# CTORY.

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breeder of pure breeder of Cots-12 P. O., bieeder of orses, Berkshire

arm, Montreal, lydesdale Horses, ad Leicester Sheep-11-1y , Bellville, Breed-hire Cattle. 11-1y

Galloway Cattle. 11- y.

and Importer of s. Southdown and s. Southdown and Berkshire Pigs. atario 11-1y Brougham P. O. d Sneep, improved orses. 11-1y.

eder of Leicester 11-Jy Breeder of Ayrshire 11-1y. dmonton, Breeders er and Cotswold e Pigs. Winner of e best Bull and five hibition," Kingston, 11-tf. e Guelph, Importer ad Hereford Cattle, ep, and Berkshire 11-tf.



LONDON, ONT., MAY, 1872.

VOL. VII. {WILLIAM WELD. Editor and Proprietor }

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GENERAL EDITORIAL.

The Season, Crops, &c. The Spring is unusually late this year. At the time of writing, April 25, ice is

still lying in front of our office window, where the sun has not shed his rays on it, and it will take another week of such weather as we have had for the past two weeks to melt it; but of course this is in the city and in the shade. The ploughs have been running for about ten days, and consideral le seeding has been done. The weather has been dry and favorable, in fact, many think too dry for the water in springs and wells, which, probably, were never lower at this season of the year, as 68 last year was so unusually dry ; no rain to speak of having fell during the summer, autumn, winter or spring. Many com-plain of lack of water, even for stock, 

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 which is very unusual at this season of the

The Fall Wheat, although it exhibited very little blade last fall, many looked with fear to the results of the winter and spring, still the young plants have come through the ordeal of spring and winter frosts much better than was ex-pected, in fact, we do not remember ever

cent. in a month, they will pay the money; sometimes they loose, but they can store and hold on to the wool at one quarter the cost that farmers can.

Wool in farmers' hands is sure to lose in weight. We have seen it badly damaged by dampness and mold, and sometimes fire and pilfering may lessen your pros-pects of gain. Our advice is to sell wool and every other crop as soon as the market is open and your crops ready for sale. Grain of all kinds is selling at prices that ought to satisfy our farmers. Cattle may not pay as well this season, as the im-mense tracts of land in the Western States out vie us in this product. They can raise corn for fuel at a lower rate than we can supply cordwood, therefore we can not but see that our lands must be devoted to ther purposes than the production of beef for the spring market. Our grass may do for fall stock, but our spring and summer beef can be raised cheaper where corn is 15 cents a bushel. That is our opinion.

Our dairy productions will be a main stay to Canada; we can compete with the Americans in this line. We have for many years advocated the extension of it is, a

Knitting Machines.

It behoves us to treat on machinery, as on everything else in our line. We make it our duty to let the farmer know the quality of the article he wishes to purchase.

But our readers look to us for information, and, as a consequence, we interd giving you our opinion in the very face of the law, which may be-as was previously threatened-put in force against us; for editors are liable for heavy damages for telling the truth, if the truth will be injurious to any one.

We wish to keep in the good graces of the ladies, and to accomplish this we must do our utmost to represent articles, if possible, in their proper light. No doubt we have often been in error.

We advertised and spoke well of the Hinkley Knitting Machine. On our first examination we were well pleased with its creditable looking appearance, but on trial it has not proven itself efficient. As far as our experience goes, we had three other orders for the machine, but refused to fill

It may yet be got to work right, and if

OHR, Galt P. O., icester Sheep and 71-10

coln and Lieicester Puslinch Township, 71-11

n, Hyde Park P. O., Leicester Sheep and 11-tf.

nporter and Breeder x Swine. 11-71

eaer or Short Horn 11-71

ead, breeder of pure

d, Breeder of Short kshire and Chester 72-3-y

rm. Oshawa, Breeder 72-3-y

LE,

BULL, aged 4 years ite. Price \$400. aged two years, color

Pigs, sows and boars, Roach's and Stone's

72-3-2 hburn.

s of Ingersoll, FIFTY D; good buildings and ply at this office. 3-1

CORRESPONDENCE.

 Anatome of the Brain

 Sout in Wheat

 Testing Seeds

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 Rouen Ducks (illustrated)

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 72 72 72 Alsike Clover. Lorge or Small Hogs..... Flowers . Summer Flowering Bulbs (illustrated). Out West..... Beet Rost Sugar... New Seeds in the North..... 

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WE have received an anonymous communication from Sarnia descriptive of a munication from Sarnia descriptive of a stump extractor. It is evidently an advertisement. If the writer wishes to have it inserted as such, our advertising columns are special to the capitalist. If they think 10 per cent can be made in a year, or 1 per bark,—Ase'r ED.]

seeing such a poor blade winter so well ; we have scarcely seen a dead blade this spring. The danger of killing is passed, and it now looks favorable for a bountiful crop.

In some parts of the country there has been a great scarcity of food for stock : many cattle dying, particularly in the north. There has been no loss from lack of food in this section ; hay here has been procurable at \$10 to \$12 per ton, but to the north \$35 has been paid. Some who could not purchase were obliged to let their cattle die. There has been much suffering among the poor, struggling families of that section. We are too thankless for the blessings we enjoy.

Wool will be the first article brought to market, and flock owners will reap a rich harvest, as the price will be unprecedentedly high. In some sections some has been purchased on the sheeps' backs. Some farmers will not sell half so readily because the price is high, but will lay by their stock for higher prices. If some were offered \$5 per lb., they would not sell, and expect to get \$6. We cannot exactly say what the price will be. We consider that the best course for farmers to pursue is not to hurry their shearing and sell before the proper time, but as soon as the market is fairly opened and the prices established among dealers. The farmers' business and the speculators' busi-

this business, which has been found very remunerative, and will be. The dairymen will buy out the grain farmers, for they have a fast hold and will maintain it. If

you have not turned your attention to it already, do so. We may be in error, but we invite any other persons to express their opinions.

Fruit has and will pay well. We can excel the Americans in raising apples that will keep, ; we have a mint of wealth in fruit, if rightly cultivated.

Timber has been and will be a source of wealth to us; planting will soon com-mence, and the sooner the better. Our old cleared lands are not worth half what they would be if we had a good growth of young timber. It fact, we believe that in nany places it would now pay better than the cropping system now pursued. It duced. should be encouraged.

To CLEANSE FRUIT TREES FROM MOSS.-Not only the musses and lichens which so generally ffect fruit trees, but the eggs of insects, may b effectually destroyed by dressing the trees in winter, with a wash composed of a saturated solation of soft soap and common salt or brine. The trunk- and large branches ought to be first scrape i with a scraper made of old hoop or any ot er implement that may be improvised for the purpose, and when all the scales of bark are removed, apply the mixture with a painter's brush, working it well in the crevices. This is much preferable to, and not so unsightly as, washing with time.  $-Gardener's Year B_ok$ .

[What is still better as a scraper to cleanse truit trees, is a beef rib handled as you would a drawing knife, it cleans the tree effectually and it will not injure the

it is, and we are satisfied about it, we will be glad to let it be known.

The Hamilton Knitter, manufactured in our own country, we regret to say Las not yet worked to our satisfaction.

The Lamb Knitting machine has given entire satisfaction to every person we have supplied with it. They will knit a pair of stockings in 30 minutes, and make them well. The worst of this machine is that it costs a larger sum than the others. We know young ladies who are making money faster by knitting than their fathers, husbands or brothers on their farms. Wo have heard of one who purchased a farm from the evenings at her Knitting Machine.

It really is astonishing to see how nicely they work. The old knitting needles will be at a discount where a Knitter is intro-

A very valuable number of Hearth and Home for April 20 is before us. Besides seve al fine engravings, and the usual good assortment of excellent reading for all departments f the household, a Supplement in this number gives an account of a four years' Libel brought against the Publishers for exp lumbugs in which the important ruli Judge Brady, of the N.Y. Supreme Co and the testimony of leading physicians. 1 advanced ground in regaid to the responsibility of manufacturers and dealers in patent medicines. This will be specially interesting, not only to Lawyers, Physicians, and Drug but to all who buy and use medicines, and to those who have been swindled by humburs. Get this number especially, either of your newsman, or send a dime and get a post aid copy from the Publishers, Orange Judd & Co., 245, Broadway, N. Y.

# Politics and Agriculture.

66

In our last issue we informed you of a very long communication we received, signed—"H. Anderson, Secretary E.M.A. S." Up to the last moment of going to press we awaited a reply from the Presi dent or Secretary, to ascertain if the arti-cle was from the Board or from Anderson alone, or from neither. We wrote one communication to the President, and our Secretary wrote another, but it appears that he received neither. In the communications to the President an offer was made to publish the article if the Board requested it. The Secretary received his letter and returned a written reply, that the communication was not from the Board, but from himself.

Now for a few facts. Meeting after meeting has been held to devise the most speedy means for our destruction. We heard that one of these meetings was to take place, and slipped into the room, in our editorial capacity, just before the business commenced. Of course our presence marred the proceedings somewhat but the above subject was the business of the meeting. James Johnson appeared to be the main-spring of the meeting, and we were threatened with a pitch down the stairs.

We have not attended any of their private meetings since, not from fear, but because our time has been too fully occupied in doing what we considered to be our duty. They have held a meeting recently, and it appears that, with their united wisdom, they have concluded to run to the Scavenger newspaper, as no respectable journal would insert their little articles, condensed into 27 columns of a common newspaper The whole thing is a Political Rig, and the Western Fair is made to stand the brunt. Johnson is to appear as deserv ing of great honor, and your editor is branded as a liar, a deceiver, insane and vindictive.

### City Progress.

This city is progressing at a rapid rate; buildings are springing up like mush-rooms. The oil refining establishments here employ a vast amount of capital and considerable labor, and the Great Western car shops have been recently established here; the Pullman Company are also about to establish their shops here immediately. The Oil Refineries are doing a great business, and the Chemical Works are progressing well. The Starch Works are also prospering. The Superphosphate Manufactory is doing a large remunerative business, and, indeed, on every side are the signs of enterprise and prosperity. We have seen many Englishmen come here and commence farming, but whatever may have been the cause, they have failed in realizing their expectations. They have not in the commencement made money by farming. But it was a great pleasure to us yesterday to visit one who is prospering....Mr. Brydges-who has leased the Carling Farm, beside the city. He has built extensive green-houses, and though he only commenced last January. his stock of plants, flowers and vegetables would do credit to those favored by years of prosperity. We have seen many Conservatories, but we have seen nothing in Canada equal to the Conservatory of Mr. Brydges, except that of Mr. Leslie. We may congratulate the people of London on having such a requisition as this Conser vatory, and we must add, that the proprietor is a gentleman, and well deserving of the success which, we have no doubt, will reward his labors. Would that we had many such men, for there is plenty of room for all such industrial projects. As the city progresses there is an increasing demand for flowers, shrubs and trees, and the facility of obtaining them will tend to greater improvement and, consequently, a greater demand.

To Mr. Henry Anderson, Secretary of East Middlesex Agricultural Soc'y.

ONCE RESPECTED SIE, -At one time our pinion of you was so high that we requested rou to be our representative at the Provincial Board of Agriculture and Arts, as we considered you, at that time, the most suitable person in East Middlesex to represent our ag-ricultural interests. You labored hard and faithfully for agriculture, and did much good, which honorable position you might still continue to occupy had you not turned to make place for Johnson, who missed the mark. But a change has either taken place in your mind or in ours. Our humble opinion is that you have descended from the position of a man. You to dare to call a person a liar ! You to talk about slandering the most popular and useful men! You to talk about honer! Your very article, signed as Secretary of an Association, is a false pretence by your own letter in our office, which states that the article was not from the Board, but from yourself. What business have you to take shelter under the name of "Secretary" when you are only acting as a private individual? What can possibly be more subthe deceitful and dishonorable than the following facts?-Shortly after the agricultural lands were sold, we met with you, and you then told us they (implying the Beard) were trying to use the money for Western Fair purposes.

The first time we met you after having penned your slanderous article, was on the Saturday following our receipt of it. The meeting took place in the bar-room of Balk-will's Hotel. We asked you if you would answer our question, and you consented. W then asked if you had not given us the above information. Your head at once dropped ; you looked right and left for your friends, and then replied that you had.

Numbers heard this conversation. Does not this look like a trap; first, to give us this information, and then to call us a liar for pub lishing it?

Again, you have often told us that we were about right in our remarks concerning John-son & Co. At one time you stated that the affairs were not managed for the interest of the farmers; that the citizens were getting the whole control, and that you had a great mind to expose the whole affair, which you could do.

Again, you are the very person that informed us of one of Johnson's remarks about us, viz., "Damn him, he is getting up a good paper !

Again, if we remember right, we believe you were one of the persons who informed us that Johnson was the person who decried our samples of seeds when we exhibited the largest number of samples of wheat that had ever been exhibited or grown by one person in Canada.

Again, you, as an individual, make a great fuss, publish an article with the attempt and desire to injure a person who had through misinformation obtained from yourself published a mistake, but who also issued a supplement correcting the said mistake, previous to your publication.

The Destiny of Canada.

This is a subject that we farmers of the Dominion ought to consider. It is not our desire to enter into party politics, but the question forces itself upon us : are we to exist as a nation? Is our country to prosper? Are we as a people, to be self-dependent? If so. our only hope, the only foundation, physi-cully speaking, must be agriculture.

We leave to individuals to form for themselves opinions in regard to religion or poli-tics; we take the side of no party; we have built on agriculture alone. We have not to built on agriculture alone. We have not to our knowledge, offended either sect, yet some of both political parties have taken off-nce.-Our object has been the toommon gord, yet some of those we have labored to serve have been our enemies. Our opponents are not a majority of the class we labor to serve, but a large and powerful number; men who. strange to say, are unable to stand up boldly in the light of the sun and give their reasons for their opposition, but strike in the dark. We have not spared our means or our labor to promote the welfare of agriculturists. who are the mainstay of the country. Why, then, should any oppose us and strive to injure 118 7

Let our farmers know the position they should hold in the country. Let there be no division among them. They have the power, and let them maintain it; no criuging or fawning to any other class. Let the interests of the far mers he looked to. Expenditure of money should all be for the promotion of agriculture hut has it not rather been extracted from th farmer ? The very foundation of our pros perity-the means of our agricultural infor mation-has been forced to bear the most un just and oppressive taxation. We have paid for the railroads, paid the high salaries o officials, paid for the beautiful and costly post offices in the cities, and, after all, this double tax is imposed on agricultural papers. We would ask, what has ever been

done to aid the testing and dissemination of seeds ? Have not attempts been made to check private enterprise and enchain the whole agricultural community in submission to political purposes. For what other purpose has this Minice expenditure been incurred The work had been undertaken by ind vidual enterprise, without expense to t' country. Why, then, this expenditure? die ever a farmer ask for it ? did any agricultura society or body of farmers commend it ? 1 must be looked on as a clog and a che k t improvement; as a wrong to private enter prise; as an unnecessary squandering of put lie money ; as another place prepared for the reward, not of honest industry or de-ervin ment, but of partizan intrigue and favourit

# Gleanings from our Exchanges.

PROSPECTS OF THE SEASON -Bobcaygeon, the fall wheat never looked better than now .-A greater breadth was sown last fall than in other years. The lakes can hardly be open for navigation in less than three weeks. Great fears are entertained that there will not be water enough to carry down timber and logs from the north. Hay is selling at \$29 per ton.-Toronto Mail. SUGAR BEETS .- The culture of sugar beets is rapidly spreading in the United States. Not only is a perminent market for them about to be established in the beet-sugar factories now springing into existence, but they are found to be exceliently adapted as food for stock .-Milk cows, fattening oxen, sheep and hogs all devour them readily and thrive on them satisfactorily. The climate is adapted for them, and in their culture no method or implements other than those needed for the ordinary culture of turnips, are required .- Hearth and Home.

five minutes sooner than any of the other varietics, and is by some preferred as a baking potato. Rearles and No. 7 are similar in yield, quality and habits; both give very large and uniform tubers (have seen a Peerless weigh 51 lbs.,) and both as winter and late table varieties, are of the best quality. They do well on most soils, and may be planted quite late with success. A year ago we turned over the soil and planted Peerless the last day of June. They yielded over 250 bushels to the acre, though the ground was not in very good condition.-Hearth and Home.

### A Good Cheep Paint.

Take eleven pounds of unslacked lime and one gallon of boiling water, and stir it into a thick pudding; then add two gallons of boiled linseed oil and one quarter of a pound of white potash dissolved in one pint of boiling water. Mix thoroughly, and if the oil and potash do not unite, add a little more potash water, enough to cut the oil perfectly, but no It will look thicker than common more. paint, but will spread easily with a common paint brush, and will wear excellently well; it has all the appearance of a superior paint, while its cost is less than half as much. As a paint for barns, out-houses, fences, &c., it is unequalled.

### **Public Agricultural Matters** ACROSS THE LINES.

A large meeting has been held in regard to he State Agricultural Colleges, the desire being to obtain more aid, more land, and more newer. There are some decrying the under-We clip the following from Moore's taking. Rural, which should have consideration at the present time, when so much public money is eing expended, or about to be :

"Buying and distributing home-grown seed buying and distributing home-grown seea free, on the part of the Department of Agri-culture, ought to cease. There is neither excuse for it nor sense in it. If, through Government gents abroad, the Department can secure new eeds or plants, not heretofore introduced in this ountry, and which have, or are supposed to have, a distinctive or especial economic value have, a distinctive or especial economic value bere, their introduction and dissemination is ex-cusable. But there is no excuse for the policy which buys new seed corn, wheat, or potatoes of lomestic growers, and distributes it free to the few who may be favored by the Department."

# Inquiries.

How is Hungarian Grass to be treated? how much seed is sown to an acre? would plaster e of service to it ? what is the time for sowng, and when may the crop be fit to cut for J. CARLON. ay ?

ANSWER.-We would not recommend you to sow Hungarian Grass. It must not be sown till June, when danger of the spring frost. The consoquence is that it is late in the season before it can be cut, and then it is saved in a dirty state. We recommend West-ern Corn in preference, as we have tried both. The corn can be better saved, it is better feed, and produces more abundantly.

# 15 We give t in our column

warded to u Society. We our readers t not belong to a township in land, over a We think so near the citi by their dists the very fou perity. It i leading men with this ide established i well aware t the way : it money to ge how tardy an wealthy farm them. Mone more from l but many w for any publi do so by the willing, labor their time a lishment or should be su work increa spirited mise compelled to to aid such. most profita not at this p thousand that or adaptabili monest cere raised in Ca peas, barley,

These Soc to seek for k who will ve many a sting the bareface the attempt enterprising his best to this will hit to the subs that class do Some of you those are th namely, the of have ne enough to any kind; t knowledge o The Secr

for his kind Societies in perhaps the wish you pleased to accounts of

A farmer's house should always be retired enough from the main thoroughiare, to escape the noise and dust incident to trave', and this gives room for the exercise of taste in cultiva-

Come, come, Anderson, no more hunkersliding! Take off your horns and throw away your brimstone coat, and do not attempt to cloak your laudation of Johnson, all for political purposes.

Finally, we have reason to believe that you have, for some unknown cause, allowed yourself, perhaps blindly, to be led to such a course. We even doubt if you have willingly done it, and we are quite sure that the time will come. if it has not already arrived, when you will see that this very step you have taken is not for the benefit or advancement of the far-mers' interests, or of those of the Western Fair, but really for political ends, to strike a blow at independence, and help to aid and vindicate your late co-operation with a set of party politicians. It has not been our desire to build up or throw down either of the great political powers, but to establish more united action among farmers, and to have their interests better looked after.

A farm, with shade and fruit trees set around the house, will sell for two hundred to ne thousand dollars more than if there were none; while the girls will have more beaux. and the boys be less likely to get the mitten.

An exchange says that rusty straw is one of the most dangerous blood poisons; it induces distemper, it vitiates the blood, reduces the condition of the animal, takes away the appe-tite and opens the door for colic, skin diseases, swellings and fevers; it is only fit for litter.

### The Bresec's Potato.

From my experience, I arrive at the following conclusions, viz .-

Early Rose requires little seed, two to four bushels being sufficient for an acre.— It produces more small ones than some other varieties; as it tends to grow out of the ground, it shou'd be well hilled up; it is not good for table use till ripe. It is better as a late potato than any early variety I know. The Prelife The King of the Earlies is the earliest it is not good for table use till ripe. It is better as a late potato than any early variety I know. The Prolific cooks about ful.

ISAAC COLBURN, Corresponding Secre-tary of the Loami Farmers' Club, Sangamon County, Illinois, will accept our thanks for his kind letter, informing us of our election as an honorary member of the We forward our paper as in-Club. structed.

### THE WAY TO SUCCEED.

Fortune, success, fame, position are never gained, but by pioualy, determined v. bravely sticking, living to a thing till it is fairly accompli he. In short, you must carry a thing through if you want to be anybody oranything. No matter if it does cost you the pleasure, the No matter in t does cost you the pleasure, the society, the thousend pearly gratifications of life. No matter for these. Stick to the thing and carry it through. Believe you were made for the matter, and that no one else can do it. Put

### TOWNSHIP

A meeting Mrs. Wood's Edward Be Messrs. Mc son. Pratt, Y and others.

Mr. Side cussion, viz. with the fe feel sorry th before you to-day, "Ba that there a experience, subject that fit that ma cussion of a (and for w) will endeav tribute to o at this sub parts, "Ba the first acc dates as far when we re Egypt. and Betidehem vest." an i cas ern cu Britain I o cultivated the last te ground ov

### Farmers' Clubs.

We give the following a welcome space in our columns. It has been kindly forwarded to us by the Secretary of the Society. We think it but right to inform our readers that this Hamilton Club does not belong to the city of Hamilton, but to a township in the County of Northumberland, over a hundred miles from the city. We think some of our cities, or farmers near the cities, might be taught a lesson by their distant friends. These Clubs are the very foundation of agricultural prosperity. It is our impression that some leading men in Canada will be impressed with this idea, and Farmers' Clubs will be established in each township. We are well aware there are great difficulties in the way: it requires time, patience and money to get one established; and oh ! how tardy and penurious are some of our wealthy farmers ! No appeal will affect them. Money has been heaped upon them more from luck than from management ; but many would never expend one cent for any public purpose unless compelled to do so by the strict arm of the law. Those willing, laborious gentlemen who devote their time and abilities to aid the establishment or maintaining a Farmers' Club should be substantially encouraged. Their work increases the value of the poor spirited miser's property, and he should be compelled to dole out an unwilling dollar to aid such. Township Councils might most profitably encourage such. There is not at this present time one farmer in one thousand that knows the name, or nature, or adaptability of one quarter of the commonest cereals or roots that are even raised in Canada, no, not either of wheat,

peas, barley, oats, or potatoes. These Societies teach us; they cause us to seek for knowledge; it is only the best who will venture to impart knowledge; many a stingy old cadger will even have the barefaced audacity to desire to ridicule the attempt of some poor, younger, more enterprising man than himself for doing his best to give information. We hope this will hit some ; but they do not belong to the subscribers of the ADVOCATE, as that class do not take agricultural papers. Some of you may profit by these remarks ; those are the persons for whom we writenamely, the Public. The class we speak of have never had spirit or enterprise enough to take an agricultural paper of any kind; they know more than the united knowledge of the country.

The Secretary will accept our thanks

Canada (especially in the Province of Ontario) has so increa ed that it has become one of our staple crops; the six-rowed being the principal variety cultivated in this country. In regard to the different varieties of barley, Professor Law divides the cultivated barley into two distinctions-the two-rowed and sixrowed. Lawson describes twenty varieties while the museum of the Highland Agricultural Society contains specimens of thirty or more. The classification of balley by the ear is of three kinds-the four-rowed. termed in Britain Bere or Bigg, the six-rowed, and tworowed. Of these, the Bere or Bigg was that which was mostly cultivated about a century ago, but more recently the two-rowed has almost entirely supplanted it, and is now the most commonly cultivated barley in Britain, the six-rowed being rather an object of curiosity than culture. In classifying barley by the grain, there are only two kinds, Bere or Bigg, and barley. In the bere, the medium line of the bosom is so traced as to give the grain a twisted form, one of its sides appearing larger than the other. In the bar ey the line passes straight, and divides the grain into two equal s des, whose shortness and plumpness give it a character of superiority. The bigg has long been recognised in Scotland, and a two-rowed variety under the name of common or Scotch barley was for a long time cultivated ; but several of the English varieties have been naturalized, and show a brighter and fairer color, plumper and shorter grain, malts much quicker, but is less hardy and prolific that the common barley. The great bulk of barley is used for malting purposes, and is excellent food (when chopped) for fattening cattle and pigs, and also for horses when boiled, and more economical (considering the present prices of peas or oats.) Its fattening properties are ten per cent. more than that of peas, equal weight, while its nutritive properties are the same .-In speaking of the cultivation of barley, ] would say, in the first place, that a loam soil is the most suitable for its production .-Although barley is not so hard on the soil as some of the cereals' yet it requires a clean, rich soil, and land that has been made fit for a turnip or other hoe crop will give a greater yield than when sown after any other cereal. It does not require a deep seed bed, but it must be thoroughly pulverised, or you need not expect a large return. In preparing the soil for barl y (if sown after a hose crop), the ground should be ploughed once in the fall, so as to have the benefit of the winter's frost ; it should be ploughed in ridges the proper width for sowing ; if sown on wheat or oat stubble, plough as soon after harvest as possible, and harrow after to kill all weeds. If not tich enough, put on a good coat of manure just

previous to ploughing again, before frost sets in. In spring, when the land is in a fit state for working, and just before sowing, the ground should be ground should be gone over with the cultivator, crossing the furrows, and single tine with the harfor his kindness. There are two other Societies in Canada—probably more— perhaps they will keep us posted. We wish you every success, and shall be season; if spring opens early, and continues fine, without frost, it might be sown in the last week of April, but generally I would not sow until the 5th or 10th of May, or even later, as the young braird is very tender. and when early sown is very apt to get nipped with frost, and be the cause of reducing the increase of the crop. There is much difference of opi-nion as to the quantity to be sown per acre. It sown carly, less seed will be required than when sown late, two bushels per acre being sufficient at any time, but I would rather sow 14 than 2. A judicious selection of seed is an essential point to insure a good crep. We cannot be too particular on this point. If we would clean grain intended for sced, as we do that for exhibitions, we would not only have a better quality, but an increased yield. If the seed bed has been prepared as I have stated, a single time of the harrows each way will be ail that is required to cover the seed before an that is required to cover the seed below rolling. If grass seeds are to be sown, the ground should be rolled immediately after sowing, but if clay soil, the seeds should be harrowed in with light harrows, and the rolling left till the braird is well through the ground. I might say that I have found, from three to four years' experience, that from 100 lbs. to 150 lbs. of salt sown to the acre will have the effect of stiffening the straw, and is of great benefit where barley is sown on rich clay soil. Gentlemen, having given you my knowledge about barl-y, and my small experience in regard to its cultivation, it is now open for

as that gentleman had touched on most of tl e subjects connected with barley that he could think of. He thought the six-rowed variety was most suitable for us, chiefly on account of our market-the Americans liked it best. He thought the two-rowed barley yielded best especially on clay soils, but that the six-rowed ipened earlier, and was not so easily discolored if we happened to have showery weather dur ing harvest; that a dry, harry soll was best for barley, as it was easily hurt with wet; that he thought it did best either after a summer fallow or a root crop that had been well ma nured, with the ground well ridged up in the fall, in ridges say from 15 to 18 feet wide, then in the spring cultivating across the ridges. two or three days before sowing. He would not sow too early, as barley was a tender plant, and was apt to be hurt with frost if sown early .-He had found a great advantage in dressing the ground for barley, by drawing out short well-rotted manure even during winter or early spring, and spreading it over the ground, the cultivator mixing it with the top soil ; he had found it beneficial to apply plaster to barly it came up (especially if the season was dry at the rate of 100 lbs. to 150 lbs. to the acre He thought salt would be an advantage ; he ad not tried it as yet, but intended to try four or five hundred weight of salt to the acre oh his barley this year. Barley was sown to early on a clay soil ; if the ground was lumpy it was apt never to come up through the ground at all. One year he sowed his barley the next day a heavy rain came on, and one-half of the barley never got through the ground, it was baked so hard. He though the ground ought to be well prepared before shwing barley, made mellow on the top, not the deep, as barley drew its nourishment from near the surface; he thought that to apply about 150 lbs. of superphosphate of lime along with the barley, harowing all in together, would be a great advantage. He had seen bone dust applied at the rate of six buskels per acre on part of a field of barley. That part yielded ten bushels an acre more than the rest of the field where no dust was applied Mr. Bourn said he had no experience with tarley; he had only grown one crop, and found it did not answer on his light soil; he thought it did best either after fallow or else after a root crop; he would prefer it after a root crop on a fertile soil; he thought the land required to be made very fine for barley. more so than for wheat; he thought spring wheat would do well on ground that was too rough for barley; he saw that barley did not do we'l on light, sandy land; it would dry up and come to nothing.

Mr. Francis Aitchison said that of all the cultivated grains there is, perhaps, none which comes to perfection in such a variety of cliinates as birley. It is found in most parts of the habitable globe, and maintained itself in spite alike of tropical heat and draught, and the cold of regions bordering on the frigid zone. Linnæus found it growing in Lulean Lapland, in latitude 67°; in genial climates, such as Egypt, Barbary and the south of Spain, two crops of barley may be reaped the same year, one in spring from seed sown the preyear, one in spring from seed sown the pre-vious autumn, and one in autumn from a spring sowing. This explains a passage in the Bible (Exod. is. 31), where the effect of the hail which desolated Egypt in consequence of Pharaoh's refusal to let the children of Israel depart is thus described :---"The flax and the backet ward sufference the backet many the barley were smitten, for the barley was in the ear and the flax was bolled but the wheat and the rye were not smitten, for they were not grown up." It is agreed among commen-tators that the event thus narrated took place in the month of March ; the first crop of barley was therefore nearly ripe and the flax ready to pull, but the wheat and rye sown in spring were not yet sufficiently advanced in growth to be hurt by the hail. Barley grows best on light, fertile soil, well cultivated and free from weeds, which are more injurious to it than to any other grain; it should, therefore, follow a hoe crop if possible. Root crops require a well-pulverized soil, and so does barley. In Scotland, it is almost always sown after turnips, which have been either fed off by sheep or drawn to winter quarters for cattle food. This grain does well on heavy soils, provided they are worked and stirred until a proper tilth is secured; but this, of course, increases labour just at the busiest season of the year. But it should always be borne in mind that it is very poor policy to borne in mind that it is very poor policy to sow barley on land not properly pulverized. Barley grows and ripens with astonishing ra-pidity; nevertheless, it should be got in as early as the state of the ground will admit, and should be harvested before it is quite ripe, as it quickly injures if allowed to stand

too long. When harvested early, the grain is of superior quality and less liable to shell out and be wasted. The grain of barley very much resembles that of wheat in its composition, but it contains less gluten and more starch and sugar, as the result of which it is less nutritions, though equally wholesome. Barley is quite as exhaustive a crop as wheat, if not, indeed, more so; it is, therefore, a mistake to summose that soil need not be in as good a condition for it as for wheat. Barley will do well in a shallower soil than wheat, because it sends its root very much along the surface and not to a great depth.

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Mr. Pratt said he thought he could add but little to what had been already said, as those who had spoken had pretty well exhausted the subject. He would prefer the two-rewed to six-rowed barley. if it were not for our market : the Americans were our chief buyers, and they preferred the six-rowed barley, and we must grow what suited them, though in the front of our township we could grow five or ix hushels an acre more of the two-rowed han of the six-rowed ; but it was sometimes difficult to dispose of it. With him, if barley was sown after roots, it grew too strong and of his ground thus with the hopes of having a good crop and a fine sample. but was dissapnointed; it always grew too strong. He generally sowed his root land with wheat then plouched his wheat stubble in the fall and cultivated, and sowed with barley in the spring. In this way he had good crops of harley, and a good sample. If he was going to manure land for harley, he would do it in the fall before cloughing; it would then get well mixed with the soil, when it had the neessary ploughings, harrowing, and cultivating. When sowing two-rowed barley he used from a hushel and a peck to 14 bushels of seed to the acre; of six-rowed he used about two hushels of seed to the acre. He had never tried salt on his barley, but thought he would this year, as he heard that salt helped to stiffen the straw of harley.

Mr. Young said in his experience with barley, he greatly preferred the two-rowed va-riety, as it did for the best with him, and he had found no difficulty in selling it and getting the highest price going for barley. On one occasion in the same field, he sowed both the kinds of hatley, and he got from 8 to 10 bushels an acre more from the two-rowed than from the other-kind. Thought the two-rowed did best on clay soil. With him if sown after roots, it lay down and lodged hadly. He thought that about the 24th of April was the best time to sow barley. If he manured land for barley he would either manure it in the fall before plonghing, or else on the ton altogether. He ploughed his land for harley in the fall, and then cultivated it in

the spring. Mr. Bullerby said so much had been already said that as far as he was concerned he would he brief in stating his experience in the culti-vation of barley. His idea was to plough his land well in the fall, and give it a good coating of manure if he had it and the land required it. He then gave it a light ploughing say three inches deep or so, the spring plough ing into broad lands across the fall ploughing: he then cultivated it. especially if there had been rain after the cross ploughing, this making the land fine and level. No matter how fine the weather might be, he never calculated to sew barley before the 8th of May, and when the weather was not favorable ha was ometimes as late as the 15th to the 20th of Mav. He had never been troubled with spring frosts; if barley gets any check it is very detrimental to the cron. It very seldom recovered a severe check, though sometimes it

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wish you every success, and shall be pleased to hear of your progress and see accounts of your discussions.

TOWNSHIP OF HAMILTON FARMERS' CLUB.

A meeting of the above Club was held at Mrs. Wood's Hotel, on the 15th ult.-Mr. Edward Bellerby in the chair. Presen --Messrs. McDonald, Bourn. Bellerby, Aitchi-son, Pratt, Young, Sidey, Burnham, Medcalfe and others.

Mr. Sidey introduced the subject for discussion, viz., "Barley, and its Cultivation," with the following remarks :-Gentlemen, I feel sorry that you have chosen me to bring before you the subject selected for discussion to-day, "Barley, and its Cultivation," knowing that there are some more completent, by longer experience, and better qualified to treat this subject than I am. But considering the bene-fit that may be derived from the proper dis-cussion of any subject pertaining to forming (and for which this Club was organised), 1 will endeavor to do what little I can to contribute to our mutual prosperity. In looking at this subject, I see it is douded into two parts, "Barley, and its Cuitivation." About the first account or mention we have of barley dates as far back as the time of the Exodus, when we read of the barley being smitten in Egypt, and we read of Rath that she came to Betichehem at the "beginning of barley harvest." an i no doubt it is indigenous to that cas ern count y. How it found its way to Britain I cannot say, but it has long been cultivated there to a great extent. And for the last ten or twelve years, the extent of ground over which barley has been sown in

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Mr. A. McDonald said that he thought he could not add much to Mr. Sidey's address,

your discussion.

A vote of thanks was given to Mr. Siday, for the very able practical manner in which he had introduced the subject. The next meeting of the Club was ap-

pointed to he held at Mr. Bevan's Hotel. Cobourg on Saturday, the 13th of April, at 2 o'clock p. m.,-the subject for discussion to he the cultivation of Turnips, Carrots, and Mangold Wortzels.

Mr. John Pratt to introduce the subject.

ITALIAN BEES IN UTAH .-- A Utah corresnondent writes that there were a number of Italian bees imported into that Territory last spring, and that they have thus far proved a decided success in many instances, one hive producing four to six swarms, and 100 pounds of honey and upward. There is also a lively interest noted in relation to the importation of improved breeds of , horses, cattle, sheep

### Corn Fodder.

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Mr. G. Buttery. President of the West Middlesex Agricultural Society, called in our office to procure some seeds, and in a conversation which ensued, Corn Fodder was spoken of. We both agreed that not one-tenth of the farmers of Untario know the value of corn for soiling, nor its proper mode of cultivation and curing. He appears to understand the subject better than we do.

All who have tried corn-raising and know anything about it, know that it will spoil if placed in a mow or stack, unless in very small quantities. Mr. Buttery intends this season to put it in his harn, and lay an alternate layer of straw and corn stalks. We believe he will succeed in keeping it in that manner. The best way we have as yet found is to set it in large, round, or long stooks, in the field or near the harn yard. All that have raised it also know the difficulty of making the first armful stand, when commencing to make the stook in the field. Mr. Buttery uses a pole with two legs, one end projecting and the other lying on the ground through the projecting end, probably about two feet from the end, he places a cross bar through the hole, so that it can be easily inserted or withdrawn. This enables the gatherer to set up the corn stalks in each corner of the fork, where it will stand firmly. The cross bar is then withdrawn, and the pole is easily picked up and carried to the place where the next stook is to be made.

Mr. Buttery is no patent-right-man; all can use it that raise corn for fodder. We presume we may class those stock-men who do not use corn as the parties that take no agricultural paper, and who deserve to have their farms bought by their neighbors, because they think they know all about farming.

Mark these words : those farmers who have commenced using the Western Corn for fodder, are the persons who will have the control, and who will buy out the less-informed class. It may not be in one or ten years, but most assuredly, "knowledge is power," whether in farming or in any other business. Farmers who take no paper devoted to their business, are running blindly, or are led by political influ-They are not independent yeoences. Papers may be and often are in Thousands of things are printed men. error. that are of no use, and are sometimes worse than useless, but such are apt to be corrected. No paper can stand on false- following, through this paper:-

and political power has been. is, and will he the ruler of the cities. Therefore. we say that we as agriculturists of the Dominion, should build up our position and rights on agricultural grounds at once-We well know that in this city politics rule the agricultural affairs, to their great injury. Look at the Toronto Agricultural Exhibition-a failure, and that at Montreal, the best in Canada for the arts, scinces and floriculture, but the seed and implement department is far worse than that in the smallest townshin show that ever we visited in Western Canada. Draw your inferences: are the cities to rule the farmers, or are farmers to be independent? Decide !

## Western Fair or Political Matters.

Being desirous to ascertain how much Board of the E. M. A. S. are rethe sponsible for the allegations against us in Mr. Anderson's letter, we have addressed the following letters to the Vice-President. but as yet have not been favored with a reply to either:-

# London, March 21st, 1872.

G. NIXON, President-DEAR SIR,-I have received a manuscript rom the Secretary of the East Middlesex Agricultur I Society, intended for publication. I shall be pleased to insert the document if it is snall be pleased to insert the document if it is with the wish, desire and consent of your Board. If you or the Board are not aware of it. I would most sincerely advise you, for the interest of the Society and the position of its Directors at which the members of the Society may be admitted, and have the document fairly Yours respectfully, W. WELD. discussed.

London, April 13th, 1872.

To the President of E. M. A. S .--

DEAR SIR, -- I have been impressed that some of the controllers of the Western Fair, will which your Association is connected, hav acted in a most injurious manner towar's the interests of the agricu'turists of this Dominion interests of the agriculturists of this Dominion and more particularly the interests of this county, and that the Western Fair, as it has been conducted, will result in more injury than benefit to this country. I should be happy to give you explanations at a public meeting, or to your Association, if the public might be ad-mitted at any time. I am willing to be conmitted at any time. I am willing to be con-vinced if I am in error. It is not my desire to check any progress in agriculture, but to aid Yours, &c., W. WELD. it in every proper manner.

Having had, as above stated, no reply we again address the President in the

success. and are willing to aid him to the best of our abilities. The shove was sent with last month's issue

to most of the members of the East Middle. sex Agricultural Society, who get the paner in this city. Mr. Saunders calle lat the office at the time the papers were beingnrinted.

Some are attempting to make a grea handle of this also. We are always ready to correct an error, however trivial it may be .-We do not acknowledge that this opposing power is right, or that we have been in erro in our opinion. We gave our information from what we believed reliable sources, and only such as we believed to be correct at the time of publication.

# Soeds, Seeds, Seeds!

We hasten the publication of this issue to prevent our subscribers sending us any more orders for some kinds of seeds this Our stock in many varieties i season. already exhausted : in No. 1 McCarline Wheat, 24 bushels more than we can sup n'v are ordered from one section alone .-There is a similar variety offered us under another name, but we refuse it, a we are not sure about it. al'bough it could be procured for one quarter the cost of the genuine article. The King of Earlies and some other varieties of potatoes are exhausted; Early Providence Pea also.

Orders for more than our original stock are lying unfulfilled : orders far in ad-vance of our stock. The Italian rye grass s run out, and the King of Swedes is loubly exhausted.

We have several varieties of potatofeld and carden seeds, and a choice selec tion of flower seeds-we think sufficient to supply all the demands we shall have in this line.

# To the Ladies.

Hot-houses, conservatories and even hot neds on the farm are like angels' visitsew and far between; and we know ful vell that even if they were there, farmers vives and daughters have other work to lo than attending to the horticultural department. Still many of our lady friend tre extremely fond of flowers, and bestow a good deal of time and trouble on their lower garden, and frequently meet wit reat disappointment in having all their hoice plants killed by f ost. We our elves have suffered many times from the June frost, and consider that the safest und best time for sowing seed of all choice or delicate plants is about the Qaeen' Birthday for out-of-door culture.

We have now received our imported tock of seeds and bulbs from Germany,

## Sun Flowers.

These flowers are probably the most useful kind you can plant at this season; disease is marching onward. There is no absorbent of the dangerous, sickening gases equal to the sun flower. We would recommend all of you o plant some in localities where poxious gasses rise-about sewers, or where any decaying vegetable or animal matter is to be found. If von regard your health and have impure air bout your dwellings, from whatever source rising, we would strongly recommend you to ant sun flowers.

Designing and deceitful persons have been speaking of us as if we had been opposing the Western Fair. We issert that such an accusation is without inv foundation. We have not opposed the Fair, but we have opposed and will continue to oppose any perion prostitutng an agricultural institution for the service of persons or parties who are not 'avorable to the agricultural interest. Our minion is that our agricul ural affairs should be conducted for the benefit of agcultural purposes and not for party pur-

# SOW CARROTS.

poses.

Farmers, sow carrots plentifully for reeding your stock. They are a cheap and an excellent food. They are said by practical farmers to be more conducive to the good health and thriving condition of arm stock than any other food. The Belgian carrot is, above others, a very arge cropper.

HINTS TO ORCHARDISTS. - Be very coreful to eep your trees clean and free from worms, overs and rough back, if you ever expect to overs and rough tank, it you ever expect to nake anything from your orchard, and no branch of farming is of more profit or benefit than the fruit to tion, if well managed. Wash every spring or fall with strong soapsude scrap-ing off the rough bark with an old scythe or ther instrum ent.

HORSES WANTED .- A subscriber writes to asking if ve can precure for him or put i'm in the way of securing a pair of horses or pares well-matched bay or brown, sound and 'kind trivelling about 34 minutes-not less, road sty'e, about 15 or 154 hards, and to weigh not less than one thousand pounds. Or a would huy a single herse of the same style nd description as the pair wanted. He must esmoothly built and an easy rider. Any of our readers having a pair or a single ho se anwering the above descriptions will be good enough to communicate with us-ADV.

AN APRIL SNOW-STORM. To-day, the 15th, the month of April ends the first half of her course, and we have a glorious, old fashioned snow storm. "What a horrid climate !" Grumbler exdurance to north, and ness to out hope that followed b

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Farmer advi e on advice has are so apt becomes 1 spare some as well a easy way farms, an We do n acres of b that are y when clea you, in ad in variou will be of and belts be to be price, and sale, it wi self and fa shading j storm, or from the than the occupy. the fact increasing stripped of ments it and this a increase v As an ins forests an following paper :rapidly m the consu numerous has been ra'ted ou season w boards. 000,000 Williams years, we 3,000,000 sumption for many tains in t of every

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hood and deception for seven years. Every farmer should take one agricultural paper or more.



From Mr. Buttery's description we give our illustration in the above cut, the utility of which any one will see who has ever raised corn.

### A POSER.

In the above information there is much of value to the farmer and wealth to the nation. Let us ask a question or two :- Is there a president, director, secretary or member of the East Middlesex Agricultural Society who has ever voluntarily given such useful information to the country ? We have watched the Cana la Furmer and the Ontario Farmer for such, but in vain. We should be happy to be informed if either East Middlesex (which means the city of London), Hamilton, Toronto, Kingston, Montreal, Quebec, or St. John's have given us such valuable information as the above cut represents, or even as much as is given in this issue of our journal, from ruralists, such as "The Farmors' Sr on Horse," "Doet Root Sugar," and "Corn Fodder."

To MR. G. NIXON, President of the E. M. A. S.-

SIR,

Should your Board desire the publication of Mr. Anderson, your Secretary's article, and send us word to that effect, we will publish it in our first issue succeeding.

## Supplement to Farmers' Advocate for April.

[CORRECTION.]

In the first article on the 35th page of this volume :

The voice of the meeting was not taken by : The voice of the meeting was not taken by a vote or resolution, but from the remarks of the members and President we were led to make those statements. We have since been informed that the price of the land sold was \$5000; we a'so received information from the Secretary of the Association to the affect that some wished the Association to the effect, that some wished to use the money for the Western Fair.

From a communication since received we understand the Western Fair was not originated for the purposes to which it may have since been applied. We have seen an explanatory document which shows that power had been granted to the Board to dispose of the land.

We return our sincere thanks to two gentle-men, Mr. W. Saunders, now President of the Western Fair, and Mr. R. Walker, who very kindly called at our flice, and in a most gent e-manly manner explained a me of our mistakes. many manner explained s me or our initiakes. There are some other little inaccuracies in the article alloded to, but from press of business we may have allowed proof sheets to go without receiving that a tention they des aved, or perhaps some things might have appeared differently.

These things are below the heighty of These things are below the heighty of this and other offices. Oity power must his desire is to conduct the Western Fairfor the his desire is to conduct the Western Fairfor the his desire is to conduct the western Fairfor the parties of the soundry. We wish him spirits of turpentine.

and to give you an opportunity of trying them yourselves, we have determined) on the receipt of 5c. to pay postage, to present to the wife or daughter of every paid up subscriber of \$1, who has not previously received a prize, three packages of choice flower seed, you to select one varie y of seed or one bulb from the following list, or from the flower list in our April number.

Choicest impo ted German Flower Seeds. Asters, 18 varieties, 1 seed costs . . 15 ct Stocks, 16 " 2 " Zenias, 12 " 2 " Coxeombs, 12 " 2 " 15 × 14  $\begin{array}{c}
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 .15 \\$ 2 " Busans, 10 " 2 " Pansies, 12 " 2 " Everlastings, 10 varieties . 15 . . If your orders i clude bulb, roots, or the

Floral Guide, send five cents additional for postage.

In the above parcels we have place from one to three seeds of the different varieties. Thus you will be able to select such as you prefer.

CURE FOR SHEEP AFFECTED WITH WORMS IN THE HEAD .- From Mr. T. A. Selby, Parkhill, we are in receipt of a communication in which he states he saw sheep having this disease effectually cured by pouring down the nostrils of the ani-

mals affected a very small quantity of the down to the ground, loaded with rich i fruit. It gives strougth and power of rp-

laimed, as he crouched in a door-way for shelter. "What a glorious day !" was our only reply, as the thick covering of snow gathered fast on our cap and coat, and we looked forward to the abundant crops of wheat and fruit that are in store for us.--The snow is not only a thing of beauty and joy to the hearty boys and girls of our healthy and happy country; it is also a source of wealth; it is a sure protection to all vegetable life: it preserves our winter wheat; it adds largely to the productiveness of our soil; it is a mantle kindly thrown over the earth in this northern climate to keep within it somewhat the heat it imbibes in summer and fall. Covered by it, the roots of our grasses and other plants in the ground are uninjured, and are ready to start into luxuriant growth as soon as the earliest rays of the spring sunshine and the first gentle drops of rain tell that the winter has departed. The snow is a manure for the soil; it brings with it from the atmosphere elements that enrich the ground. Every old-country farmer knows with what certainty the winter of hard frost and heavy snow is followed by a very heavy harvest, blessing the husbandman with an abundant increase. The same rule holds good here. We have no wish for a warmer climate. Our-cold, hard, bracing weather fills the farmers' purses and the merchauts' grain stores. It makes our trees how ing, only so sung L top and I them in of old co ing wax. grafis ar coh ma g rdled. thus trea I lost m Asap kill the i py off t it will ta thought 1 exai and I to inc es ir were alu This which is gi died i tireej l

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TORM. onth of April ourse, and we d snow storm.

durance to our brave, hardy sons of the north, and richer bloom and greater freshness to our daughters. We have ever, hope that this hard, cold winter will be followed by an abin lant harvest.

"WOODMAN, SPAKE THAT TREE !" Farmers ! we would give you a word of advice on the subject of trees. Similar advice has been given you before, but we are so apt to forget advices that repetition becomes necessary. Always in the bush spare some trees for shade and ornament as well as for future use. It is a very easy way of enhancing the value of your farms, and that, too, without expense .-We do not in an merely allowing some acres of bush to stand for use in the years that are yet to come. This all farmers de when clearing their farms ; but we advisyou, in addition to this, to let trees stand in various parts of the farm where they will be of most service for shelter-clumpe and belts of trees. If ever your farm be to be sold, it will bring the higher price, and if it be not ever offered for sale, it will be the more valuable for your self and family. A belt or clump of trees, shading your cattle from the heat or the storm, or, it may be, sheltering your crop: from the north wind, will pay you better than the culture of the little place they occupy. We must also take into account the fact that timber will be continually increasing in value, as the country become stripped of its forests. In the older settle ments it is now getting scarcer and dearen and this searcity and increased value masincrease with the increasing population .-As an instance of the rapidity with whice forests are disappearing, we give you the following extract from a Pennsylvania paper :--- "The forests of Pennsylvania are rapidly melting away. For ten years past the consumption of timber to supply the numerous sawmills of Williamsport alone has been immense. The amount of log ra'ted out of the boom for the present season will cut over 215,000,000 feet of boards. It is safe to assume that 300,-000,000 are annually manufactured at Williamsport. If we go back for ten years, we have the enormous aggregate of 3,000,000,000 feet. That this fearful consumption of the raw ma erial can continue for many years is impossible. Our mountains in ten or fifteen years will be denuded of every pine tree."

# HEALING GINDLED TREES.

Take strips of good thrifty grown wood cf the last year's growth, cut in suitable lengths, and fit them nice and snug into suitable places cut into the live bark, something like graft-ing, only my slips are cut square, and are set

the early peas, but I think about three days ater than Carter's. As the ha Im grows only 3 or 10 inches high, it can be sown in drills 12 to 15 inches apart, and the yield is immense. McLean's little Gem is more excellent than either of the o hers, and is specially to be commended for family use. It is dwarf, green in color, wrinkled and fairly productive.

These three sorts make a very good list of early peas for family use; for market, I would omit McLean's.—Country Gentleman.

# THE SWEET PEA.

A skillful cultivator of this flowering plant says that if properly grown, it wil. continue in bloom for months; that foilure arises from poor soil, sowing too tinckly, and not allowing a well de-veloped and uxuriant growth. The soil should be as rich as for cele y, a trench dug, well manu-red, and the peas s with m small bunches a loo. part, or in a continuous row. To keep up the noom, the same course must be adopted as with nany other plants, namely, the prompt remo-val of the seed pods as fast as they form, as the nowth and ripening of the seed would exhau t the plasts. Emching-in occasionally is useful. 5. me of the English gardeners, by a process similar to the preceding, keep up thowers from May to November.

### RAISING POULTRY.

See that the roost is clean, and have no openings excepting where the hens go in and out and glass window or two for light; keep the door ocked, and ave the entrance for the fowls only them to lay in, be numerous enough for at east four times the number you rave, which will give room for them to rest at night unmo ested by the many quarelsome dames to be ound in a scire or more hens, and it will preyent so many hens wanting to use the same nest to lay and hatch out young in. If there are nore than thirty hens in one roost, have another one made, above 100 yards away, a. d leave two or three roosters only with those left, as one fine realthy male bird is sufficient for ten or ffteen And do not have more than this number aens. at one place if you have to contrive ever so many new roosting-places; then feed well, never heeding what some miserable old stingy mor als say to the contrary, giving them just as much m rn-ng and evening as they will eat up clean. Feed early in the morning when you let them out of the roost, as they will then all at together, by scattering the corn or grain all around, for it is a lazy and foolish way to throw what you give them on such a small space as to have the master fowls fighting the underlings. Free just before sundown, at as regular a time as pos-sible, and new r between times, unless in frost and snow, when they can get nothing on their range; then give them boiled vegetable food, such as potatoes or turnips, mashed wel and mixed with oatmeal or any meal ground from a different kind of grain from that which is fee

But to raise early peas, we must not only sow them very early, on a warm soil, but we must ow the earliest varieties. There is a difference n time of maturing between our earliest and latest varieties of the root four weeks. Tom Thumb is the most easily grown of all venient shed with snug laying places on the ground, they will hatch out and raise then young better than by bothering hens, poor things, to sit extra time and dance attendance along ditches or around ponds.

Any youth who has premises of his father to commence raising poultry on and around shoul : look to the egy- as a source of profit equal to the chickens raised, and if he has seve ra separate roosts it would be good policy to have the perpetual laying varieties of hens at al. but one, keeping one lot to use for si ting and raising, and the others for laying.—Country. Gentleman.

To CAUSE THE HAIR OF THE MANE AND TAIL TO GROW. - In reply to S. C. , take, in the *Rural New Yorker* of Dec. 9th, I beg to give the following recipe, which I have personally proved to be emcient in rest ring a healthy growth of nair on the tails and manes of horses : Corrosive sublimate (hyd. bichionde,) oxymuriate of mercury, each tour grains in one ounce of distilled water. Wash the parts where the hair is thin with warm water and soap, then rub dry with a linen c.oth and immediately after rub in some of the above liniment. If the hair has been rubbed off by the animal's own endeavours to allay cutaneous irritation, then dress with the rollowing ointment: One ounce of fine flour sulphur, one ounce of pulverized saltpetre, made into a soft ointment with fresh butter or fresh rendere hog's lard ; rub in at night and wash out in the moring with warm water and soap; r.peat three or four times. If the hair is scant from natural debility of the capillary or ans, then simply use cold water applied with a soft sponge; avoid all combing or brushing, and clean the mane and tail, as the Arabs of with a coarse flannel rubber.

### Never Prove False to a Friend.

Never prove fa se to a friend, In love and in friendship be true; Never prove false to a friend So long as he's faithful to you.

He may be dishonest ; a knave In other's opinions ; but then To you he is generous an t ind, And one of the noblest of men

Is any man free from each fault.

All righteous and good in his ways ! Lives there a woman so perfect on earth 'I hat she can be named but in praise?

Never speak ill of a friend, To gossippers keep closed your ear An excellent rule on the main,

Is to credit the tenth that you hear.

Stand by a friend in distress, Wh n you know he is really in need ; Heed not if he fails ; none the less,

There is honor for you in the deed. That one may deceive you tis so-Then his, not yours the disgrace; Because we find one man untrue,

the plants were apparently dead he dragged ithe round up mellow and sowed spring wheat, and after harrowing in the seed, rolled all the field. All this was early in spring. The result was a good crop of spring wheat, and nearly as early as the winter wheat, and where dragging had lapp d on the latter it was evidently benefited. Have since dragged and rolled separate parts of the winter wheat fields, applying drag to the core transfer improvement to the crop has always followed.

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Mr. Account. - Why drag and roll too? Mr. Conklin. - Dragging loosens the ground, and the roller presses into that soft ground the loosened roots.

Mr. Samuel Chapman.—Last spring I re-solved to make a test in my wheat by dragging part and leaving part. I took out a thirty-two teeth sharp drag, and started it myself to note results. The first two rounds I kept watch of the teeth as they tore through the roots. It is a though all more torm with the and looked as though all were tornout. At the end of those rounds I raised the drag to see how much the teeth had gathered. It was surpris-ing to see how little. I don't believe one plant in a hundred was torn up. So I concluded to trust my man for the rest of the job, but I instructed him to leave certain strips which were staked out, in order to make a comparative test. Now for the results. Those parts which were harrowed took on a darker green and gave evi-dence otherwise of increased vigor. They retained all their advantage over the undragged parts until harvest. I could not separate the narvest, and cannot therefore tell how much I was benefited by the work, but the advantage was very plainly in favor of the harrowed por-tions. The field the previous year had borne barley, the year before corn, and before that was a timothy sod. Some fear to undertake an operation which looks so hazardous to the crop, but I can assure you that if you will put your harrow on the wheat and drive it a while, and then examine the extent of the mischief, you will be surprised there is so little. I would recommend dragging as a sort of spring cultivation of winter wheat, on all pieces not troubled with many flat stones. On such the injury might outweigh the advantages.

Our own experience in harrowing wheat for two or three seasons has satisfied us of its utility. Our p actice has been to harrow soon after the ground was well settled and dry after the wheat nad commenced growing. Indeed we have har-rowed, as an experiment, the second time after the wheat was six or eight inches in height. It makes the soil in fine tilth, seems to give a clean appearance to the field and a thrifty look to the wheat. Of course this cannot be done where the ground has been seeded with clover without damaging that. We prefer sowing our clover seed just before the harrowing. It is then nicely covered in a good seed bed and escapes danger from late frosts which damage so much early sown clover.

## FECUNDITY OF DUCKS AND HENS.

Some interesting experiments have been made upon the comparative f cundity of ducks and hens, so as to determine from which of the two the larger number of eggs can be obtained in the same time. For this purpose three hens and three ducks were selected, all hatched in February, and nourished with suitable food. In the following autumn the ducks had laid two

Grumbler exdoor-way for day !" was our vering of snow d coat, and we idant crops of store for us.ing of beauty s and girls of try; it is also sure protection serves our wino the producmantle kindly this northern somewhat the and fall. Covir grasses and are uninjured, into luxuriant est rays of the st gentle drops has departed. omathe soil; it atmosphere eleround. Every with what cerfrost and heavy heavy harvest, with an abunrule holds good or a warmer clioracing weather the merchauts' our trees how ded with rich nd power of ry

so sung that the ends crowd a very little at the top and bottom of the notches cut to receive them in the girdled tree. I then take strip of old cotton cloth well spread with good grat-ing wax, and bind it around the tree where the grafts are set in, and the work is done. The coh may reach above and below the place g.r.lied. I believe I have not lost any tree thus treated. Before I learned of this method I lost more or less every winter.

As a preventative I keep a good rat dog to kill the mice, and it does me good to see him poy off the little vermin. If the tree he large it will take five or six slips, or more if it 1 thought necessary.

I exam ned some of my trees the other day, and I found the slips grown to the size of two inc es in two years, and consequently the trees were almo thea ed over.

This method saves time and a new tree. which is a great item when a tree has been gidled that is large enough to bear two otiree bushels of fruit. - M c h an Farme.

### EARLY PEAS AND SPINACH.

The seeds of peas and spinach germinate in the earth at quite a low temperature, and the plants will endure considerable frost without injury-henc- they are among the first garden

crops sown in the open air. As but little skill is required to grow peas, our city markets are liable to become overbelow paving rates. But the markets g n-rally open very high, and they who have a warm s di su ly or gravelly (cam said a warm situa-tion- descending towards the south, so that the rays of the mid-day sun fall almost vertically upon it, can make the growing of early peas profitable,

tirst hens which want to si , and mark them all with ink, so that if any more shoul i be laid to them after, they can be taken away, and this should be seen to daily-13 to 15 eggs, according to size of hens, will be sufficient for any hen to cover and keep wa m.

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When the hens hatch their young brood, put them in warm little movable coops, so that the nen cannot drag them about in the coid and wet. Place these coops on some nice sunny bank, far enough apart to prevent the broods mixing, and attend to them every two or three hours, as in cool weather and so early in the season they require feeding often, and when storm + come on or it is very cold, the coops require cosing up so that it will be da k inside, a.d the hen will nurse them all the while. when the chickens are a month old, the hens can be allowed their liberty during the day, and when they commence to lay again, can go back to their former roosting place, the little ones using the coop till they are sold or taken to a roosting-place, which should not be with the old fowls, as they would get a deal of punishment from their roosting together—besides which, as the weather becomes warmer, it is unhealthy to be at all crowsel, and disease, lice and death follow in succession. The art of raising poultry is in giving them spaci us roosts and extensive ranges, and keeping the families small; then there are no limits to the numbers any one wishes to have, but any poultry fancier had much bette expend \$500 in the construc-tion of fifty rousts placed at a distance from each other, to preve t intermixture, than to lay out \$1.000 in a fine pa atial editics to accommo date the same number under one roof ; and, say what any one will to the contrary, any one of the rifty little ten-dollar roosts would pay more profit than the great on ; thousand dollar struc-

ture. Turkey and Guinea birds should never be per mitted to enter the roosting or laying depart.

Shall we wrong or d strust a whole race?

Censure a man for his faults. Give him honor, where honor is due : But never prove false to a friend, As long as he's faithful to you.

### CULTIVATING WHEAT FIELDS IN THE SPRINC.

Many farmers have harrowed their winter wheat in the spring, when the soil was in proper condition for working, and the reports of such culture have been, in the main, favorable. h England a machine is in use adapted to the working of the soil between the drill rows and sweeping the same breadth as t e grain dril'. Horse-hoeing is the name applied to this kind ( culture, and it is, of course, more perfect than the work of a comm n harrow. It destroys weeds (reaks the winter crust, a d if it does not of rectly benefit the crop it helps that following, inasmuch as it cleans the soil. Drilled wheat he in much better shape to be benefited by the use of a common harrow than that sown broadcast its roots are firmer and deeper in the soil, so that fewer are torn out and more dirt is worked up loose between the rows. The roler is deemed better implement by many of our farmers, and is more freque thy used on their wheat fields in the spring than the harrow. It is certainly a safe tool to use on the wheat field; it breaks the crust, presses the soil hrm around the plants, and smooths the surface of the held. The soil must, however, be quite dry when it is used.

In this connection we give the experience of some of the farmers belonging to the Elmira Club, in cultivating wheat in the spring and in sowin ; spring wheat where winter wheat had been badiy killed. J. R. Conklin had a field of winter wheat much injured by heaving. In the warst spots when

hundred and twenty-five eggs, while the hens in the scase laid none. In the following Febru-ary the laying season began again with the ducks, and continued uninterruptedly till August. They showed no inclination to sit and became very thin, but subsequently fattening up somewhat. In the meantime the hens had not been idle. The total number of e.gs laid by the hens amounted to two hundred and fifty-seven. or eighty-six eggs each; and the ducks produced three hundred and ninety-two. or one hun-diel and thirty-one each. Although the eggs of the ducks were rather smaller than those of the hens, yet they proved to be decidedly superior in nutritive material, so the superior-ity in productivene-s appears to be al.ogether on the side of the ducks.

### GAME HENS AND DUCKS.

A writer in the Canadian Poultry Chronicle A writer in the Canadian Fourty Chronical gives the following as his experience with the laying qualities of game hens and ducks:— "There are few fowls more prolific than game, and where there is a good wide range of any inclusion former will prove more more protected to the kind, no fowls will prove more prohtable, black-breasted red variety being the best. They eat little in proportion to larger fowls, and They eat little in proportion to larger fowls, and are very good layers; but they cannot be kept in close confit ement on account of their fight-ing propensities. No fancier that can find a suitable place in his poultry yard but should have a few ducks. Their appetite is such that almost any kind of food will supply them; they pick up the waste food left by other fowls and grow fat on it. In the barn yard, in gardens, and in pasture land they are alike useful and beneficial. There are three kinds which now a tand high among breeders, namely :--The Avstand high among breeders, namely :- The Aylesbury, which is pure whice; the Rouen, which in color resembles the wild Mallard; and the Cayuga, which are pure black, accept ocea-sional white spots on the

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# FARMER'S ADVOCATE

### COOLING MILK FOR BUTTER MAKING.

During summer the milk as soon as it is drawn from the cows should be cooled down to a temperature of 60  $^{\circ}$  to 62  $^{\circ}$ , and this temperature maintained while the cream is rising. To accomplish this there should be a spring of pure cold running water at hand, and tanks should be made to not the milk while cooring; and in most cases all the time till it is to be skimmed, unless it can otherwise be kept at a temperature not exceeding 64°. in Orange County, New York State, which is famous for butter, the plan adopted is to have tanks 6 feet wide, by 10 to 12 lest long and 20 inches deep. These tanks are constantly suppiled with cold running water, which can be conducted by pipes so as to ran through several tanks, each elevated enough above the other in gradation to give a very gentie flow from the highest one down to the lowest. The mik as soon as drawn from the cows is placed in long tin pans, which are at once placed in the tanks and remain there till the cream rises, which usually takes from 12 to 24 hours, the length of time depending somewhat upon the state of the weather and richness of the milk given by the cows.

The butter makers of that portion of Pennsylvania where the celebrated Philadelphia butter is made, construct spring-houses with cement floors, over which water is flowed, and the milk pans are set on the floor. Narrow elevated plank walks are arranged so that the attendants can pass among the pans to handle and remove them for skimming or setting. The plan adopted there is to take off the firs. cream that rises within twelve hours, and set that aside for the manufacture of the very choicest butter. The cream that rises afterwards is not equal in quality to the first, and is kept separate, to be made into butter of a second grade of quality. The butter made from the first cream brings \$1 per lb.; the other a less price.

It cream is left too long on the milk, or becomes in any way tainted or soured, a first-class article of butter cannot be made, as decomposition has then already set in. Really first-class, well-made butter should retain its sweetness and flavor for months, while, as ordinarily made, it loses flavor and begins to turn rancia in a very short time during warm weather. The cream is churned at the same temperature

CRIB-BITING AMONG HORSES. This ugiy habit is most common among horses that are kept constantly stabled. At first it is merely a habit provoked by idleness, and hence is most frequently found in horses that are not accustomed to regular work or exercise. In turn it becomes eventually a disease that is almost incurable, and very provokingly destructive to all the surroundings of the horse affected. It is also very apt to become catching from one horse to another where they are stalled together, or if a horse is in close enough proximity to a crib-biter to hear him tearing away with his teeth at every thing within his reach. It may be cured if taken in its early stages. Being usually a concomitant of indigestion caused by high feeding and want of sufficient exercise, any substance which acts as a stimulant to the horse's stomach will be beneficial. A lump of hard rock salt kept within reach of the horse at all times while in the stable is very effacious in stopping the practice of cribbing if it has not become habitual.

If this does not suffice, add a large piece of chalk, and wet the bay and oats fed to the horse. Give such medicine as will keep the digestion in order; good ventilation in the stable and regular daily exercise.-Free Press

### From the Prairie Farmer.

### Patrons of Husbandry,

RE-ORGANIZATION OF THE ILLINOIS STATE GRANGE.

According to notice the Masters of the subordinate Granges of Illinois, to the number of twenty, assembled at Dixon on the 5th inst, for the purpose of re-organizing the State Grange.

In the evening an informal meeting was held, at which a general interchange of views was had, and the members posted themselves in the workings of the order, as explained by the Secretary of the National Grange.

At the opening of the morning session, the committee on by-laws being ready to report. presented a code of by-laws, which were first read entire, and then discussed and voted upon by section. As finally adopted by the Grange the by-laws are as follows:

### TITLE.

ARTICLE I. This Grange shall be known and distinguished as the Illinois State Grange, and in all its acts shall be subject to the Constitution of the National Grange.

## MEMBERS.

Secretary, giving his receipt for the same; to keep an accurate account thereof and pay them out on the order of the Master, first getting the consent of the Executive Committee; he shall render a full account of his office at each annual meeting, and deliver to his successor in office all moneys, books and papers pertaining to his office, and he shall give bonds in a sufficient am unt to secure the money that may be place in his hands, which amount shall be payable to the Master. SEC. 8. It shall be the duty of the Gate

teeper to see that the gates are properly guarded ELECTIONS. ART. VI. All election shall be separately, by

ballot, and a majority of the votes cast shall be necessary to a choice.

### VACANCIES.

ART. VII. In case of vacancies caused by death, removal or resignation of any officer elect, the Master may fill such office by appointment, for the unexpired term. COMMITTEES.

ART. VIII.-SEC. 1. All Committees, unless ART. VIII. - SEC. 1. All Committees, unless otherwise ordered, shall consist of three mem-bers, and shall be appointed as follows : two members by the Master and one by the Over-

seer. SEC. 2. At the regular annual meeting a Commiteeon Finance shall be appointed, whose duty it shall be to audit all accounts previous to their being paid. To them shall be referred the reports of the Secretary and Treasurer for examination. SEC. 3. At the first annual meeting an Execu-tive Committee of six members shall be elected by ballot, (of which the Master elect shall be an "ex-officio" member,) three of whom shall hold their office for two years and three for one year. their several terms of service being determine hy lot; and at each annual session thereafter there shall be chosen three members of said committee, who sh ll take the place of the retiring members. The duties of his committee shall be confined to business, and during the recess of the Grange they may suggest or adopt such regulations as may seem necessary and expedient for the welfare of the Order.

The Master and Secretary shall call a meeting of the State Grange, as provided in Artic e III. of these By-Laws, upon written request signed by four of this Committee.

### ANNUAL YEAR. ART. IX. The Annual Year of this and Subordinate Granges shall commence on the first day of January, and end on the last day of December in each year.

QUARTERLY DUES ART. X, The Secretary shall see that the quarterly dues of Subordinate Granges are promptly paid; and in case the dues remain delinquent two quarters, the deliuquent Grange shall be reported to the Master of the State G ange. On receiving such notice it sha l be the duty of the Master to warn the delinquent Grange, and if the dues are not forwarded in thirty days, it shall be the duty of the it shall be the duty of the Master to revoke the charter of such delinquent grange.

### APPEALS.

ART. XI. Any Grange whose charter has ART. II. The members of the State Grange shall be the Masters and Past Masters of the Subordinate Granges of the State. power to reinstate such Granges subject to such penalty as may seem just.

so that officers of the State Grange shall be elected annually: and that until such change is made, we, as a State Grange, request a dispensation allowing us so to act.

It was also Resolved-That each and every member of the State Grange be hereby instructed tosascertain, at the next meeting of their respective subordinate Grauges, how many and what kinds of agricultural implements are wanted soon by tueir members, the manner in which they can pay for them, and that they report the same to the Master of the State Grange, that he may order them if they so desire, cash or approved notes to accompany each order.

In explanation of this resolution, it may be said that masters of some of the subordinate Granges had been offered for their members' implements at as good a discount as manufacturers allow to their regular agents. It is a movement to favor members of the order who desire to do away, as much as possible, with middle-men, and to reap the benefits of direct dealing with manufacturers.

The meeting was one of harmony and general good feeling, and much enthusiasm was exhibited in furthering the spread of the order, and in securing the objects for which it was established. As will be noticed, the Granges as yet are confined a most exclusively to a few counties of the State, (several Granges at a distance were not represented), but interest in the matter is very rapialy sprea ling, and there seems no doubt but, with a continuance of the present zeal on the part of those connected with the order, and wise counsel in its management both here and in the other States, that the work of uniting the producing classes will progress with a rapidity commensurate with the importance of the movement.

In this connection we publish the following

BLEA FOR ORGANIZATION AMONG FARMERS. One of the distinguishing features of the present, as compared with former times, is the tendency in every d-partment of labor or bus-iness to a sociated effort.

Organization is the watchword of every enterprise. Organized effort builds railroads, establishes steamship lines, controls Legislatures, moves Congress, makes and unmakes the "powers that be"-does everything. indeed, short of an actual usurpation of Supreme power. The merchant, the politician, the speculator, and indeed every class of men with whom intelligence is the meving force, have not been slow to avail themselves of a power which, collected even from feeble sources, is, when agitated, well nigh irresistible.

The agricultural interests alone, perhaps, furnish an exception. The husbandmen alone have not manifested the disposition, if they have possessed the power, to organize. They have been the bewars who have received the crumbs that have fallen from the tables of others. The source of all wealth-the only producing power in the whole category of intelligent forces, they have with surprising humility and unparalleled meekness, accepted the favors which the condescension and graciousness of those whom their industry has supported, have deigned to bestow. Like the dairyman's cows, their diet has been scant or generous, acc rding as the interest or necessities of the master require. The chief eye has been to the product, and it has not answered quite to kill the g ose that lays the golden egg. What wonder, then, that the cases and responsibilities of the farmer have been accounted service rather than ennobling? What wonder that the intelligent and enterprising youth has fled from them as f om a bondage? The refinement and respectability of the class have been brought to it, at least to a great extent, by those who have come from other callings, and who have adopted agriculture, not so much as a means of pr fit and a resource, as a mode of spending an ele-gant leisure and enjoying the wealth acquired

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it is kept at-60° to 62°-and it should not in any case exceed 64°. In churning, the butter should not come in less than half an hour after commencing to churn, and the motion of the churning must be kept steady and uniform. If it comes too quickly there is a less quantity, and generally inferior in quality. The best Orange County butter-makers have found from long experience that the process of churning should occupy 40 to 45 minutes to ensure the best quality and largest yield of butter, and that it is better to take an nour in the process than to have it come in half an hour. They are very particular to use. only cold, pure spring-water in washing the butter, and not to allow their hands to come in contact with it during the process of making

#### REARING CHICKENS.

up.

The following rules to ensure success in raising choice fowls are given by a successful breeder. 1st. After they are hatched keep the hen and chicks in a clean, warm, dry coop. 2nd. Do not let the chicks get out of the coop in the mornings until the sun has dried the dew from the grass. 3rd. Do not let them out at all in wet weather. 4th. Give them clean food and pure fresh water, which must be re-1 newed at least twice a day. 5th. Do not let them have access to slops, garbage, or dirty water. 6.h. Let them remain quiet and undisturbed as much as possible, and make the coop so that they will be rat proof at uight.

# MEETINGS.

ART. III. This Grange shall hold regular annual meetings on the Second Tuesday in becember, at such place as the Grange may by vote decide at last annual meeting. Special meetings may be called by the Master and Secretary, by giving written notice to each Sub-ordinate Grange thirty days preceding, or by vote of the Grange at a regular meeting.

### QUORUM.

ART. IV. Twenty members shall constitute a quorum for the transaction of business. DUTIES OF OFFICERS.

ART. V.-Sec. 1. It shall be the duty of the Master to open and pre ide at all meetings of the Grange, and, in conjunction with the Secretary, to call special meetings.

Sec. 2. The duties of the Lecturer shall be such as usually devolve upon that officer in a Subordinate Grange.

Sec. 3. It shall be the duty of the Overseer to assist the Master in preserving order, and he shall preside over the Grange in the absence of the Master. In case of a vacancy in office of the Master, he shall fill the same until the next annual meeting.

Sec. 4. It shall be the duty of the Steward to have charge of the inner gate, and to preside over the Grange in absence of the Master and Overseer.

Sec. 5. The Assistant Steward shall assist the Steward in the performance of his duties.

SEC. 6. The Secretary shall keep an accurate the Grange record of all the proceedings of make out all necessary returns to the National Grange ; keep the accounts of the Subordinate Granges with the State Grange; receive and pay over to the Treasurer all moneys, and take a receipt for thesame.

SEC. 7. It shall be the duty of the Treasurer to receive all moneys from the hands of the

## WITHDRAWAL AND TRANSFER OF MEMBERS.

ART. XII. Any member of this Order may affiliate with a Subordinate Grange by presenting a demit, showing that he is a member in good standing, upon a vote of the Grange receiving such petition.

#### DEPUTIES.

ART. XIII. There shall be appointed by the Master of the State Grauge a sufficient number of Deputies, whose duty it shall be to organize new Granges, on application having been made to them by those desiring such an organization; to instal officers of Granges when the same have been elected, and they shall be vigilant that no disorder shall obtain in the Granges under their unsorder shall obtain in the Granges under their jurisdiction, and shall report promptly any such disorder to the Master. Deputes shall receive, for organizing new Granges, their travelling expenses and five dollars additional for each day's service actually necessary for the work. No other Granges shall hereafter be recognised except those organized by Deputies appointed as herein specified, and by Masters.

#### AMENDMENTS.

ABT. XIV. These By-Laws may be amended or revised at any regular meeting of the Grange by a vote of two-thirds of the members present. The consideration of these by-laws occu pied the attention of the Grange during the entire morning session.

The atterno n of the second day was employed in general discussion of the aims of the order, and in perfecting members in working the ritual, and other secret workings of the order.

On motion it was Resolved—That we desire or on credit, with the invariable per cent. of the National Grauge, at its next meeting, to profit which the merchant's hieroglyphics do change the Constitution of the National Grange not reveal. His implements of husbandry

from other sources. The superior intelligence which any of the elass who have been bred to it, and been brought up in it, have shown, has been de-veloped in spite of its disady ntages, rather than under its stimulating influences. However much the agr cultural casses may be made the subjects of complimentary phrases and flattering designations, this is too palpably true to be gainsaid by any intelligent and observing farmer. The farmer has little to do but to grub and to plow. He seldom leaves his work except to go te market or to mill. His grain is received at the elevator, his cattle, and higs, and sheep. and wool are picked up by the enterprising speculator. His supplies are passed over to him for cash have rece most its b lies i its e of fa prov of fa hou ject

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on, it may be subordinate eir members' as manufacents. It is a he order who efits of direct

ony and genthusiasm was d of the order. which it was the Granges sively to a few Franges at a but interest in ing, and there inuance of the counected with s management ates, that the lasses will prourate with the

h the following ONG FARMERS. atures of the er times, is the of labor or busord of every en-

uilds railroads, ntrols Legislaand unmakes rything. indeed, on of Supreme politician, the ass ot men with ing force, have lves of a power able sources, is, stible.

alone, perhaps, soandmen alone position, if they organize. They ave received the in the tables of ealth-ihe only category of inwith surprising ekness, accepted

# are branded with the Dutchman's one per cent. on every shaft and crossbar. He toils

on disassociated-alone. The combinations of others are against him. The combinations of otners are against him. The manufacturer dares not recognize him, except through his agents. The railroad com-panies overburden him with taxes, oppressive rates and exactions. The legislature ignores him while voting subsidies, tar fis and corpora-tion privileges. These are specim-n chiefs, whose lieutenants, the middle men, the imple-ment dealers the realized events the small ment dealers, the radroad agents, the small politicians, command and lead him as they will. He is treated as so much gross material. whose capabilities are calculated as men calculate the strength of a beam, the power and • ducance of a horse, or the profit and pro-ductiveness of a cow or a sheep. He is neither made their social equal, nor regarded as in fact the source of the wealth of the world. The chief seats in the synagogue are not for him. The possibilities, indeed, of rising to positions of eminent usefulness and wide influence in the parsuit of agriculture are so remote and uncertain that practically, the ambition to do this involves the necessity of choosing some other business in professional life .-The thorough disintegration of the class and the difficulty of bringing any enlightening and benefitting influences to bear upon them, were aptly illustrated at the recent convention of representatives of agricultural schools at Chiengo, where it was seriously discussed how i was possible to bring the results of the work of these institutions, especially in the experimental field, to the knowledge of the agr.calmental near, to the knowledge of the agr.chi-tural masses, whom they were designed to benefit. And this is a real difficulty, and at present is not possible, except to a very im-perfect degree. We ask, where is the remedy? The obvious answer, and the only answer, is, in Organization : an Organization which share in Organization ; an Organization which share embrace and touch the masses; an Organization on a plan so complete and comprehensive that its ramifications shall extend to remot neighborhoeds, and include in its membership the honest and moral husbandmen, of every degree of intelligence.

The order of " Patrons of Husbandry" is an organization whose plans and purposes are of this kind. These plans and purposes are of covert, but are open, to be "read and known of all men." They can be easily examined and understood. What of good there is in them is lad open to inspection, and what of evil is not concraled.

Are the requisite elements for such an organization to be found in the agricultural class? Many farmers of the best intelligence hopefully affirm they are. Others, most pos-Tais movement undeabtedly partakes of the nature of an experiment, and what other great enterprise has not? Yet even as an experiment, it offers possibilities so large and in viting that we may well take counsel of our hopes rather than our fears. It is only just to add that those who have examined the workings of the order most thoroughly, and workings of the order most thoroughly, and have had the best opportunities of noting its reception among the agricultural class, are most horough the set of the new set of the new set of the set of most hopeful of its success and expectant of its benefits. These ret of its power for good lies in the single word organization ; whether its efforts are to be directed to the collection of facts, diffusion of information, mental improvement, resisting combinations, cheapening of farm supplies, introduction into neighborhoods of improved stock, or to whatever object, organization is th antecedent of success.

FARMER'S ADVOCATE.

# Correspondence.

FARMER'S POSITION. SIR,-In my letter on "Farmers' Clubs.

printed in this month's paper, you make me say that the general quantity of seeds sowed to the acre was two bushels. It ought to nave been two bashels of mixed seeds per ten acres. I have been quizzed about the quan-tity I sowed already, and expect to get a good deal more of it. I also did not wish my name to appear, and I think I signed myself "A Farmer." I do not care much whether my name appears or not; but as 1 am a young man, and a still younger farmer, I may be thought to be putting myself too forward among my neighbours. I wish you would

remedy the mistake about the seeds. In reference to the paragraph taken from the Wisconsin Republican. It says that farmers have less amusements and fewer opportunities of social enjoyment than any other class." Now, if the gentleman who wrote this lived in our neighborhood I think ne would soon change his opinion. I think farmers, as a class, have more social enjoyment than a great many other classes, especially those people who live in large cities .a person may live for years next door to another and never see them or visit them. 1 know this from experience ; I lived once next Lor to a ram ly in a rarge city for over seven in aths, and never knew one of the inmates an attas, and never knew one of the malades by sight even. This I would not call much a cal intercourse. What would we say of a armer who lived on an adjoining lot to another or seven months and never saw him or his amily ? Why, we would call him a very a meighbouriy fellow at least, if not someuning harder; but this case is not the excepion, but the rule in large places. Again, it a armer or any of his family are sick, he gets more attention paid to him than any other class of men either in city or country. Again, in the fall and winter months there are a great many pleasant parties, &c., &c., which you will rarely find equalled in towns. I also which have be a farmer with a good team and a good read before him, whether the place te was going to was one mile or five distant? In fact, there are many winter evenings a erson would rather drive the latter distance than the former, if for nothing else but to exercise his horses, which generally stand too much in the stable during the winter. Again, he says : "While they work harder than any ther class, they enjoy less of the comforts and pleasures of life." Now, 1 quite disagree with nim about the farmers working harder than any other class. I know we have to work hard during the busy season of the year, and make long hours in haying and harvesting; but, with the exception of about two months, I hardly think the farmers work on an average ten hours a day through the whole year; and

We have examined the communication you refer to ; you have written two bushels to ten acres : the mistake was made by the printer. We have been so overwhelmed with labour in regard to seeds and other things, that we did not read the proof-sheet. We are highly pleased that you should have taken the subject up and handled the question so ably. It is our impression the publication of your articles under your own signature would be rather advantageous to you than otherwise.

### MACHINE ON THE BRAIN.

SIR,-All must admit that we live in an age of progress, and that the last half century stands marked in the world's history as the great progressive age. It is but natural to ask the cause of this progress. I think, sir, you will agree with me that it is the application of steam as a motive power which is the principal cause. For proof of this, we need but look at the carrying trade all over the world, by land and sea, and the various manufacturing establishments producing articles of utility and comfort at a rapid and cheap rate, and the printing press, the great civilizer of the world-all these derive their great impetus from steam. It is quite natural for us here to inquire if the application of steam power cannot be applied more directly to aid the agricul-turist? If it is used as an economical power for the purposes before named, why not for agricultural purposes generally, teaming on our waggon r.ads, ploughing and cultivating our lands, mowing, reaping, thrashing, &c. ? Now, sir, my opinion is, some simple appli-cation is needed, and we will do our farm labour much cheaper with steam than with annual force. If the various agricultural societies of our country would offer premiums sufficient to induce genius and talent in that direction, 1 have no doubt in a short time it would be accomplished. Our Provincial Agricultural Society for some years past offered \$100 premium for the best steam plough on

I would suggest that the various Agricultural Societies combine in some way to other, through the Provincial Society, inducements sufficient to engage inventors to try if possible and produce some simple and cheap locomotive to be properied by steam, to be used for ploughto be propended by steam, to be used for plough-ing, teaming on waggon roads, reaping, mow-ing, thrashing, &c., &c. If it is produced, agriculturists will be the gainers, though they should offer a heavy premium; if not, they have nothing to pay towards it.—Yours for

### SMUT IN WHEAT.

71

SIR .- In the January number of your paper a Scotch agriculturist describes the cause of ball smut in wheat, but he says nothing about the way of preventing it. Having had experience in this matter for several years, I send you my recipe :--- Make a strong brine, and put it in a small pot on the fire; then put in blue vitriol; let it simmer till the vitriol is dissolved; then put the prepared brine on the dissolved; then put the prepared brine on the wheat. and let it stand some time, not less than 24 hours. It will not injure the sound wheat; the damaged grains only will turn blue. Just cover the wheat with the brine. One pound of vitriol is enough for five bushels of wheat. I see but little smut in this coun-try, compared to what we had in Ireland.— There we never sowed our wheat unless prepared as above, and I never saw one head of smut in wheat, the seed of which had been treated with this preparation. N. HUGHES.

Treadwell, April 10, 1872.

### SMUT IN WHEAT.

SIR,-I send you the result of a trial I made to test a preventative of shut in wheat: I took some good, clean wheat and rubbed it well with snut; I then divided it into three portions. No. 1, I sowed dry; No. 2, I wet with water and dried with lime; No. 3, I soaked in vitriol (sulphate of copper). I sowed thesthree parcels, and the result was as follows: No. 1 the helf of the result was as sowed the three parcels, and the result was as follows: -- No. 1, the half of the product was smut; No. 2, nearly one-third was smut; No. 3, there were only very few grains affected with smut. I also sowed in the same field dry, clean wheat, which produced no smut. J. W. HALL.

S. Monaghan, April 12, 1872.

### TESTING OF SEEDS.

Srr,-Please send me the McCarling wheat that you offer to present to your subscribern. I am a director of the Agricultural Society of this township. I enclose the necessary am-ount, and will carefully test the wheat and send you the report in the fall.

Silon preunum for the best steam plough on exhibition. As yet none have been produced, and no great wonder, for takent and genius could not be expected to produce such an article as would be adapted to this country without expending ten times that amount in experimenting. It must be remembered also that men of genius are not generally rich, and cannot afford to spend money and time in experimenting without some prospect of an early remuneration. country as large, than the present mode of frittering away the money on Exhibitions.— You have devised and you are carrying out the very best method of benefitting, the agricul-turists and the country generally. I hope you will carry out fully your great design of hav-ing farmers throughout the whole country applied with genuine tested meds. I got a supplied with genuine tested seeds. I got a small quantity of Grown Peas from you, which have done well with me. They required bet-ter cultivation and cleaner ground than the common peas.

ension and grair industry has bestow. Like t has been scant the interest or uire. The chief and it has not g-ose that lays er, then, that the the farmer have than ennobling? ligent and enterthem as f om a nd respectability ht to it, at least who have come ho have adopted a means of profit spending an elee wealth acquired

which any of the to it, and been wn, has been deiv intages, rather influences. Howcasses may be imentary phrases this is too palpany intelligent and mer has little to low. He seldom o te market or to d at the elevator, ep, and wool are rising speculator. to him for cash riable per cent. of 's hieroglyphics do nts of husbandry

### NOW THE SOUTH AMERICANS MAKE FRUIT TREES.

Darwin, in his "Naturalist's Voyage' (1871), says:-" In Chiloe, the inhabitants possess a marvellously short method of making an crehard. At the lower part of almost every branch, small, conical, brown, wrinkled points project: - these are always ready to change into roots as may sometimes be seen, where any mud has been accidentally splashed against a tree. A branch as thick as a man's thigh is chosen in the early spring, and is cut off just beneath a group of these points; all the small-er branches are lopped off, and it is then placed about two feet deep in the ground During the ensuing summer the stump throws out long shoots, and sometimes even bears fruit. I was shown one which had produced as many as twenty-three apples, but this was thought very un sual. In the third sensor the stump is cha ged (as I have myself seen) into a well-wooded tree, loaded with fruit."

Learn that happiness is not outside, but inside. A good heart and a clear conscience bring happiness, which no riches and no cirsumstances alone ever de.

man, who writes about the hard work of farmers, saw some of the work in mines and other places, he would be apt to change his opinion. I saw the work in a large pronworks once, and could hardly think it possible that men could stand the heat and labor I saw there. Indeed, if you take all, or nearly all, of the classes who make their living by manual labor, you will hardly find another class that

labor, you will hardly find another class that take it as easy through the whole year as the farmets. Again, he says "we dont enjoy the comforts and pleasures of life." I have said something about the pleasures above, so I will not refer to them again. Now, what does comfort consist in ? I should think in having pleate to act druck and wear and having a plenty to eat, drink and wear, and having a good house to live in, warm in winter and cool in summer, and not being troubled about the changes and fluctuations of trade. I think most people will agree with me that the farmers, as a class, enjoy more of the above comforts than any other people in Canada. A tradesman is not sure of work from one day to another, and when out of work his means of living cease; if he gets sick, his wages are stopped, and everything is going out and nothing coming in. How different with a farmer! If he is unwel a day or two, or wishes to take a holiday, his wheat does not stop growing, or his cattle stand still, just because he is away from the farm.

Now, Mr. Editor, I think some one better qualified than myself had better take this question up, and give their ideas upon it. I hope to see a good article on this in your next number.—I remain, yours truly, Brantford, April 1st, 1872.

A FARMER. purposes,

)rogress

"Old Subscriber" may have some good object in view (and perhaps may have machine on the brain) that he would like to see perfected. Having heard more than is contained in his communication, we will tell you his hobby. He wishes to get up a steam engine to propel itself when necessary, to plough, drive the reaper, and do all that labor now does with a span of horses; and also to be used as a stationary engine when required. His plans are as yet in his cranium. The engine is to turn round on the ground it stands on, if required ; it is to ascend any hill that horses can, and descend as steadily. The economy of its workings are estimated, and a farmer is to go to church on Sunday with his own steam engine, and do all kinds of work cheaper than is now done by horses ; horses are to be displaced by it. There will probably be plenty of our readers who will scout this idea, as invariably every new invention or im-provement is sure to be decried by the mass; and some one poor solitary indivi-dual has to labour and toil, often despised, ridiculed, and called crazy, a fool, an idiet, &c., while the results of his work are taken up and used by the very parties who have decried them ! If a good premium was offered to aid such, we think the public

money might be expended for less useful

My filly from "Anglo Saxon," is ac-knowledged by competent judges to be the best in the township. She is fisting two years old. F: MXCOUN. old

Seymour, April 11, 1872.

### AGBICULTURAL FAIR.

SIR,-The first fair held in this village, for the sale of agricultural stock, grain, &c., was held to-day. The weather was not favorable, and, consequently, there was not much business done. There were a good many cattle offered for sale, but, owing to the scarcity of ness done. feed this season, they were not in the best reed this season, they were not in the best condition. However, several cattle changed hands at fair prices, and also some sheep and horses. There were several thorough-bred and grade bulls on the ground. There was not the same competition and business done that there would be at fairs longer established; but every undertaking has its first day, and success follows perseverance. We hope the Fair of Warkworth will yet stand A No. 1 in the county of Northumberland.

JAS. CARLON.

Warkworth, April 10, 1872.

### RATHER ROUGH.

Sin,-Last summer here was so dry that the crops were next to a failure, and most of the farmers contracted debts. Hay could not be bought under \$35 per ton, and most farbe bought under the per on, and to put in iners will not have seed shough to put in their spring crop. This season, I trust, will not be as bad as the last. THOS. CUDDIS. North Kepple, April 5, 1873.

### Rouen Ducks.

If a variety of ducks, easily reared, har e, compact, with fine flavored flesh, and at the same time exquisitely handsome in color and form, is wanted, then the iterate will exactly fill the bill. The race is "thorough-bred" as truly perhaps as any other, though unquestionably nothing but a common puddle-duck improved and bred to a great size. The distinctive qualities of the Rouens are transmitted with a good degree of certainty.

This variety of ducks is brea by fanciers to the utmost nicety as regards feathering. To meet the requirements of the standard of excellence, the beak should be long, and the line, in a profile view, nearly ight from base to tip, on top. Color per mandroles pale greenish yellow, ting a broad black spot at the tip.ing upon the drake's neck should be write, and sharply defined, extending ely around with the exception of t one-nalf an inch at the back, where it is severed by dark feathers. The rich chestaut or claret of the breast should be unb.oken, although exactly at its edges

there are sometimes a few intraung feathers of another hue, but the lewer the better .---We will not enumerate the various other points of the drake required by the standard, having merely cloned the above use they are the al ones, and theremecessary to be in mind by bers, especially purchasing. The s ou which the is most apt to re the neck, which i be free from ve tige of the ing of her mate, ic bieast, underof the body and which should be h-brown - each or marked disly with a rich, orown pencilling. out exhibits very uny the various es or plumage. e choose the Rou-.s the best ducks s world, both for looks and for usetul qualities : we admit that are other tine A Rouen ties. e in full plumage oits some of the .somest leathers. ive because so varied-delicately and lear in others, displaying so many canageable hues, and upon the wing marks Even very brilliant colors. And when we space utility, as flesh is the principal const, no other breed of ducks can excel 1.1. ....

England States, and having sold a parcel of land I held there, the purchaser stepped into the Registry Office, the next building to the hotel where I was, and had a deed made out, which I signed and acknowledged before a Magistrate to be my Act and Deed; it was then recorded. All this was done in less than an hour, and cost on y 571 cts.-Deed, 25 cts., Magistrate's Fees, 121 cts., and recording, 20 cts. At this rate my conveyancing would amount to only \$215.63, leaving a balance in my favor of \$1659.37.

I asked about their State Legislature. They gave me a pamphlet in which I read as fol-lows :--Farmers, 142; attorneys, 23; mer-chants, physicians, and mechanics of various trades, 86, making in all 251 members in the House. ments ! What a difference in the two Parlia-I go strongly for more farmers in the House.

P. S.-I have tried to make a statement of the difference between lawyers and farmers making laws for us. but my health is so poor that I cannot state anything clearly. I have passed through 76 hard winters, and am now quite feeble. If you can pick anything out of what I have written worth publishing, do so, or consign it to the scrap basket. I am

Once on a time, I was in one of the New their wisdom, prefer to return men whose interests lie in an entirely different direction? Most of our members, whatever their merits in other respects, are totally ignorant of matters pertaining to the land, and are therefore unable, if willing, to forward in any way the farming interest.

We do not ask for exclusive or class legislation, to benefit us at the expense of the commercial or any other part of the community, but if the public money has been advanced for the benefit and improvement of the towns and cities, for the promotion of mechanics' institutes, &c., then I think that farmers' demands for assistance should not be overlooked. The drainage of the land is a matter which I think should receive the attention of Government, and every country member ought to pledge himself to give it all the support in his power. I trust and believe, Mr. E liter, that power. I trust and believe, Mr. E liter, that you will not allow your readers' interests in these matters to flag, but will keep them well posted to the day of election. WM. KING. Port Robinson, April 16, 1872.

### ALSIKE CLOVER.

This plant has long been extensively cultivated in Europe, where its great value for forage has been appreciated by farmers.

red clover. It is also excellent for the honey-bee, equal to, if not surpassing, the whit clover. The first cutting produces the seed, and after wards excellent pasturage, but, if pre'erred for hay and no seed, it produces two crops. With the know-ledge I have of it, I would not recommend it for light, yellow, sandy soil." We are not able, on our authority, to

speak of this as of other crops that we recom nend. But the work from which we take the extract is of standard autho-We would advise some of our pracrity. tical farmers who have tried it to give us their experience. Give it fair play-clean ground and careful culture.-Ass'T ED.]

### LARGE OR SMALL HOGS.

Under this heading we find a long article in one of our exchanges, the Rural Home. It is a subject well deserving the careful consideration of our farmers. We make some extracts, condensing the article and making it more suitable for our columns. The writer says :-

"One of the last things we would consider in discussing the comparative merit of the breeds of hogs, would be the mere size. The interest of the farmer is, not the great size to which the hog may be fed, but what pays the greatest profit on investment and labor. This is a plain common-sense view of the matter .---We should not send to markets hogs weighing less than 200 or 250 pounds. Hogs of less weight are not in so good demand for packing, and not so saleable. Hogs of 200 or 250 pounds always command a ready mar-We should, in ket. selecting hogs for the farm, keep these weights in mind.

of hogs that will reach these rates with a consumption of less food than other breeds, this is the breed we would prefer, though other bree is might grow larger and heavier. This

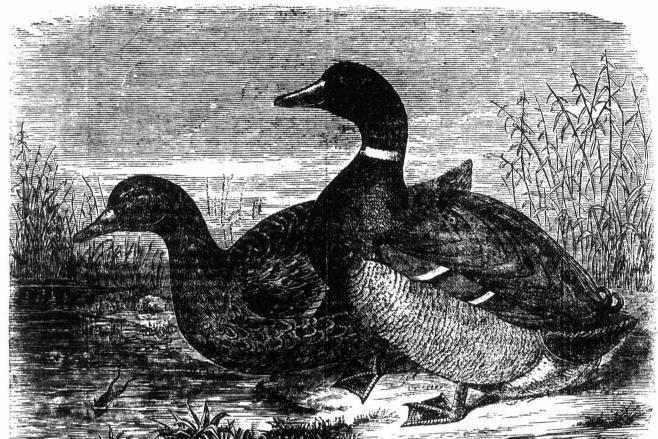
If we find a breed

largest, but what will pay the best. In other words, we would not regard as the great thing to be desired, the Early maturity and quick fattening proin our selection. Our aim should be to put our spring pigs in the market late in the fall, and carly in the winter, and our We have heard farmers contend that at

season is be a bushel of are fed too to secure h erations sh mal is in go Then this muneration

Ou'r first i arrived sin It is not only for or Gladioluses We will se diolus bull lady subsc and have their sendi and postag portunity grain last r selves of it who sends to the ADV we will ser Dahilia Bu "Vick's F choice flow to the lad bers at \$1. CATE and stated, we beautiful : cannot fail beautiful. if you cho and bulbs field seeds them.

read the a time more into your most valu pleasing, o as flowers tractive, a more heav tion into not taint with your to avoid ] the most seeds, imp giving an formation you would kind for We feel a old lady the childr dear, go result wil ceeded in me one of seeds, for If you do or even or new name



We can procure from a first-class stock some eggs from these fine birds, to supply approach of election time, and urging the nethe who get up clubs for this paper.

### FARMERS TO PARLIAMENT.

MIR,-I am pleased to see that you advoc. che principie of sending more la mersio Pernament. This is a step in the right direction. I know from my experience in business that there is a vast unterence in the expenses of a country where the Parliament is composed mostly of lawyers, and a State Legislature, where the great majority are farmers It has ration to my lot to deat in real estate .-I have male and executed, and have received about 315 Decus of Conveyance, ranging in value from ten to ten thousand uoilars. l'ine che of est rate for a Deed-copy and recording .... Deen \$4; many \$5 and \$6, and some as hands \$10. If we take \$5 as the average p. ...., 10 will amount to \$1,875.

# ROUEN DUCKS.

. . . . . .

tinue it. I do think a Deed may be made for \$1 or less, and recorded for 75 cts. The 2nd Deed is as useless as two hats to wear to HIRAM CAPRON. church. Paris, April 22nd, 1872.

### FARMERS' POLITICS.

SIR,-I am glad to see that you draw attention at this time to the above most important subject, reminding farmers of the near cessity of sending more agriculturists to Par*liament.* This is the best motto farmers can adopt. I am afraid it is too true that although all other interests in the couptry are cared for and protected, the farming interest-the most important-is almost entirely unrepresented in our Legislature, and yet a great proportion of our members are returned by farmers.-This is a most absurd state of things, but farmers have the remedy in their own hands if they think proper to act. It is for them to decide whether Canada is ever to become a thriving agricultural country, or merely a highway for the commerce of the Western States.

Surely there must be among the farmers of Ontario a sufficient number of intelligent men to represent our interests in Parliament, and

worn by any bird-particularly at- | well pleased with your paper and wish to con- | Its culture in America is of recent date ; | number of pounds a hog would weigh, but but as its good qualities have become more on the contrary, would select as most pro-known, its culture has largely increased. fitable the hog that represented in every A "Western Agriculturist," in the Western pound of pork the least cost in food Rural, writes :--- "About a year ago last Early maturity and quick fattenin spring I hesitatingly purchased enough of perties are the first things to be considered the Alsike clover seed to sow twenty-five acres, at the rate of four and one-third pounds to the acre, at \$1 per lb. I sowed in the month of April, on ground prepared for wheat, and with it. I harrowed this ground, and atterwards plastered it. Not-breed of hogs would give the largest rewithstanding the dry season, I cut from turn of pork for each bushel of feed conthat ground about forty tons of hay in sumed; and should select the breed which July. I drew into my barn five tons for we believed we could put into market at feeding; the balance I stacked, and in the least cost per pound. We do not be-September threshed it, and got 85 bushels lieve it will be found profitable to feed for of seed. Before cutting, I brought in some the greatest weights in any instance .stalks which measured four feet in length. Every farmer knows that when good The field on which it was sown is high shoals are first put into the pen, in the fall, rolling land ; soil dark, sandy loam. I am they make a rapid increase in weight for feeding this winter my entire stock, horses the food they consume. Feed them liberand cattle, on the hay that was threshed. ally and one can almost see them grow .--They never thrived better on any feed than After a while, however, on the same libthey do at the present time. It is free eral food, their increase is less marked.-from fuzz and dust, and the stalk, unlike We have heard farmers contend that at the other clover, remains green after the first their shoals made a gain of eighteen seed has ripened, and the cattle seize it or twenty pounds for every bushel of feed who are willing to devote their time and ener-gies to the cause. How is it that farmers, in dicate its superiority over the common the average of the hogs marketed any

few flower Now is Go to wor by the 201 plant the will proba in the fal In our lis choice ha the farme quire a h common c

Statist'ca lives than a a mechanic longevity ( brain occas public spea conside ing ment a d cares and a might b co they exerci preserving the most t harvest. diseases wh

t for the sing, the produces nt pastul no seed, he know commend nority, to

that we m which rd authoour practo give us ay-clean T ED.]

long artiie Rural rving the ers. We he article r our col-

ve would liscussing ive merit of hogs, be mere S iterest of. s, not the which the fed, but e greatest ivestment This is a mon-sense matter.ot send to weighing 00 or 250 gs of less not in so for packso saleof 200 or s always eady marshould, in gs for the ) these nind. l a breed will reach ith a conless food

reeds, this we would gh other t grow larier. This lestion :-l grow the what will . In other vould not the great esired, the veigh, but most proin every 'ood ening proconsidered uld be to et late in r, and our ly in the er which argest refeed coneed which narket at lo not beo feed for istance.hen good n the fall, reight for em libergrow.same libnarked. that at eighteen el of feed ot believe eted any

season is better than from 5 to 8 pounds to a bushel of feed consumed, because many are fed too long in the anxiety of farmers to secure heavy weights. The feeding operations should cease the moment the animal is in good condition for the market .-Then this farmer may expect a fair remuneration.

# Flowers.

OUR first importation from Holland direct arrived since the last paper was published. It is not a large stock, and is intended only for our lady friends. It consists of Gladioluses and Lilies of fine varieties .-We will send a choice, finely-colored Gladiolus bulb as a present to those of our lady subscribers who have paid their \$1 and have not received any present, by their sending 5 cents to pay for package and postage. The gentlemen had the opportunity offered of getting presents of grain last month, and many availed them selves of it. To every new lady subscriber who sends us \$1 for a year's subscription. to the ADVOCATE during the present month we will send one choice L(ly Bulb, or two Dahlia Bulbs, or two Gladiolus Bulbs, or "Vick's Floral Guide" and a package of choice flower seeds, or a grape vine ; also, to the lady who obtains ten new subscribers at \$1 each, in addition to the ADVO-CATE and the presents to each as above stated, we will send (postpaid) one of Vick's beautiful and handsome Chromos, which cannot fail to please, as they are exceedingly beautiful. You may add gentlemen's names if you choose, and receive the flower seeds and bulbs, or the gentlemen may have field seeds, vegetables or potatoes sent to them.

### LADIES !

read the above. Can you employ a little time more beneficially than in introducing into your neighbourhood the choicest and most valuable seeds for the farm ?-such pleasing, cheering and refining ornaments as flowers, which always make home attractive, and render it more peaceful and more heaven-like ?-and by the introduction into your homes of a paper that will not taint your morals, does not interfere with your different religious feelings, tries to avoid political strife, and is furnishing the most valuable information concerning seeds, implements and stock, as well as giving amusement to the young and information to the old ? After the first year you would have seeds and plants of each kind for every subscriber, by exchanging. We feel satisfied that some gray-headed old lady or gentleman will say to one of the children or grandchildren—"Yes, my dear, go and try what you can do;" the result will be—"Mr. Weld, I have succeeded in getting up a club; please send me one of the Chromos, and such and such seeds, for so-and-so." Just go and try. If you do not gain a pair of the Chromos. or even one, if you only send three or four new names, we will present you with a few flower seeds that will please you. Now is just the time to get your flowers. Go to work at once. Send your orders in by the 20th of this month, then you can plant them out by the 3rd of June ; you will probably have a better flower garden in the fall than those who planted earlier. In our list will be found a collection of choice hardy Annuals most suitable for the farmers' garden-such as do not require a hot house, but will thrive with common care.

# FARMER'S ADVOCATE.

### SUMMER FLOWERING BULBS. (From Vick's Fl. ral Guide.)

THE Summer Bulls are a most useful and brilliant class of flowers, and becoming every year more popular, both among Heider and becoming in the autumn they must be taken up

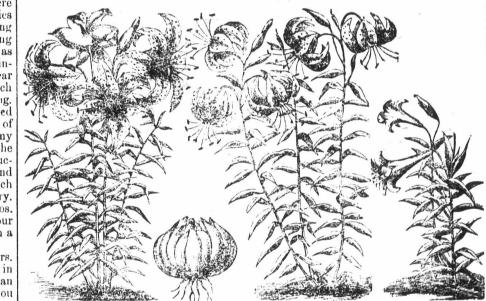
Horists and amateurs everywhere. The before very hard frosts, and kept in the Gladiolus now takes rank at the very head cellar or some other safe place until spring. of the list, and the Dahlia still retains They are easily preserved in good condi-a good share of its old popularity. The tion, and will richly repay for the little Summer Bulbs are tender, and therefore care required in their treatment.



#### GLADIOLUS.

our Summer Bulbs, with tall spikes of ing may be done at different times, from flowers, some two feet or more in height, the middle of April to the middle of June and of en several from the same bulb.-

The Gladiolus is the most beautiful of | and the rows one foot apart. The plantto secure a long succession of bloom.-The flowers are of almost every desirable | Keep the earth mellow, and place a near color-brilliant scarlet, crimson, creamy stake to support the spikes in storms I white, striped, blotched and spotted in have never known a case where the Gla the most curious and interesting manner. diolus failed to give the most perfect satis The culture is very simple. Set the bulbs | faction, opening a new field of beauty to from six to nine inches apart, and cover those unacquainted with its merits. For about three inches. If set in rows they in-door decoration, such as ornamenting may be set six inches apart in the rows, the dining-table, schools, churches, &c.,



### HIGH PRICE OF FOWLS.

73

The great scare ty of fowls in our market and the high price baid for them is the cause of much complaint among our nouse keepers. Raising and fattening fowl pays well; on every farm there is the acility for feeding them, and yet they are scarce in the market. Will not our farmers' wives and daughters procure a greater supply for the demand ? The State of lowa cannot boast of a climate or soil equal to that of Canada, and there they make quite a good thing by poultry. We give one instance: - Mrs. Gage, in Story County, raised six hundred Brahma chickens that weighed from six to litteen pounds. She led them on corn meal, wheat screenings, and the coarser grams of the farm, with sour milk. She says she can raise a pound of poultry with as little trouble and expense as a pound of pork, and she can sell it for twice as much. What she has done there can be done as well here. Otten a neglected spot, a waste corner in the farm, can be turned to good account by growing something to aelp in feeding the fowl. In such places let sun-flower seed be sown; the abandant seed they produce will be a choice addition to the food of the poultry yard. And besides, the bad air that arises from some damp places will be deprived of much of its mjurious influence to the health by the abundant growth of the sun-flowers.

### OUT WEST.

SIR,-I am sorry I have not more time on my hands which would afford me the opporu ity of sketcoing you a general outline of u. pr gress and prospects up west.

I have intended to correspond, in a very numble way, with the London p cis. I hisk we owe it as a debt to the press to give a corc ct account of any pleasing features that the fice of our country allo ds through the flood a int digence pouring through the columns of the many useful periodicals with which our province is favored, in its practical application ve all derive a ben fit.

The western portion is evidently designed to eventually become a large dairy district. The benefit of this to the community, when it is fairly in operation, can hardly now be estimated. In my humble opamon the day is just dawning when ten of thousands of weath will find its way into our section of country for our exports of dairy products, where now little or nothing is afforded.

We have now in operation in one section, an area of not more than 4 miles, 4 cheese factori s, named respectively, Butters, Shaw's, Wilson's and Webb's in the Township of Howand, also one in Orford, Barr's factory. Peo-ple ar-waking up to the rown interests in these matters, and so far as the ope ation under my supervision is concerned I can speak positively, having secured nearly 200 cows as patronage to begin with, and having seen one of the best operations that I am ac. u nted i i h in Canada, viz., the London North Branch Cheese Factory steam appliance for mampulating and carving cheese, have taken what I term the model factory as my pattern, which is new in operation. To appreciate the ar-rangement, it must be seen. I tound Mr. E. S Harriss, the cheese maker whom the compary have been fortunate enough to emp oy. a ery obl ging and accommo dating gent eman. His cheese made in this factory last seasen is rep r ed from England by the English purchasers as very hands me, and equal to the hest Canadian they had ever seen. This, Mr. Editor, 1 think will justify my statemen s. We have made theese out west which stands No. 1 in the English market, and we intend to keep up our reputa in and not be behind London or any other section in Ontario. This is one of the great a lyan ages of such papers. When once a man acquires kn wh dge he i always anxious to acquire more, and to p it it into practice. He is no longer c n'ent to move on in the eld track, he wil go on improving, and is at all times willing to help forward the good work of improvement. You ere the times above me tioned to spinach, will estitled to the gratitude of the normers for the afford an about a t supply for a caverage sized many useful lessons y in have given the m in the ADVOCATE an | for bringin; them out to

RURAL LIFE.

Statistics teach us that farmers live longer lives than any other class who perform labor of a mechanical kind, and that they are excelled in a mechanical kind, and that they are excelled in longevity only by those who work with the brain occasionally, as preachers, orators and public speakers. And the probability is that considering the healthfulness of their employ-ment a d the general freedom from annoving cares and anxieties which they only, their lives might be come relatively the most and where did might b come relatively the most enduring, did they exercise care in choosing their d et and in preserving themselves from sudden chills during the most trying season of their labor, that of harvest. It is then that most farmers contract diseases which are sooner or later fatal to them,

LILIUM AURATUM

LILIUM LANCIFOLIUM. LILIUM LONGIFLORUM.

it is unsurpassed, making a magnificent display with little trouble. In the fall. take up the bulbs, let them dry in the air for a few days, then cut off the tops and store the bulbs out of the way of frost, for

next season's planting. Look at them occasionally. It kept in a place too moist, they will show signs of mildew. If this appears, remove them to a dryer position. If the bulbs shrivel, it shows they are getting too dry ; but they do not usually suffer from a dry atmosphere. In all foreign and American Catalogues several varieties are described as white. I have made descriptions as found true in my made descriptions as found that in my own grounds, but to prevent disappoint-ment, will say I know of no reliable pure white Gladiolus. Round-leaved or Samner is the best value, for spring sowing, and if sowed as early as pos-sible, will be large enough to commence cutting the latter part of May. - Country Farmer.

Long before green | ess are ready for use, farmers' wives wander a out the fields or marshes, or fence corners, or the road side, searching for dandelion, or mustard, or cowslip, or some still viler weed for g. eens.

SPINACH.

Now, by a little care and labor in the early part of September and as soon as the ground can be worked in the spring, every gardener can have the best of gree s upon his table from the midd e of April until the time of gree | pea-'In se or four square rods of rich soil sown tomily. The ground should be very rich, should the ADVOCATE and for bringing be spaded deep and fine, and the seed covered help the inserves and one another. about an is ch in drills one foot apart.

With thanks for the interest you have take in the welfare of Agriculture, I am, Yours, W. H,

Ridgetown, April.

There is no better

### SEED TEST.

74

SIR,-In renewing my subscription for the ADVOCATE. I would inform you how your seeds succeeded with me. The McCarling Wheat did not do as well as I expected but the fauit was not in the wheat for the ground was not suitable. I intend to give it a fair trial this year. The Potatoes are first-rate. The Bressee's Prolifics produced a very large fie d Bressee's King of the Earli's are the ear lest and most productive early potatoes I ever raised. The Caic) is an excel ent potato, a good cropper, and first class for table use.-Berssee's Prolific is an abundant cropper. The Ciumax is also an excellent potato. In fact all the potatoes you sent me I can recommend GEO. MONGER. highly. Fergus, April 10, 1872.

### SEED TEST.

SIB -The following is the result of my experiments in your seeds :--McCarling Wheat, sowed 7 ib. of seed on the 10th of April, and harvested on the 8th of August; yield, 2 bush. and 10 lbs. of c can seed. Bre-see's Peer-less potatoes, 15 lbs. of which produced 14 businels of excellent quality and very large, 4 of them weight g 8 lbs. King of the Earlies 15 lbs. of which yielded 10 bush. and 22 lb. They were 10 days earlier than the Early Rose variety, and were equal in quality. lbs. Prolific, yielded 8 bush. and 10 lbs. Ibs. Excelsion yielded 1 bush. and 30 ibs. 14 Ibs. Excelsion yielded 65 ibs, of very good quality. G. G. quality. Thamesford, March 5, 1872.

A SURE CURE FOR CANADIAN THISTLES.

SIR,-You say any one that can use a pen can write for the paper, but I think you are a httle wrong for I can use a pen in a middling sort of a way but witting for the paper is an-other thing alt gether. However if you will promise to correct all my mistakes, I will give you a recipe for koling Canadian thisties.-Pough early in the fail, and manure where the thistles are; cutivate club to make the land clean; seed down with barley and half a pound of clover per acre, and mind early seed ing to get a good crop the following year; then cut for eeed about the 20th of June. Mix some timothy and cut for hay; pasture two years. Sow a good quantity of sait where the thistles are mulching, which makes the thist'es grow hollow. By this method I killed half an acre of them.

### A WARNING TO FARMERS.

Having purchased 6 bushels of the Milwaukee Club Wheat in London, at 15 shillings a bushel. I sowed it on the 4th of April on 44 acres of my best land. I expected a great yield, but I thre-hed only 7 bushels per acre of long weak straw, though good wheat. I sowed 24 bushels of Fife Wheat, which gave

country for the growth of roots, and during our hard cold winters all the beets could be worked up, without their becoming too dry, as is the case in milder climates. The great as is the case in milder climates. The great difficulty is in our foundries and the working hands. The workmen in the foundry when asked to make the machinery for a sugar factory, ask what you want and say they think they can make it, but cannot tell you the cost as they never made any before; and then wh nit is made, you have to pay for various patterns they had to make; and, also, you have to pay a little more than the regular price for the masonry. It required more than ordinary time, being the first of the sort, and, on the whole, there is a good deal of loss tefore things are in the way of working. I do net blame the workmen, for how can they do otherwise? What they have never seen they cannot expect to do.

country for the business.

Our Government should give some encouragement to the first factory; the second would be easy. The State of Cal formia gave for the first factory a bonus of \$30,000. For the fir t one I would not ask that amount from our Government; I would be satisfied with a bonus of \$20.000, or even \$15 000, a sum barely sufficient to pay f r the losses in the first successful attem t The next would a 'e the benefit of our labor. M. KRAFT. Bridgeport, April 12 1872.

### DISCOURAGING LETTER FROM RENFREW.

SIR,-Enclosed find the price of the Mc-Carling wheat I ordered.

This section of country is anything but an agr cultural one; being a pine region, there is not much agricu ture carried on, and labor is so high that farm help cannot be employed on terms that will keep farmers safe. Laborers must have a dollar a day. In short, this is not a farming country. J. HALLIDAY, SR. Bayat Pt., Renfrew. April 16, 1872.

## THE 'ADVOCATE' THE FARMERS' PAPER.

SIR,-Enclosed is the amount of my subscription for the Advocate for this year. I like it better than ever, and thick that no tarmer should be without it. It is the paper GEO. DIX. ior farmers.

## Tavistock, April 7, 1872.

### NEW SEEDS IN THE NORTH.

SIR -In ordering a fresh supply of seeds from the Emp rium I give you the results generally. California White Oats, excellent; generally. California White Oats, excellent; Scotch Potatoe Oats did exceedingly well; Black Tastary, a great crop, but 1 am sorry they sell so well as some others; Chevalier Barley, a good crop and good grain; Early Rose Potatoes and Bresee's Prolific are really splendid, dry, and mealy; Hamson potatoes aso turned out well; California Peas-every farmer should have them-great croppers and

frost, but then they will be damp, and the long confinement is ruinous. Many who stowed them in pits and cellars have lost all the present winter.

The season appears particularly unfavorable to the bee-keeper. The past has been a lesson which we should all profit by, and if our hives are not the best, now is the time to procure the best double-wa led hive the country produces. Obtain an Italian stock to be-gin with; go into bee-keeping intelligently, and, as in any other business, you may expect B. LOSEN. to succeed.

Cobourg, April 15th, 1872. SEEDS.

### HORSE BEANS.

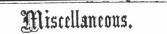
SIR,-I have grown horse beans the last 10 years, and would not be without them ; they pay me better than wheat. I differ a little from Mr. Hollings in my mode of setting .-I plant in drills from 17 to 20 inches apart, 2 bushels to the acre, cover with the plough the same as potatees and before the beans come through I harrow the drills lengthways thuroughly, so as not to disturb the beans ; after they are 5 or 6 inches above the ground, I run the plough through them, throwing a little ground up to the rows, which I consider adds one-third to my crop. New Lancaster, April 2nd, 1872. T. BUNN.

# WHEAT AND OATS.

SIB,-As I am a subscriber to your paper and one that has received some good from us pages, I wish you every success with it and the Emporium, and think they will do a great Emportum, and think they will do a great amount of good to the country. Four of us got one barel of seeds, potatoes, c. from you last spring, and as you wish information and I see a good account of the McCarling Wheat, I will give you mine:—I sowed  $7\frac{1}{2}$ lbs. in my orchard the last 9th of May, from which the bard and changed 5 hus de and 2. which I threshed and c'eaned 5 bus' els and 3 lbs. of go d wneat. I should have had more, but the mice and hens destroyed some. It was sown very thin in drills about 16 inches apast ; it grew about 34 feet high, was stiff in straw, and stooled out very much. I am not much in favour with bearded wheat, but if we get the wheat we must not mind beards. Also. from 74 lbs. of Baltic Wheat I threshed three bushels and 20 lbs. of excellent wheat. It was sown along side of my Gasgow Wheat; it had not as good ground as the McCarling Wheat or I think it would have done better.— Of the two wheats I prefer the Baltic, my McCarling Wheat being a large, coarse sau-ple, while the Baltic was beautiful. I have not seen any ac ount in your paper of the flouring qualities of the McCarling variety.-However, I am going to Live both kinds a fair trial this spring, and then I shall be better able to decide which is the best.

From one peck of Black Tartar Oats I had

to 15 bushels per acre more than the Glasgow Wheat. One thing I can certify to is that the farmers in the adjoining townships that have heard of it are so keen to get it that they would give most any price for it; but they cannot get it now for love or more. I must conclude my letter by saving that feed is very scarce here just now. A FARMER IN MIN TO Clifford. April 6 1872.



PARASITIC PLANTS. DELETERIOUS TO WHEAT.

How often do we hear farmers remark, we will have no smut this year. we have so many black heads, and even with these remarks, should we examine the black heads we will find some smut kernel or arrested spore balls. Many of the ergots in different cereals are of this family, and confuse the student when their growth is checked by those multiple changes which seem to follow natural laws as secondaries to primary forms, as in minerals. They are different from all flowering plants in their chemical influence upon the air. They absorb oxygen and exhale carbonic acid, performing the same office in this respect as ani-mals. The odor they emit in decaying is more of an animal than vegetable matter, and in fact the spores of some of the fungi are propagated and derive nourishment from the interior juices of plants, as the group of animals termed the Entazoa, such as the trichine spiralis, derive their nourishment from the muscu-lar system of the hog. Therefore, we can come up to this conclusion that parasitic plants in the vegetable kingdom prey upon and absorb the juices of p'ants, both in the interior and exterior, as the animal parasites, such as trichinæ. tane worm, and lice derive their nourishment fr m either the interior or exterior of the animal they prey upon.

There is another phenomena which all practical farmers and horticulturists understand, which is that the more feeble the animal or plant is, either by starva ion or physical decay, the more it is subject to the attack of parasites. The strong and healthy colt or calf is never t oubled with lice except when exposed by mingling with weak stock The abundant orn crop of 1871 is not troubled with the fungi growth of smut as in years when corn is weakly, caused from long coming up at planting time. We hear no complaints of cattle dying when turned into corn stalks this last season, shows that smut has something to with the deaths of former years.

Let us as practical farmers take into consideration the cause of smut being in our wheat crops and we find that seed sown and mucked in'e wet and slushy ground, is more apt to be smutty in harvest than when the seed is sown in a dry hed; a'so that spring wheat, when sowed early or out of season, and the seed just ready to sprout or swell, and if checked

### wheat, co or bad fai great nati sorb the j Iowa Ho

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wheat cru proper an In our pr and plant plowed in upon the of the ba sowed wi subjected barn-yar worms, ] cause of pure and of plants and thri to be pl yard ma corn is c ground o row the and roll where y to being is reinov by deep barn-ya prepara Expe my farn a satisf no such worm.

> plained found i duces t quality wheat, these a some used in cannot Scotti Barley food in comm equall theref be acc benefi overlo same whole Af

SIR,

50 bushels, with no weeved, and was shorter straw. I recommend the Fite Wheat. AN OLD SUBSCRIBER.

Westminster, April 8th, 1872.

### BEET ROOT SUGAR.

With the greatest pleasure we give insertion to a communication from one who deserves well of the country. He has, at a great out-lay of money and labor, suce-eded in an enterprise that will, if property supported, be a source of great wealth to the farmers and to the wife e Domi ion. No men are more deserving of encourage ment than these who, in spite of every discouragement, commence and per evere in such undertakings. We have had experience of what it c sts to start and carry on enterprises unaided by any one in authority. Mr. Kraft should receive a good bonus from the Government, and if they sincerely desire the success of agriculture and agriculturists they will give him all needfu. support.

SIR,-I send you some of the first beet sugar that we have succeeded in making after two years of hard labour and much money spent; but at last we have had the honour of having manufactured the first beet sugar that was ever made in Canada. It was the m st difficult task I ever undertook, and had I not had Mr. Melins in with me to assist me, it would have been impossible for me to have made one pound of sugar; but the doctor is a good chemist as well as a good machinist, and we succeeded in making 50 lbs.

We now know from experience that over \$10,000, as I s ated n my last letter would not only be insufficient to start the first fac-

rich. Let me have the fresh seeds named in the accomyanying list of 27 new varieties. Ĩ would add-I advise every farmer to take the Advocate and profit by its advice. A. H. R. Avonmore, March 22, 1872.

# APIARY.

The past winter has been the most disassafe and in good condition in the op n what I would with. fectly air, without any care whatever; certain posi-tions have been favorable, and where stocks pear to have escaped the damp that was so fatal. It is said that a "w.nter's fog wid the wheat.-[ED.]

freeze a dog," and we find that immediately after the misty weather in February, our bees became charged with damp, and the cold weather continuing, with no sun to relieve them, they were completely exhausted, with plenty of honey at hand. Now, what do we learn by this sad experience? We find our bers peristing, and how to dry them is the question .--

Bring them to the fire in a warm room, and the fr st and ice melts and falls to the notnot only be insufficient to start the first fac-tory for the purpose, but it would not pay the losses. I am convinced that if once started there would not be a better paying business in Canada; nor is there in the world a better

just about 10 bushels of good, plump oats. but these are not a main oat as I always thought they were.

The Potatoes I got from you were all cut so with the summer frost that I barely had seed again, but some of the other parties who got them had good yields from them.

Will you please inform me what d fference in appearance there is between the Baltic and G asgow wheats; when they were growing last trous one on record to the bee-keeper; never summer I could see none. only that the Baltic has the loss been so great. It has been wide- I got from you was a purer sample. We has the loss been so great. It has been wide- I got from you was a purer sample. We spread, both far and near, in many cases have had three feet of snow on the level here, whole apiari a perishing, both large and small, | and we have had no thaw to raise the springs, leaving not a single stock to begin with. The so a great many wells are dry; we are also loss has been enormous, some losing 40 or 50 very scarce of feed, yet we hope we shall soon stecks-the accumulation of many years. No have a thaw. Please receive this letter from stocks—the accumulation of many years. No mave a thaw. These receive this letter from doubt the loss has been ninety per cent. of a plain farmer, who likes good stock and the bees kept in these counties. But strange seeds and grain, but like a good many more to say, some have wintered their bees per- that are clearing away the forest, cannot afford JAS. BENCROFT. Artemesia, April 5th, 1872.

We hope our readers will come to our

### SEEDS.

SIR,-I have shipped to you half a bushel of bed chaff or Farrow Wheat, and half a bushel of Famin Oats which were imported from Famin, a port in Germany. They are a while oat, very smooth and have no long tails to them ike the Norway Oats and some others. They are big croppers averaging from 75 to 80 bushels p r acre. The wheat tom; the nees become revives and go to the is not my own growing; I bou ht it in the I answer, in the same manner that we get

by a hard frost so as to enfeeble embyro life, will have the same effect in developing smut as when wheat is mucked into the ground.

Farmers from long experience know the effect of sowing wheat when the ground is in a bad condition and also know a remedy in steeping the seed in lime and ashes-we all know the effect of mixing alkalies with seed wheat in preventing smut-now let us examine the cause, so as to come to a scientific conclusion on the subject, and why quicklime. ashes, salt. urine, &c., should kill the fungi growth in cercals. All cultivated cereals have fungi spores in the shape of smut connected with their ripened grain; for instance, in examining with a microscope a kernel of wheat, we find in the smallest ends of the two lobes which form the seed. a fine silky fur, growing from the selicions bran-this fur, or velvet fuzz, is often filled with smut spores which has charged the kernel either in the field or in the thresh-Winnowing the wheat when dry often ing. has the effect of blowing away the smut spores, but should they be left in the seed when sown, and the season and ground favorable to their developments, we are pretty sure to have smutty wheat from this cause. Wheat when sown, and lies long in the ground before spronting, from cold and wet, or frost, gives the embryo plant a sickly nature, and also gives the snut spores a chance of being absorbed in its juices, which by a process of fungi reproduction impregnates the whole system, as trichinæ affects the hog.

Now, how shall we get rid of the scourge ?--

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are in me sha at ne Glasgow is that the that have that they but they I must feed is very R IN MINTO

TO WHEAT. remark, we ve so many se remarks ads we will spore balls. ereals are of udent when ose multiple ural laws as in minerals. ng plants in e air. They nic acid, perspect as aniying is more tter, and in gi are propain the interp of animals trichinæ spim the muscu-, we can come c plants in the d absorb the ior and exteras trichinæ. nourishment

which all pracs understand, the animal or physical decay, k of parasites. calf is never exposed by he abundant with the fungi corn is weakly, planting time. le dying when season, which g to with the

or of the ani-

take into conng in our wheat rn and mucked nore apt to be he seed is sown g wheat, when and the seed

wheat, corn, or oats, either by over cropping or bad farming, all the fungi parasites in tha great natural struggle for life will try to absorb the juices of the plants they prey upon.-Iowa Homestead.

THE APPLICATION OF MANURE FOR WHEAT. By F. Watte.

The experience of many years has led me to the conclusion that the deterioration of the wheat crop is mainly attributable to the improper and untimely use of barn-yard manure. In our practice, the clover sod is turned down and planted with corn. The ground is again plowed in the spring, and sowed with oats, and upon the stubble of this crop all the manure of the barnyard is put; then plowed again and sowed with wheat. This delicate plant is thus subjected to the rawness and grossness of barn-yard food, with all its germs of flies, worms, lice and bugs-seemingly a sufficient cause of the unsuccessful growth of a grain so pure and delicate as wheat. Corn is the hog of plants, and will devour food of any quality and thrive upon it. Here, then, upon the sod, to be plowed for corn, is the place for barnyard manure. Bury it deep, and when the corn is cut off, break the stubble even with the ground during the winter. In the spring harrow the ground well, sow your oats upon it, and roll it. You will thus keep your manure where you put it, and not subject the oat crop to being thrown down by it. When this crop is removed, bring your manure to the surface by deep plowing and thorough tillage. The barn-yard manure having thus received proper preparation, is a fit food for the wheat point.

Experience has taught me this lesson. On my farm in Pennsylvania I never fail to raise a satisfactory crop of wheat, and I have known no such thing as midge, Hessian fly, or army worm.

BARLEY MEAL.

SIR,-It is a singular fact, not easily ex plained, that barley meal is an article not found in the markets of a country which produces that gram in abundance and of fine quality. We have the meal produced from wheat, oats, iye, corn, and buck wheat, and these are everywhere used for bread or food of some kind, while barley meal, so commonly used in Scotland and many parts of England, cannot be had anywhere in the Province.— Scottish song has honored the "Bannocks of Barley Meal" as a common and wholesome food in the Fatherland, and the meal is also as common there for porridge as oatmeal, and is equally recommended and wholesome. How, therefore, can its absence from all our markets be accounted for ? Are we reaping so much benefit from breweries and distilieries that we overlook the profit to be derived from the same grain thus wasted, if turned into cheap,

wholesome food ? A flour dealer, in Toronto, wanted to get a

Don't Think to Please All. Don't think, as you pass on the journey of life, That you'll always be clear of the "waters of strife,"

FARMER'S ADVOCATE.

That fortune will always befriend you ; Don't foully imagine you'll never receive A stab in the dark or a thorn in your sleeve, That friendship will always defend you.

Don't think you shall always get praise from your neighbors, Don't think to please all with your well-meaning labors, But guard against inward vexation ;

Don't think disappointment will never rebuff you,

That envy, or hatred, or pride will ne'er cuff you,

That blessed will e'er be your vocation.

If you should but a little conspicuous stand, Ill will and i l nature place out the hand To bother, annoy and distress you; Great holes will be picked in your decentish

coat, And slander will send the false rumors afleat, If fortune should slightly caress you.

The woold is composed of a termagant crow,

The knowing ones many, the ignorant few, All biting and spiting each other; They are scorning and flouting, lampooning

and louting, Distorting, detracting, and sulking, and pout-

ing, And raising a dust and a bother.

There are some who are always inimical, cynical,

Satirical, comical, mimical, finical, Who set themselves up as your judges; There are some hypercritical, some hyperboli-

Some hypothetical-hypochondriacal

Hypocrites, owing you grudges. There are always some acting as factious ob-

jectors, Conceited advisers and stupid directors,

All telling you what you should do; There are ignorant complainers, all snarling and squalling, With ready fault-finders, all pulling and haul-

Knowing all things far better than you.

Don't think to please all, for that rule isn't

pr.ctical, But don't think to wander through life misan-

thropical, But rather forgive and forget; A fig for man's judgment-that mind may be

sounder Which is always excited and ready to flounder

In the bog of a stew or a fret. Don't think to please all, but then never turn

erusty, And se fish, and snappish, and nasty, and musty,

Don't shut yourself up in your shell; If you can't please your neighbor, why please your own conscience, The world's fine opinions are clamor and non-

sense, Never fear if you always do well.

SUNDRY LETTERS.

ing, and not one-thousandth part of our aralle land is so situated as to be easily irrigated from the mountain streams, which cross the valley. But wh re we can irrigate, everything can be raised in the greatest perfection; - the common fruits of our northern homes and the most delicate of the tropics may be seen growing side by side.

Everything that anybody would ever think of weighing sells here by the hundred pound. Land is worth from \$5 to \$50 per acre, with some Government open to settlers, which can be bught at \$2.50 per acre, Government having raised the land in this Valley to that price. In conclusion, I would say that I have price. In conclusion, I would say that I have no land to sell ora ny kind of an aze to grind. I an eugaged in raising hogs. I have hundreds that have never been fed anything. They will fatten in the fall on the abundance of acorus,

are ki led, "baconed ;" and sold to John China man for twenty cents per pound, without ever having cost anybody a cent.-M. L. H.

# Houths' Department.

# UNCLE TOM'S COLUMN.

DEAR UNCLE TOM, -- What a jolly old uncle you must be! I wish I could see you, for I know you are just one of those kind of fellows that always have lots of candy in their pockets. And now I want to puzzle you. I saw this in a paper the other day : A C 80 C O A R 80.

A C SU C O A R SU. Can you make that out? I puzzled all the boys in the school with it, but the master said I had better be puzzling over my sums. Oh, what a bother sum are! I like geography what a bother sum are! I like geography bes, because that is where you find out about the animals, and the trees, and the people al over the world. I had a grand joke on Bill Simmons. Bi lis head of the class in arithme-tic, and he says there's nothing shows smart-ness so much as arithmetic. I said: "Look at that here tarring up the nexture." that hog tearing up the pasture; he may not alwa s be posted in arithmetic, but when you come to square root, he is there, the hog is." Oh, how the boys did laugh. But I guess I have written enough, so good bye for this time. BOB JOHNSON.

DEAR UNCLE TOM, --- I like you because mam-ma says she thinks you must be a real nice old man. I wish you would write some nice little rhymes for us. There's Willie, and Baby, and Juli + (that's me). and we know mother gives Julia (that's me), and we know mother gives songs that are real spiendid, and we want some more. Willie is four years old. The other day mamma gave Baby a piece of cake but when she went out of the room Willie took the cake from Baby and eat it. I said: "O. Willie, you could not take your little sister's cake" you ought not to take your little sister's cake. He said : 'didn't ma tell me I was always to He said: 'difint mastern mer was anways to take her part?'' I want to tell you about an examination at school. One of the visitors asked: "What is the chief use of bread?" Willie shouted out: "To put butt r and me-lasses on, of course!" I will write to you expin some other time. I am your loving again some other time. I am your loving nicce, JULIA MOSOROVE.

# UNCLE TOM'S REMARKS.

Bob need not feel so tremendously smart over

I have received a very interesting composi tion from another nephew. Here it is: "The Throa. —A throat is converient to have, cspecially to roosters and ministers—the former eats corn and crows with it; the latter preaches ith his'n, and ties it up.-Johnny H." But he has forgotten that the threat is of especial convenience to him for swallowing candy. You see what a smart lot of nephews and nieces I nave, but smartness is not always appreciated. One of them after no icing for some, time the One of them after no foing for some time the glittering gold filling in har aunt's front teeth, exclaimed: "Aunt Emma, I wish I had cop-port toed teeth like yours!" But I think I have said enough for this time. Study out the puz-zles and send me the auswers. UNCLE TOM.

### AUNT KATE'S HOUSE-KEEPING.

Well, you know, I ain't been married very long, and keepin' house is kind of new to me, so I tries most everything as comes along to see if it be good, and I makes many and many a blunder. I says to myself, says I: "wouldn't it be grand if somebody who had made all these blunders afore should have said so somewhere, and then they'd been a warnin' till us." So w on Ben kem home (Ben's my husband, he is), "Ben," says I; "wel, Kate," says he; "Ben," says I, "I'm going to write for the FARMERS' ADVOCATE, and tell my experience there, and that'll be a saving to many a farmer and his wife." "But," says Ben, "they all gets their almanaxs and receipt books as teaches how to cook, and so on." "Yes, but," says I, "its ju-t like the writings of them scientific far-mers, there's good in them no doubt, but their blunders afore should have said so somewhere. mers, there's good in them no doubt, but their ideas want to be xperimented on first, and

ideas want to be experimented on first, and then if they turn out well, why, all right." That's just what I mean to do; if any cne says that such and su h is go d, I'll try it, and f it is good, I'll say so in the ADVOCATE, and, if not, why maybe I'll say that too. So Ben he 'greed, and that s why I write The hearth and that so why I write

The lengthening days remi d us that warm weather is at hand. Every bright morning all the rooms should be well aired. Don't be afraid to let the sun come into your houses. About this time spring cleaning ought to be commenced; don't neglect that, for who can be confortable in a house that is dull and dingy from the smoke of the winter fires. When from the smoke of the winter fires. summer comes let it find us bright and clean,

ready for it. I tried a washing fluid the other day, and as I tried a waying find the other day, and as it works well. I give it: 2 lbs. sal. soda. 14 lbs. quicklime; dissolve the lime as for white-wash. Put the soda into five quarts of rain-water, and then put together and boil half an hour in an iron pat. Then add five quarts of boiling water and put away to settle. Put the clothes to and put away to settle. Put the cloth soak in clear, warmish water, over night, In the morning soap them and put them to boil in water to which the fluid has been added, in the proportion of one pint of fluid to five pailsful

I want to tell you about an behool. One of the visitors is the chief use of bread?" It: "To put butt r and me-irse!" I will write to you r time. I am your loving JULIA MOSCROVE. TOM'S REMARKS. rel so tremendously smart over have found it out already; he rest of you find the answer 'I here, now, I guess that'll do for this time.

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and if checked le embyro life, eveloping smut the ground.

e know the efground is in a a remedy in l ashes-we all alies with seed v let us examine cientific concluuicklime. ashes, fungi growth in als have fungi connected with ce. in examining wheat, we find two lobes which r, growing from or velvet fuzz, is hich has charged r in the thresh-when dry often the smut spores, the seed when ground favorable e pretty sure to a cause. Wheat he ground before t, or frost, gives hature, and also hance of being by a process of

of the scourge ?mer that we get nd colts ; feed the give it a dry bed ave little trouble stunt our young

ates the whole

e hog.

quantity of barley meal to sell to his custom ers, but could not obtain it; and so anxious was he to be sup hed, that he offered the proprietor of an oatm al mill to put up all the requisite machin-ry in his mill to produce both pearl barley and barley meal, if he would consent to it on fair terms.

In the south and west of England, I am told, barley flour is extensively used for loaf bread, and its sweetness and lightness lead many to prefer it to the fine wheaten loaf .-How much would the suffering poor also be benefitted by the cheap bread which could thus be supplied.

I have no doubt that were our cat-meal millers to connect with their establishments the manufacture of barley meal, they would find it a lucrative branch of their business. A FRIEND OF CHEAP BREAD.

### WHO IS OLD?

A wise man will never rust out. As long as he can move or breathe he will be doing for himself, for his neighbor, or for posterity. Al-most to the last hour of his life, Washington was at work. So were Franklin and Young, was at work. So were Frankin and Young, and Howard and Newton. The vigor of their lives never decayed. No rust marred their spirits. It is a foolish idea to suppose that we must lie down and die because we are old. Who is old? Not the man of energy, not the day labour in science art or benevolence : but day laborer in science, art or benevolence ; but he only who suffers his energies to waste away and the springs of life to become motion ss; on whose has ds the hours drag heavily, and to whom all things wear the garb of gloom. Is he old ? should not be put; but is he active ?-can he breathe freely and move with agility? There are scores of gray-headed men we should prefer, in any important enterprise, to those young men who fear and tremble at approaching shadows, and turn pale at a lion in their path, at a harsh word or a frewn.

1 am writing to you from the exact latitude

of Philadelphia, and just one mile from the Pacific coast, at the head of navigation on the Sacramento River. Our year has but two sea-sons - Wet and Dry. The season closes May 1st, or thereabouts; the dry season lasts from May till Decemb r-all this time without either rain or dew, the sun shining every day from the cloudless heavens, and heat ranging from  $65^{\circ}$ to 110° in the shade. The earth baked like a brick, and all the luxuri int annual vegetation dried like hay, while the tres and a few hardy perennial plants alone remain green. During this time herds of cattle-tine, sleek fellowsfeed and fatten on the nutritious seeds of the dry herbage of the p ains, loll beneath the shade of our caks " on a thousand hills," or stro l along our bright, clear creeks that everywhere cross the plains, running from the snow-capped moun-tains on eith r side of the valley to the river. And the farmer sits on his mower, reaper or header and cuts his fields of hay or grain, leav-ing it loose in the field - no bad weather hereto be gather d up at any time within the next five months. And then such day's work as we do! No moisture in our straw or grain ; a machine that can thresh 400 bushels per day in the Mississippi Valley can easily thresh 2,000 here in the same time! And then such grain, too ! plump, bright, large, clean. Well, 1. obody ever saw so much of good grain whe has not been in California.

Grain is raised here with one fourth the labor that it is on the Mississippi or its tributaries; and it costs absolutely nothing to raise stock. I can see hundreds of head from the window by which I am writing that have never been touched, or cared for, except to mark or brand them. We never feed store other than work animals or milch cows We have no snow here, and no cold weather, save a few fr sty

nights in winter. But here is one drawback : We can raise not he need not mention to his sister that he is go ing to do so. vegetables, and but little fruit, without irrigat.

his puzzle, for I have found it out array y, however, let all the rest of you find the answer too. But Bob, you ought to be fond of your arithmetic just as well as of the geography. be-cause without arithmetic you will have a hard of the your of the your state you. cause without arithmetic you will have a hard time to get along in the world. I like you, Julia; you are an unselfish gul I am sure, and you are very fond of your father and mother, and brother and sister, but you must no en-courage Willie's sharpness, as he is evidently a little selfish. Next month you shall have some followhere our safe for

of the rhymes you ask for. The a swer to the charade last month is ' Snow-ball.'

Well, youngsters, how do you feel this and nieces. One affectionate mamma says :-" I believe I've got the tenderest-!.earted boys in the world; I can't tell one of them to fetch in the world; I can t ten one of them to fetch a pail of water, but he'll burst out a-crying :" I can only say that if I was near them they'd be t nder somewh re else besides in the heart. I like boys and girls who do all they can to help I like boys and girls who do all they can to help their parents. Not, however, as one boy. I know did, His mother having made a bottle of nice preserves, labelled them: "Put up by Mrs. D." Freddy having discovered them soon eat up the contents and wrote on the b-t-tom of the label: "Put down by Freddy D." This may have been a good joke for Freddy, but it was hard on the preserves.

This may have been a good loke for Freddy, but it was hard on the preserves. One farmer tells me about a neighbor's son, who, hearing some one speak of the number of engagements an old soldier had been in, said :--"On, that's nothing, my sister M ry's be n engaged eleven tim s." If this youngster would onl write an account of the engage ments, do doubt they would be interesting, but

## HIDDEN ANIMALS.

1. Phonography enables me to live. AMASA pesters me terribly. Have you heard of the wild Catawba grape? 2. 3. See that enormous elephant ! The pine cone yields an excellent salve.

5. The pine cone yields an excellent sai 6. Can ghosts enter common keyholes?

6. Can ghosts enter common adjust.
 7. An Arab hitterly imploring alms.
 8. He can be a very good scholar.

9. I am a rebel. 10. I have not determined yet.

Answer next month.

### ACROSTIC.

As soon as melts the ice and snow, Prepare the plow, and spade, and hoe; Repair your fences; make them good; Improve your time; no farmer should Lose in the spring a single day.

Much will depend upon the way A farmer spends the month of May. Yeomen! don't trifle it away. J. T.AWSON.

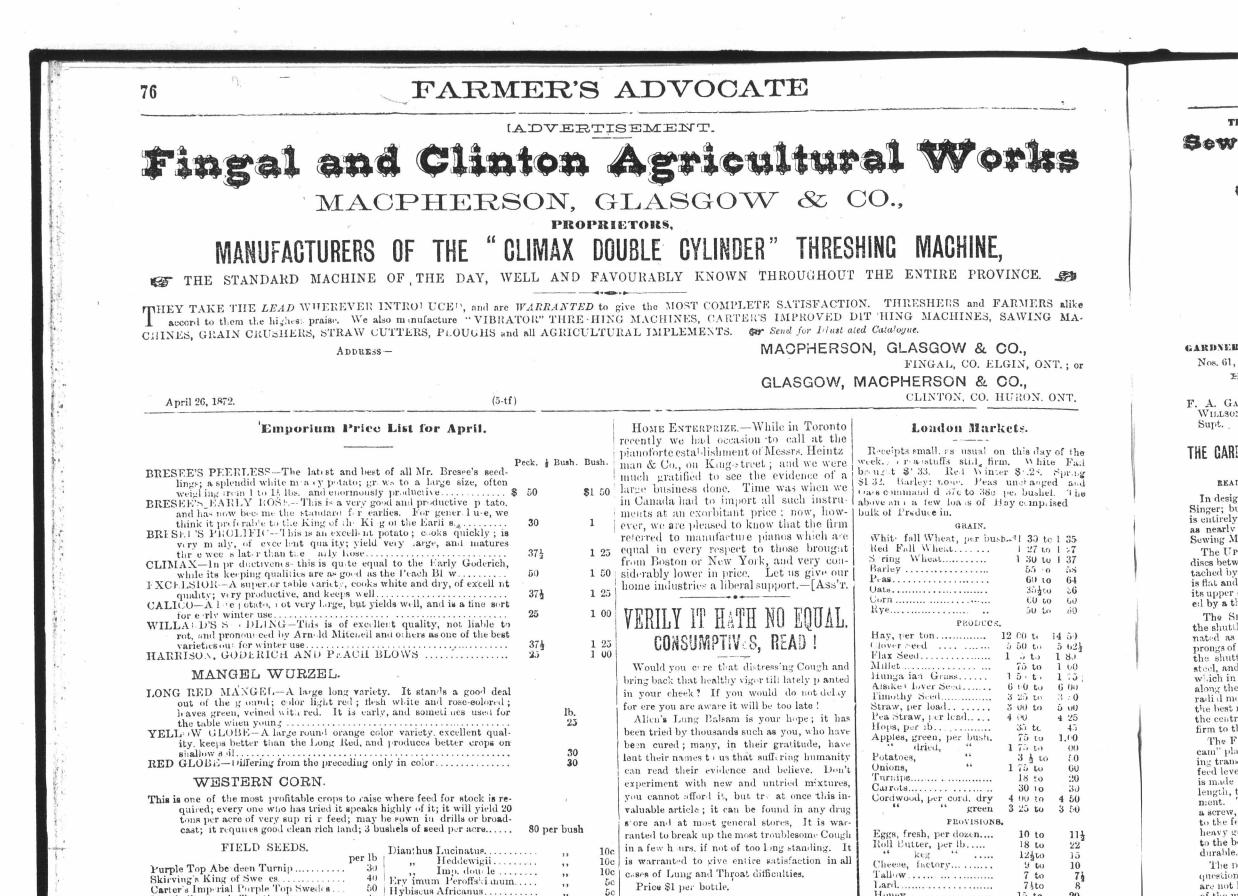
Battersea, April 4, 1872.

TELL THE TRUTH.

Boy, at all inters tell the truth ; Let no lie defile thy youth. If thou'rt wrong, be thine the shame: Speak the truth and bear the blame.

Truth is honest, truth is sure ; Truth is strong and must endure ; Fal-chood lasts a single day, Then it vanishes away.

Boy, at all times tell the truth ; Let no his defile thy youth. Truth is steadfast, sure and fast, Certain to prevail at last.



Purple Top Abe deen Turnip ...... Skirving's King of Swe es. ... Carter's Imp-rial Porple Top Swedes. ... Marshall's Purple Top Swedes. .... White Flesh S & ede Turnip .... per bush Long Yel'ow Mangel ..... Lang White Belgian Carrot, clean seed. Long Red C grat 50 50 Honey... 15 to 20 40 Larkspur Hyacinth, flowered .. 5c 5c PERRY DAVIS & SON, ., 50 HIDES. GENERAL AGENTS. Sheep Skins...... Lamb Skins..... 4 00 50 1 00 to Marvel of Peru. Marigold African. Providence & Montreal ,, 35 25 to Calt Skins, green per lb. 5c 35 March 18, 1871. Long Red C rrot. Early Farm Sho t Horn..... d-h-w-f 40 13 5c 10 00 ~ ~ ~ 1 25 Orange.... 5c 18 to cry..... 20 Osborn's Imperial Blood Red Beet..... 2 00 Lemon French dwa f..... Burlington. Osborn s Imperial Device The Devi ... 5c MEATS. 3 50 ,, 5c Leaving the East and ariving at Chicago or 6 (0 to Beef, per qr..... 7 07 80 Gold-s ri ed ..... French Ranunculus, Indianapolis, how shall we reach the west? The best Line is ach-wledged the C., B. & Q., join-ed together with the B. & M. Railroad by the 5c Mutton, per lb ..... ... Early Providence Pea ..... per peck 00 8 to 10 ,, double..... POULTRY 5c Mignonette. Chickens, per pair..... 5c Iroh Bridge at Burlington, and called the Burl-50° to 60 Obeliscari a Pulcherrima...... Ducks, ingtan Route. 50 to 75 Pansy, mixed..... Petunia, Countess of Ellesmere SEEDS FOR TESTING. The main line of the Route running to Omaha, connects with the great Pacific roads, and forms to-day the leading route to California. Liverpool Markets. 100 Petunia, Flotched and striped, Phlox Drummondii, m.xed GF A small quantity of each of the following 10c and forms to day the leading route to California. The mi dle Branch, entering Nebraska at Plattsmouth-pass stirough Lincoln, the state Capital, and will this year be finished to Fort Kearney, forming tesh rest route across the Continent by over 100 mills. Another branch of the B. M. diverging at Red Ook falls is to a line running down the Missoni through St Joe and Karsts City, and all Kanses. Passinges by this role to Kamses we fillnows. Southern Iowa, and Wissoni and vari ties of seeds for testing will be sent to some person willing to do so. We have just imported ,, ,, blood purple April 20 22 23 24 25 them from Europe :-10c Salpizlossis, fine, mixed..... Stock 10 Weck, mixed..... Sweet William..... Cook's Foot Gr ss, Italian Rye Grass (im-Meadow Grass, Yellow Oat Grass, Smooth-stalked Meadow Grass, Yellow Oat Grass, Fall Oat Grass, Yarrow Oat Grass Beut Oat Grass, Created Dog's Tail, Meadow Fox Tail, English Zinnia, double..... 10c EVERLASTINGS. Italian Grass, Wo d's Meadow Rye Gras, Rough S alked Mcadow, Hard Fescue, Meadew Amaranth, purp'e gl be, 12 vas e lilinois, Southern Iowa, and Missouri, and by a slight divergence, can see Nebraska also. rieties.... Elichrysum Compositum Max-Fescue, Fall Fescue, Sheep's Fescue, Red Fes-5c cue, Marrow Land. Lover- of fine views should remember the Burlington R ute, for its towns "hich gleaming imum..... 5e FLOWERS. from afar' -- its tree-firinged streams--its rough bluffs and quarries its tree-fringed oceans IMPLEMENTS. Aster Truffauta.....per packet 10c ,, New Victaria......, 10c Montreal Markets. Carter's Patent Ditching Machine, impro-, New Vict+ria..... Alysivm..... As influum, mixed.... Balsam Cameliia, mixed double 10c stretching over the prairies further than eye ved, \$160. be Montreal, April 26, 1872. can reach. Stump Extractor, \$ 0, \$75 and \$:00. L ind-buvers will be sure to remember it, for 1(c Flour: receipts 2. 00 b rr ls; quiet, bu Grain Crushers, \$50, \$30 and \$10. they have founds among the two thousand who have alreasy barght farms, from Geo. S. Harrs, t e Land Commissioner of the B. & M R. R. at Barl agton, lowa, or among the four 10c 'tour receipts a one string that is a sofa at 'tour the string at the st Chaff Cutters the best kinds, \$16 to \$59. Little Giant Thr sher, \$185. 5c \$17; sales of supers on spot cance from \$615 Simpson's Ca the Spice, 25 cents per lb. White's Root Cultivator, iron \$15. to \$6.2 ; creinary to good \$ .30 to \$6.0 or 50 thousand homestea ers and pre-emptors who Forfar's Churns, and other Chur. s. strong. Chrysanthemman Convolvulus Major..... Grain: no transactions, market generally buoyant, but holders demanding rates above 10c last year tile : claims in the Liucoln land offi 'e, 19 Address- WM. WELD. WELD, where "Uncle Sam is rich enough to give us London, Ont. all a farm." 50 50

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The DURABILITY OF THE MACHINE cannot be

It will be observed that there is no gear of any kind, and that all the motions are derived from the sume shaft, —all the usual complicated shuttle and feed movements being avoided.

The TREADLE is adjustable, working upon The TREADLE is autoscape, working upon "centres" in brackets which are fastened to the treadle-bar, giving a light easy motion without any noise or looseness, and can be adjusted to give any required "dip" to either toe or heel of the treadle, besides taking up the wear or loose motion

motion. The WHEEL BEARING. The wheel runs upon a tapered stud or bearing fastened to the side of the stand by a nut with the bearing end turned to a centre; the wheel is bored tapering to fit the stud; upon the front side of the wheel a steel plate is fastened by two screws, which bear against the centre of the stud; the plate is adjustable, and screws to draw the wheel upon the tapered stud, taking up the wear and yet ranning easy.

The GARDNER PATENT is fitted with all the latest and most improved attachments. com-prising the following, which are furnished without extra charge:-

One silver-plated Sewing Guage, with thumb-screw. One silver-plated Corler. One silver-plated Tucker. One silver-plated Friller. One silver-plated Hemmer, which will hem to One silver-plated Hemmer, which will hem to any width. One Quilting Guage. One Bruiler. One Screw Driver. One Oil Can. One Bottle Oil. One Spool Thread. Seven Cloth or Leather Needles. Six Bobbins. Ex-tra Spring for leather work. Printed Directions.

durable.

Hamilius, UST, 71-6-18

of the works are enclosed in the arm, which is finely secured to the bed-plate, and set upon a walnut top or enclosed in half or full cabinet case, as may be ordered. RECEIVED AT KINGSION,

W. BELL & CO.,

First Prizes.

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At Western Fair, London. Diploma and First Prize for best Melodeon and Cabinet Organ of any kind. At Great Central Fair, Hamilton. Diploma and all the First Prizes.

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