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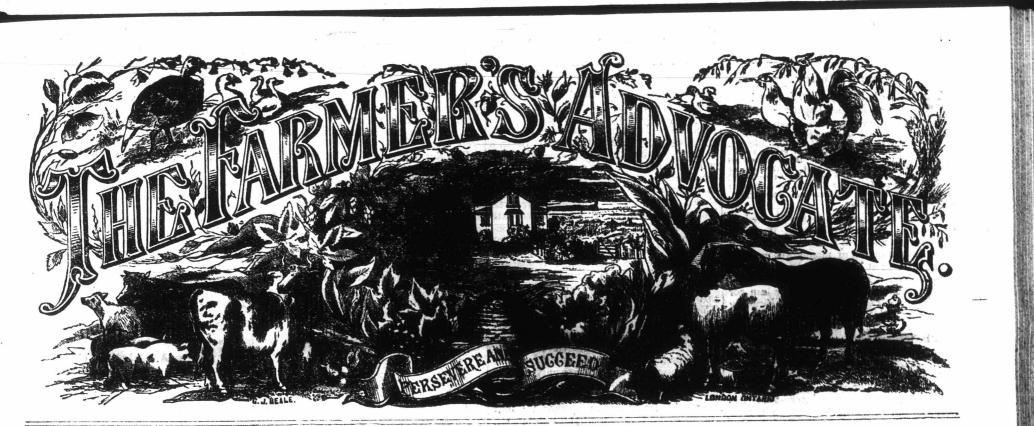
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WILLIAM WELD, Editor and Proprietor VOL. VII.

LONDON, ONT., MARCH, 1872.

\$ \$1 Per Annum, Postage Prepaid. } Office-Dundas St., Opp. City Hotel. \$ NO. 3.

INDEX GENERAL EDITORIAL. page Cheap Money...... 34

CORRESPONDENCE.

The Canadian Dairymens' Convention - 1872.

The Dairymens' Convention this year was not one jot behind its predecessors for useful information. We think it the best meeting of farmers that has yet been assembled. The most intelligent and most enterprising attend it, coming from a hundred miles. The useful information imparted there acts most beneficially on the country. Everyone that attended must have been highly gratified and well profited by it. Although the attend-ance- was good, there were not half as many there as ought to have been.

Mr. Willard delivered the annual address, and a masterly, entertaining, useful, and instructive address it was, and although long, it was listened to with breath-less silence. We insert a considerable portion of it in another part of this journal. The part that tickled the risible faculties most in the address was an at tempt to encourage the dairymen, who have much to contend against in the ignorance and tardiness of the generality of farmers. He desired to show the diffity there was in getting them out of the old beaten track and of improving them. He said that many of them had the hide of a rhinoceros and their ears were too long; how true the remark! The part that caused the greatest excitement were his remarks in regard to the condensing of milk, which business was shown to be far more lucrative. The demand for condensed milk was shown to be gradually increasing, and the profits were enormous. The morning after he had delivered his address parties were to be seen gathered in groups of twos and threes, discussing the subject.; we were among them, and one dairyman of the close-fisted class par-is to make the members of the Council of ticularly requested us not to give notice about this in our journal, as he wished to go into the business. There are, no doubt, many more that heard the address who have an intention of going into up for certain parties that now have a it and investing; we wish them leather patch at the stern of the breech. success, but would not advise all of you to The next consideration is, can it be patched neglest your present business, which is a up to be of real benefit to farmers or not ! certainty. Mr. Arnold, of Ithica, N. Y., also gave an address, and showed a sample of poisoned cheese ; we think we have seen ment have the management ? It is a quessimilar cheeses before. The cheese looked sound, but had a heated taste which he Parliament should even be eligible to take attributed to uncleanliness. Cleanliness in every particular was treated upon and the Mimico establishment be carried on, shown to be most essential.

to ten days earlier than any other variety, and the fruit is superior. It is heavy, full-meated and rich; of a large size and from a round to an oval in shape; red colour. The fruit hange more evenly on the vines than in other varieties, and the seeds are not so numerous. He says no seedsman in Canada can do justice to it; he never has parted with a seed, and has had it perfected and tried for three seasons, along with other varieties. He intends offering it to the leading seedsmen in the States, and will supply them with the seed to test themselves, and will not ask one cent until they are satisfied with its superiority.

Ny.

Two thousand dollars appears to be a high price for a seed, but the rivalry on the other side is so great to procure the best varieties that the gardeners there will pay a price that will not be out-bid by others having a crop on the market before them. We do not wish to invest in this, though we have paid high prices enough for seeds; we have paid \$3 per lb. for po-tatoes and \$1 for 5 seeds. But we are going beyond that price this year; we shall have some flower seeds that we will as any class of farmers in the country have to pay at the rate of \$90 per oz. for. Some of our subscribers may want them. But \$2000) for a tomato is away, away beyond our ideas.

and now has a tomato that appears des- sist of farmers, and that members of Partined to surpars all other varieties. He liament should not be on the Board. We claims that the fruit will ripen from eight have no personal feeling against any Member of Parliament that sits at the Board. We know they are very useful members, and are most active and influential at the meetings, but step outside into the field, the barn or stock yards, and perhaps some of the farmers might have a little more knowledge of the affairs. Next year there may be another patch to the new Bill.

Since writing the foregoing, and just as the paper is going to press, we hear that the Mimico Farm is likely to be abandoned. An investigation having been ordered by the Commissioner, the patching has only commenced.

Ayrshires.

We have had far more enquiries for this milking class of animals during the past few months than we have had for years before. Many of the dairymen are en-quiring for bulls of this class, as they care more for the milk than for the beef, and we have no doubt that the dairymen of

n Drill. y Tedder.

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A, ONTARIO.

Horses Putting Out Their Tongues	•••	39	(
Seeds, Trees and Plants		39	(
Crown Peas		39]
Metarling Wheat		39	1
The Poteto		39	1
Horticul ure, The Orchard		39	
THE FIELD.]
Forest and Agriculture		42	1
Timely Topics		42	1
STOCK.			1
		4.	
Treatment of Breeding Sows	• • •	42	
Sulphur for Animals.		4 2	
THE APLARY.			
Weight of Bees		42	
THE URCHARD.			
Thinning of Fruit		42	
THE HOUSEHOLD.			
Poor Potatoes Made Palitable		43	
A French Broil		43	
Wash for Roofs and Buildings		43	
Pumpking for Ioflam'tory Rheumat	ism		١.
Cu e for Small Pox		43	1
			l
VETERINARY.		43	i.
Shoeing Horses Galled Shoulders on Horses	•••	43	
Galled Shoulders on Horses		4.2	
To Train a Horse to Stand	• • •	10	1
DAIRY DEPARTMENT.		10	
A Convenient Milk Rack	• • •	43	1
Milking in Silence	• • •	43	i
MISCELLANEOUS.			ł
Lady Farmers		43	
Farming Well		43	
To Train a Fuschia		43	1
Brief		43	
Grasshamers in Maine,		4.5	
A Woman Farmer		43	
Page 44, 45–46, 47, 48, advertisements.			1
YOUTHS' DEPARTMENT.			1
Auswers to La t Month's Dept		40	-
Riddles, Puzzles, Enizmas. &c		49	5
Around the Hearthstone		41	
Beet Sugar.		41	
To the Laides (illustrated)		-1	
Volue of Asher		. 41	
New Council of Agriculture and Ar	W	. 41	
" Bron Contios, of and recorded and and	105		

-+++ The \$2000 Tomato.

The Coming Tomato; the Canadian Victor.

Patching.

The New Agricultural Bill has already been patched, and we think it will require Agriculture and Arts elective every year. can it be made worth its cost, or would it

be better to put a black patch over it. If it is to exist, should members of Parliation in our mind whether members of seats at the Board of Agriculture. Should would it not be apt to give a party political sway ! Should it be conducted di-

rectly by members of Parliament or by the Board of Agriculture ? Our opinion is that if this establishment is to be car-

Canada understand their business as well It is with pleasure we notice that Mr. Guy, of Oshawa, has come to our relief by inserting the bulls he has for sale, as we hardly knew to what breeder to send ap-plications. Mr. Guy exhibited some very fine cows at the recent Exhibition, and his bull "Leon," which appeared in the columns of this paper, was a very fine animal, we think the best owned in On-tario at that time. The representation of the bull can now be seen by turning to page 24 of the 6th volume of this journal. It is of great advantage to purchasers and breeders to be able to turn to represeninserting the bulls he has for sale, as we breeders to be able to turn to represen-tations of the sires or dams of animals, and we believe that our king of breeders, F. W. Stone, has lost \$20,000 by neglect-ing it. Mr. Cochrane has made twice that sum by having good engravings, although a great error in engravings is now being made by Durham breeders. A truthful representation is not good enough for the majority of them, judging from the cuts in Herd Books.

Monarch Cucumber.

This cucumber is of a large size and long; bright green; very even in size from end to end, without any tendency to grow pot-bellied. Very early and very productive, yielding nearly double the crop of other long varieties. Of excellent A gentleman in Canada has for many ried on, the Board of Agriculture should quality both for the table and for pick-years devoted his time to the propagation have the control over it. We also believe lieg. This is the first year of the dis-of this plant. He has tried every kind, that the Board of Agriculture should conquality both for the table and for pick-

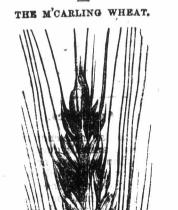
Cheap Money.

The following is an advertisement ex-tracted from an English paper :---

34

There are millions of money loaned at There are millions of money loaned at such rates. Then we believe, if proper means were adopted, that farmers could have the command of money to conduct their business at half the rate they now have to pay. The banks are in no way calculated for the farmers; they are for merchants and speculators. The Building and Loan Societies are a lot of shaving shors and the minor shaving shore may shops, and the minor shaving shops may well be termed robbing dens; we speak from close observation of them in this city. A farmer who has an unencumbered farm should not be compelled to pay 10, 15, 20, 25 or 40 percent. If our Legis-lators would look to the interest of the agriculturist we might have the use of money for 2, 3, 5 or 10 years at a moderate rate of interest. A three-months' note is of no use to a farmer ; in fact, it is far worse than nothing. A farmer wants to add to his land, drain it, erect buildings, plant trees or use the money in many other plant trees or use the money in many other useful ways. There is no accommodation for this class of the community. We hope and believe the interests of the farmers will be better represented than they have been.

Seeds. The Canadian Agricultural Emporium Seed Report for March, 1872 :--



gian Bay. Its properties were heard of, the stock purchased and brought to this county. It has invariably succeeded best when sown early. We sent out many small lots to various parts of the country last year, and all we have heard from who sowed carly give very favorable reports. The reports from those who sowed late have not been so good. The great improvement it has made convinces us that it is the wheat to sow, the quality being excellent, the grain large, and the straw standing well. It is a bearded variety, long in the head and the grains are wide apart, even wider than in the engraving. There is but very little of it yet in existence. It commanded \$10 per bushel last year, and it will be many years before enough of it can be procured to supply the demand. We have no doubt but that those who procure it will not only have a large yield, but we believe the prices will be high for seed for a long time. It gained the 1st and 2nd prizes for the best spring wheat this year at the exhibitions. We shall send out no other variety, as we consider this the best and have confidence in recommending it. We have but a small quantity, and shall sell it only in small lots to enable our subscribers to procure a little each.

PEAS.

The Crown Peas have given satisfaction to all good farmers who have sowed them in good, rich, clean land, if they have not wanted pea straw. The yield has been satisfactory, far surpassing that of the Golden Vine, Multiplus, or Marrow Fat varieties. They are now pretty generally spread over the country, still they are not easily procured pure and free from bugs.

The Dan. O'Rourkes are now coming inte cultivation. They yield well and ripen from two to three weeks earlier than any other field pea, which is a very important consideration when we wish to clean our land for fall wheat.

The Excelsiors are long in the pod, frequently having ten and eleven peas in a pod. On light, poor or worn soils they will produce a larger crop than any other variety. They do well on any soil and are in demand by parties understanding their nature. They are well liked and de-serve attention. We are compelled to give this pea a name. They were raised from a selection taken from other peas when growing and have been propagated for some time, but no one has yet been able to give us a name. We give this

this wheat it appears to have been a fall wheat sent from the States and turned to a spring wheat, a handful being taken as the parent stock and sown near the Geor-gian Bay. Its prosting was been a fall that account. The frost sometimes cuts them in the fall. They are a jet black oat, but are apt to hull if allowed to ripen well.

The Surprise oats shell more easily than the Emporiums. Many like them, still we prefer the Emporiums, which, we believe, are White Polands improved. For a white heavy oat they are equal to any; the straw stands well and they do not shell like the Angus, Scott or Potato oats (all the same variety, only known by different names in different places.) For a black oat it is our impression that the New Brunswick oats will take the lead. This variety stands well, yields largely, and has a thin hull; it grows in a branching manner, similar to the following illus tration:



To the Hon. Archibald McKellar, Minister of Agriculture :-

We would respectfully remind you that the Mimico Agricultural Farm was established for the purpose of trampling out private enterprise ; to enchain and enslave the farmers rather than to elevate their position. The plans have been dishonorably taken from an individual who has labored for years to bring them before the public, and which plans have been again and again recommended to the consideraion of the Logislature. No remuneration has in any way been given, although aid was promised by the late Minister of Agriculture to the originator of those plans. It was withheld because the individual would not support measures that he deemed injurious to the agricultural interests of the Dominion. We would also call your attention to the immense number emigrating from our country, some of which has been caused by improper treatment of immigrants that have arrived. One dissatisfied person causes more. are aware that both timber and land have been taken from some individuals by the acts of the Government after the emigrants had paid their cash for the land and the timber on it. As there appears to be no scarcity of money in the public exchequer and plenty of land yet unnoccupied, would it not be well to settle any really just claims the Government might have against them. Yours respectfully, FARMERS' ADVOCATE.

gultural and Arts Association on the 7th December last, viz. :-Moved by Mr. Shipley, seconded by

Mr. White,-"That this Council considers that the

Agricultural Emporium of Mr. William Weld, of London, for the sale of stock, the testing and sale of implements, seeds, &c , has been of much service to the agricultural interests of the Province, and the Secretary is requested to send Mr. Weld a copy of this Resolution." -Carried.

I have the honor to be, dear sir, your obedient servant, HUGH C. THOMSON, See'y.

Wm. Weld, Esq., London.

SEAL, Agricultural & Arts Association.

In Open Council, 26th January. 1872.

Moved by A. Seabrooke, seconded by R. Brown, that,-

"Whereas W. Weld, Editor of the FAR-'MERS' ADVOCATE, has for a series of years devoted his time and means to the 'interests of the agriculturists of Canada. and that much good has been done by the same, therefore this Council recom mends him to the favorable consideration of the Legislative Assembly and

"the Government of Ontario, trusting "some substantial recognition of his services will be made."-Carried.

I hereby certify that the above is a true opy. JAS. KEEFER, County Clerk. copy.

SEAL, County of Middlesex.

The Mimico Farm.

We hope the Government will not attempt to eat stolen bread by accepting the Mimico Opposition to private enterprise without enquiring into the title of the plans. It is said that stolen bread is sweet, but we do not think this Mimico Farm is very sweet to them. They know they have a kind of an elephant on their hands. There is a saying, and we believe it is often quoted by lawyers, that "a receiver is worse than a thief." Still there is another saying that "honesty is the best policy," and we believe it is, but we know it is too seldom practised.

Farmers' Interests.

Sir Stafford Northcote is reported to have said very recently in England :--"It was perfectly true that members of Parliament were a grea up when they had very little that they knew to say, and it was therefore extremely important that they should be influenced and guided by those who were able to inform them upon matters which really affected the welfare of the country, as to what it was they ought to say. Now there could be no doubt that the agricultural interest was one of the most important interest; of the country, and one which was affected by almost every question that affected every other portion of the community, so that they could not raise the question of police, political economy, or the sani-tary measure, which did not more or less-and generally more so-affect the agricultural interest. Members of Parliament who were connected with the agricultural interests of the country, were conscious when questions came upon them suddenly that there must be an agricultural side to the question and that they ought to give every consideration to it if they only knew what it was ; they had learnt what they knew from some casual acquaintwhat they knew from some castal acquame ance and they took a one-sided view of a question which had a great many sides. What they required was that they should be instructed by those who were interested in it as structed by those who were interested in 10 as to what their deliberate opinion upon them was, when all points had been fairly considered and discussed. They did not want these questions to be rudely thrown down in the House of Commons, but to be discussed out of doors. * * * There was at one time a great prejudice raised against the agricultural interest in Parliament because it was supposed that they took a class view and

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This once on its last l which can The voices now beginn of the inde are now beg different to are beginni now they lo and disgust so long sup them. Th them. of the inte to monopo private pur been sold n the county most auda downright think many brought to in the histe

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A good Spring Wheat is what the country needs as much as anything. The Meall the old varieties. From accounts of and that will sell them, but they will not at a meeting of the Council of the Agri- lish paper.



illustration which we have had made from descriptions, as we had not a pod at hand. No pea that has yet come under our observation has such a long turn at the end of the pod as this variety. Perhaps some may aid us in discovering the right name. The above illustration will answer, al-though it is rather thick at the turn.

THE CHEVALIER BARLEY.

This barley has not given very general satisfaction. Some like it very well, but, on the whole, we do not think it will come into repute, therefore we shall not commend it as we fear it will injure the price of our common barley. It is well known te us that some purchasers mix it and send it to the States, but if it is much practised it will give eur barley a bad name, as they will not malt together.

OATS.

The various new kinds of oats have Carling wheat approves destined to fill the given general satisfaction. The Westrequirement. It has now been cultivated well and Black Poland varieties are about two years in this section of the country the best black oats, as far as appearance and has improved each year, surpassing goes; they will take prizes at exhibitions the subjoined copy of a Resolution passed

N. B.-We submit to you the following commendations recently received, also trusting that the former recommendations have fallen under your notice. The orig-inals are now in the office of the Hon. E. Blake, President of the Council.-F. A.

Office of the Agricultural & Arts Association of Ontario.

Toronto, Feb. 3rd, 1872.

DEAR SIR,-I beg leave to forward you

were looking to some selfish object of their own. He hoped that time was passed." The above is an extract from an Engstated, w mer's inte to destro Johnson have cont Provincia establishe have bee Mimico ; have bee to have a from the way the the laws keep do quelch a to be cha has ev of the crushed to have l blackest to enforce all. Th be used autocrat We da in this c this Do name ai he treat suppose tugal in consulte

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January,

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is reported to ngland :-at members of that they knew tremely impornced and guided orm them upon the welfare of s they ought to e doubt that the of the most imountry, and one every question ion of the comt raise the quesmy, or the sanimore or lesst the agricultural ament who were ural interests of when questions at there must be nestion and that sideration to it if they had learnt casual acquaintsided view of a nany sides. What ey should be ininterested in it as inion upon them n fairly considered not want these wn down in the be discussed out There was at raised against the liament because it k a class view and sh object of their was passed." t from an Eng-

and grasp at it for the support of these on its last legs and scarcely has anything institutions, that have done more injury already to the country than a hundred easily are we poor farmers caught by a different tone than previously; the scales bait of a drivelling prize. The foundation are beginning to fall from their eyes and of the Provincial Board was sound; it now they look with wonder, astonishment was really intended for the good of farmers ; it has proved itself such despite a so long supported and allowed to rule over little mismanagement. We held up both nations. hands for its support although we exposed its mismanagement when it was deserved and will do so again if we deem it necessary. This Western Fair must fall from been sold much against the interests of its past position ; they will not have such the county by their power. But for the a bloated sum to talk of next year. If they had acted honorably and had given farmers fair play and their just dues, they might have had a better chance of success, yes, might have been an honor to our Dov minion, but now the country generally

look on it in its true light and will be apt to despise rather than respect us. We hope the East Middlesex farmers

will not consent to the sale of their pro perty, nor allow it to be frittered away in a silly manner by supporting an institution that is opposed to the Provincial Association. Is our land to be sold against our wishes, and the money expended against our interests? This is for the farmers of East Middlesex to answer. Despite this act of selling the agricultural ground against the wishes of the members, they will still try and get some of their party in Parliament to represent the farmers. Farmers, awake, awake !

Notes on English Customs. BY JAMES VICK.

WE extract the following from part of a series of letters that are being published in The American Rural Home, an excellent agricultural paper published in Rochester :

The social distinctions of England are more rigid and unreas nable, it appeared to me, than in any other country of Europe. There are the poor, middle, professional and aristocratic classes, and each of these subdivided into three or more sections, or substratums. Com-mencing at the bettom, the *poor class* is composed of beggars, paupers, laborers, and the lower or less skillful mechanics, and, per-haps, the smaller shopkeepers, hucksters, &c. The middle classes embrace the better class of mechanics, merchants and manufacturers ; and this class seemed to be more subdivided, by reason of wealth. intelligence, &c., than any other. The professional class counts the doctors, lawyers, ministers, gentlemen of means and leisure, officers of the army and navy. &c. The aristocracy forms the top of the social pyramid, embracing all with rank and title, high up and above all, alone, stands the Queen of the British Empire. These different classes and divisions of classes do not ming'e socially, and the effect is in some respects, I think, injurious to all. On my first visit to London, I observed a sign on one of the churc'es-"Day schools for the middle classes." This, I suppose, might be called a classed if not a I suppose, might be called a transit in hot classical school. I cannot but think this system works bally in the schools, generally, but I observed its effects particularly in the Sabbath Schools. There may be pleasant Sabbath Schools in England, but I did not Find them, though I took some pains to do so. Even in the most successful churches, such as Spurgeon's, they are but gloomy dens, without convenience or comfort. In nearly all che schools, the seats provided are long, narrow benches, without a particle of paint, such as were common in country school-houses half a century ago. When the children rise to sing, from one to half a dozen of these benches are to enforce the iron rule of subservience on all. The farmers of the country were to be used as mere vassals and serfs to this successful over. I visited the largest school several days with me in Rochester. I found autocratic power. We dare any one to confute these facts in this or any other agricultural journal of the proposed to leave : it

tern Fair or Mimico Farm were ever in-tended for the benefit of farmers. Now the very parties sell our agricultural land and grasp at it for the support of these be to drag down the high instead of elevating the low, but I think not. I am happy that which can be called a leg to stand on. already to the country than a data we have few who think themselves they we have few who think themselves they independent farmers of the country by offering \$10,000 in prizes. O! how worth all it cost. It is founded on the intelli-tion of the independent farmers of the country by offering \$10,000 in prizes. gence and virtue of its citiz ns. Its destiny is in the hands of the people, and it is for them to say whether in the future we have a splendid country, the admiration of the civi-lized world, or a splendid ruin, the scorn of the

I spoke of Spurgeon. I heard this cele brated preacher, in some r spects under favor able circumstances for I became acquainted with a leading member of the church, and secured good seats. When the preacher made his anpearance, and commenced at once to read the hymn, I was disappointed. He did There was a large frame, but little fle-h; a limp in the walk and a feebleness of voice that betokened a worn out man. The sermon was plain, fresh, forcible ; but had I heard the same in any country church in America I would not have been astonished, or thought the preacher unusually brill ant. A long time since Mr. Spurgeon commenced publishing his morning sermon in tract form, and this he said was the one-thousandth sermon since the commencement of their publication. I had heard much said of the congregational sin ring at this church, but it was ridiculously poor-a mere hum. The large congregation of about five thousand should have made the Tabernacle ring; but there was no organ or other instrument to lead the people, and the chorister had but a weak voice, so that he could not lead or control the audience, and there were all kinds of time and humming noises, and nothing like good, hearty congregational singing. I learned that Mr. Spurgeon had preached only once before for three months, having been laid up with the gout. I remembered then some very silly remarks he had made on the temperance question, and which are no doubt familiar to many. So much did I see of the evils of intemperance in England, that I have no doubt in my own mind that if the Rev. Mr. Spurgeon, and every minister in England, some fine day, should be banished from the country, and the liquor and beer with them, never to return, it would be a blessed day for old England. I fear intemperance is doing more mischief than these ministers are doing good, and yet very few seem to know or care anything about the matter. Indeed, it is very strange what notions good and otherwise rea-sonable people seem to have about drink. They think stout or ale as necessary to health-ful existence as food. After all, with the custom of drinking so general as it is, there is not as much intemperance apparant as one would anticipate. I do not believe there is a

35

The next day I had determined to take a trip into the county of Essex. This is the greatest seed-growing county in Eagland .---England was always supposed to be a great fruit country, but fruit is not esten there as freely as with us. Indeed I did not see any fruit at all remarkable except gooseberries, and they were splendid. You do not see any large dishes of strawberries served as with us, and covered with cream. Half-a-dozen, if not very large, will be put on a plate, each one having its stem attached, and you can take up the berry by the stem and eat it gradually. This is a great aggravation to any one fond of strawberries. This is not from any stinginess or disregard to your wishes or wants, but there seems to be the general idea that fruit is unhealthy, and the people have visions of cholera constantly before them. On inquiry of a friend who had visited America and had seen us eat strawberries in Rochester, why they did not use more fruit, especially strawberries, he dc-clared they would all die if they consumed fruit as Americans do; that it was necessary for them to be very careful or they would be "upset." "Now," said he, "in England, if a child wants strawberries, the mother will give it one, but before it can have two there must be a grave consultation between father and mother as to its safety ; but no prudent parent will allow a child to eat *three* without medical advice." This may be slightly exaggerated, but there is a real dread of the results of a free use of fruit. Whether the climate is at fault or the habits of the people, I do not know.

WE NOTICE that the inhabitants of Morrisburgh, Dundas Co. are about to petition the Legislature for an alteration in the Drainage Act.

Monthly Cattle Fairs.

Guelph-First, Wednesday in each month. Harriston – Friday before Guelph Fair. Bosworth – Saturday before Guelph Fair. Elora -- The day before Guelph Fair. Drayton- The day before Elora Fair. Clifford - Thursday before Guelph Fair Teviotdale-Friday before Guelph Fair. New Hamburg - First Tuesday in each ionth.

Berlin—First Thursday in each month. Elmira—Second Monday in each month. Waterloo—Second Tuesday in each month. Mount Forest—Third Wednesday in each aonth

Month. Durham—Tuesday preceding the above. Fergus—Thursday following Mt. Forest. Orangeville—Second Thursday in January, March. May. July, Sept. and Nov. Mono Mills—Third Wednesday in Jan.,

April, July and October.

Erin-First Monday in Jan., April, July

ing the real interests of the farmers. The Western Fair, as we have previously stated, was never originated for the farmer's interest. The object of it has been to destroy the Provincial Board because Johnson was rejected from it ; he was to have control of this human elephant; the Provincial Exhibition was to have been established; the local exhibitions were to have been subservient to the Provincial at Mimico ; all friends to the clique were to have been favored, and any one who dared to have an opinion of his own differing from them was to be persecuted in every way the law could be brought to bear. If the laws were not of sufficient power to keep down an independent spirit or to quelch any private enterprise, they were to be changed in order to effect it. This has even been done. The press has even been done. The press of the country was to have been crushed to subserviency to this clique or to have been annihilated. The darkest, blackest deeds were to have been enacted all. The farmers of the country were to

The Last Kick of the Johnson Compact.

This once powerful organization is now

which can be called a leg to stand on.

are now beginning to be heard in a totally

and disgust on the very party they have

of the interests of the farmers, attempted

to monopolize the railway interest for

private purposes, and county property has

most audacious and barefaced pieces of

downright deception and rascality we

think many of their acts when properly

brought to light will be found unsurpassed

The County Agricultural Society pur-

chased 10 acres of excellent land in this

city many years ago, and they have held

their exhibitions for years past, partly under favor, on other lands, because the Provincial Exhibition buildings have been

erected there. There have been attempts

made, too, for some time past, to get this

land out of the hands of the Society at a

very low rate. At the last annual meet-

ing the subject was discussed, and the

voice of the meeting was taken on it,

when it was decided that the land was

the utter astonishment of all but the Com-

pact the announcement is made that the

land is sold for a paltry sum of between

\$3000 and \$4000, and attempts are being

made by the said Compact to take this

money and devote it to the Western Fair

humbug! We are not sure that this can be claimed as a legal sale after the de-

cision of the last meeting, which was decidedly opposed to it. At any rate we

shall enter our protest against the sale of the land. It was no expense to the So-

ciety, they had no taxes to pay and a rent was obtained for it. It would have made

a beautiful spot for experimenting and testing seeds if it had been properly leased

to some one for such a purpose. The annual value of it might have become far

more than the whole money obtained for it. As for the proposition to expend this money to aid the Western Fair, it would

be using it for the very purpose of destroy-

To

not to be sold, but was to be leased.

in the history of the country.

them.

This very party has, disregardless

this Dominion; we only ask to give the the submitted of the solution of the so this Dominion ; we only ask to give the consulted and our requirements made known if our money is to be expended for our good. We should know if the Wes-

a the world where people mak fools of themselves by intoxicating liquors as in America; and that is one reason, I suppose, why decent people have become dis-gusted with the practice, and discard it altogether, as vulgar and wicked. The step between slight tippling and habitual drun-kenness is shorter in America than in any country in Europe, I veri'y believe.

I was quite shocked at the remarks occasionally made respecting the Qucen. I have never heard England's Qucen mentioned in America but in terms of the highest respect. In England she is often represented as avari-cious and miserly, caring far nothing but to secure money from the people for herself and family. Perhaps party spirit has something to do with this ; then I suppose they think they have a right to speak as they please of their own, but would not like a foreigner to use the same terms--on the same principle, I suppose, that it is said a man will speak ill of his wife and children, but will not allow any one else to do so without fiercely resenting the insult.

I had some friends connected with the large neat at d conveniently arranged. After spend-ing an hour or more, I proposed to leave; it was afternoon, and I began to feel the need of luncheon, and quite plainly expressed my feelings on the subject. We were press d to

Masonville-First Tuesday in Feb., May, August and November.

Listowel-First Friday after Guelph Fair.

STRATFORD. --- Monthly Fairs are to be estab-lished in this town, and will be held on the 1st Thursday in each month.

Editorial Table.

The Transactions of the New York State Agricultural Society, a large volume containing 784 pages illustrated with bandsome cuts of (New Haarlem, Holland, — Bulbs; Sut-ton & Sons, London, G. B.; R. H. Allen & Co., 189 Wall St., N. Y.; J. A. Bruce & Co., Hamilton, Sharp & Co., Guelph; C. Daw-barn, Toronto. Report of Dairymens' Con-vention, Ingersoll, 1871. Griffin's Seed Cata-ton & Longer, Longer, 1971. grasses, the best set of illustrations of the kind

Simpson's Cattle Spice.

We have sent out several lots of this Spice and it is well liked. Those who have procured it once come for more. Its beneficial results astonish many that have tried it, and the re-

Notice.

36

Having so much to attend to, we have placed our List of Lands in the hands of Mr. J. Nattrass, a gentleman who we have not the least doubt will give each of our patrons greator satisfaction, as he has good business qualities, has a good connection, and will be able to devote more time to it than we can spare at present. We feel confident that you will approve of this step and that your business will be better attended to. This is a good way for farmers and others to dispose of their lands, if they have any to dispose of, as it will cost them nothing unless sales are actually effected. If you have any land to dispose of, send us the particulars. There are some who will apply for lands in particular localities. Send in particulars.

"Farmers' Politics."

SIR,-It is undoubtedly more congenial to the mind of an editor to have complimentary testimonials in his favour rather than severe criticism or denunciation in regard to the advocacy of particular measures or principles : were it otherwise, he would be scarcely human. At the same time, a publisher who wishes to support himself by the issue of a journal will from prudential motives, endeavor to ad vocate the interests of his patrons, and point out means and measures which, if carried out, will result in their mutual prosperity. Permit me to say that in my opinion there is more good, substantial common sense in the article in your Feb-ruary number on "Farmers' Politics" than I have seen in any publication in the interest of the farmers of Canada. It has the right ring, and in the main is true, and I heartily rejoice that there is one advocate of the farming class who can speak freely of the disadvantages of our position without the fear of King Street before his eyes.

It has been stated, and with a show of reason, that Canadian farmers were indifferent and tardy in their support of an ag ricultural paper. The cause of this indifference has arisen in a great measure from the fact that our "Canadas" and "On-tarios" were facetiously endeavoring to impress upon our minds the fact that we were designed for hewers of wood and drawers of water for the few professionals of our Province, that we had no rights which our masters were bound to respect ; in the we were not represented press or the legislative halls, -- and when every other interest was attended to, and nothing else turning up, there might be a possibility of an "opening up" of our cause in the mist and fog of an indefinite future. The farmers have made Canadian interests by their muscle, energy and perseverance; they have taken the tree from the stump and made the land to bring forth; have contributed more than any other class, or all of them put together, to make the country prosperos, and what we want is fair play, equal rights, and we shall be satisfied with nothing less. We want a paper to support our interests boldly, fearlessly, with Canadian prosperity and progress as the basis, centre and circumference. Do not be afraid of that puerile and hackneyed cry of "disloyalty," but stand square up for the Canadian far-mers' welfare, and I predict for you a warm and generous support. It is said of a certain man who would not provide for his own household, that he had denied the faith and was worse than an infidel. Is it surprising that with no press, no representation, with studied and persistent deception and missrepresentation of our position, that we, as a class, are not "posted" and indifferent. We have the power ; let us wield it ! M. W. Brown. Paris, Feb. 22, 187?.

Breeders' Column.

WE ARE pleased to notice that Col. Taylor, of this city has purchased from Wallcott & Campbell, of New York Mills, for the sum of \$2000, "Earl of Oxford," 9985, got by "Duke of Geneva;" dam, "10th Lady of Oxford," by "10th Duke of Thorndale." Some of this stock has been in such demand that they have been taken from the States to Europe. The Col. is laying the foundation of a fine herd.

WE HEAR that Mr. Carr, of Stackhouse, England, a celebrated breeder of Short Horns, is now staying with Hon. David Christic on a visit to observe the agricultural interests of Canada.

MESSINS. Birrell & Johnston, Pickering, have sold their 1st prize bull calf "Bell Duke 2nd" (got by "Bell, Duke of Oxford," out of "Mara," by "the Priest,") to Mr. Jeffrey, of Whitby, for \$245.

MANY breeders are much troubled at this season of the year with lice on their cattle. As a remedy, dust them all over with wood-ashes, and then note that this information is worth to you far more than your yearly subscription to our paper.

AT THE sale last year of part of the herd of Mr. McIntosh, Havering Park, England, he mentioned that he had that day been offered 2000 guineas for the American bull "3rd Duke of Geneva," bred by Mr. Sheldon, of Geneva, N.Y. Mr. McIntosh refused the tempting offer ! and as this is the highest price ever offered for a bull, we place it on record as an encouragement to Canadian breeders to persevere. There is no reason why our breeders should not raise very valuable tribes of Short Horns, but to do this they must use bulls of fashionable pedigrees as well as animals that please the eye.

BIG HEIFER.

Mr. Wm. Humphries of the township of Percy has a Durham heifer that weighed 999 pounds when 13 months and 2 days old. Who can beat that? LIVE STOCK.—Messrs. McKenzie & Fisher, Hyde Park, London, bought last week from

LIVE STOCK.—Messrs. MCKEnzie & Fisher, Hyde Park, London, bought last week from Mr. T. Baxter, Hamilton, a short-horn Durham bull, eighteen months old, and weighing nearly 1600 pounds.

A reprint of the Sale Catalogue of Mr Charles Colling's Shorthorns, which took place at Ketton, Co. of Durham, England, in the year 1810, appeared some time ago. The "rise and progress" of the breed may be said to date from this event ; it was the first sale of any Shorthorn or Teeswater stock that realized prices considerably be-

youd the ordinary market value, which at that time was about $\pounds 20$ for a good common or dairy cow, while beef was quoted at Smithfield market the datafter the sale at from five to six shillings per stones of 8 lbs., exclusive of offal.

ANCIENT SHORTHORNS.

The lapse of time tells strongly against very accurate description being given of the stock; as few persons then present are now living, recourse must be had to written accounts, which will be submitted to eye-witnesses of the sale, and added to or corrected before publication. Much of the information given is entirely new to the public, and every endeavor has been made to render it trustworthy. A few observations concerning the cattle of the north previous to the present century, may not be uninteresting. One of the earliest works published on live stock is called Leonard Mascal's Government of Cat tle," printed in black letters, 1633. It was the text book of several subsequent was the text book of several subsequent works, and many of its precepts and prac-tices still hold good. The author, after mentioning that there are many diversi-ties of eattle, "both white and red, mighty of body, and of great courage," gives, a-the best description the best descriptions, quotations from Mago of Carthage, Columella, and Stephanus, all of whom wrote most minute particulars of cattle, prior to the Christian era. Mago says, " Bulls ought to be gentle, and of a meane age, with a quick looke; his horns to be more shorte, like wise his neck more fleshie than an ox " his forehead velvet, eyes great and large mouzell blacke, nostrils open and wide dewlappe great in hanging almost down to his knees, his breast round and Lig. shoulders large and deep, belly big, rib: wide and open, reins large, back straight and flat, with a little Lending towards the rumpe, thighes round, legs straight and well trust, rather somewhat short than long, his tail long and well haired and to be briefe, his body to be thicke and short. Columella saith, 'a cow of estimation ought to be large and long bodied, gentle, having a large and deep belly, broad forehead and black oper

the author of the Herd Book, says, that his earliest recollections of Shorthorns were large, massive, expansive cows, with great width and substance, hardy constitutions, mostly red and white spotted, white bodies, necks spotted with red or roan, ears red and head white, frequently black noses and rather long, waxy horns.

Nature when left alone generally reproduces herself. There is now in existence a herd of pedigree Shorthorns at Walton Hall, Staffordshire, which were originally obtained from Mr. Geo. Cowling of Ricknall Grange, Darlington, who bred from leeswater cattle far back into the last century, and used in later years bulls of the Colling's, Charge's, and, lastly, of the 'Princess" stock. His herd was sold in 1842, and some of the stock eventually found its way to Walton Hall, where it has been bred in and in for the last twenty years. The owner of the herd writes, "Farmers about here think white cows have delicate constitutions, but I am also convinced that they are nearly always good breeders and good milkers. The bulls that I have used have nearly all been white ; my cattle are now mostly white, and so much alike, that it is difficult to tell one from another. have a few with light roan and dark roan necks, and a few white with red spots.

Some of the Tesswater cattle were crossed with a bull that came out of Holland. Cully, in 1785, remarks, "I remem-" ber Mr. Michael Dobison, of the Isle, Sedgefield, who went in the early part of Lis life into Holland, in order to buy bulls. Those he brought over, I have been told, did much service in improving the breed ; and this Mr. Dobison, and his neighbors, even in my day. were not-ed for having the best breeds of shorthorned cattle, and sold their bulls and heifers for great prices." Sir William St. Quintin and Sir James Pennyman had stock with this Dutch blood. Coates, in the fifth volume of the Herd Book, gives the final cross of Bates' Wild Eyes tribe thus:-Descended from Mr. Michael Dobison's stock, which he purchased in Holland above a century ago. Other breeders afterwards imported lyery (bad colored, coarse) fleshed animals, with huge buttocks and kips: these did much harm; and most of the old Teeswater breeders endeavored to avoid this evil.

Culley says in 1803, "The great obstacle

X. A. Delivered at

held We leave tics and othe does not add dress, at the

The Americ a foreign mar immense stoc one, and mus astrous.

Let us reas absurd theori peal only to y solution of the factory system ing it is hoto hard earnings What are the factories nada have no property, and lating stock. The cheese skill and atto

the manipul

mental princ most entirel this contine cheese goes is left to tak and its quite varies preci appioximat tu.e. We c.eere-m.k op uent of that the tro from anothe ous in chara milk a id ci over-mastel which are Th- action gether nari

> of the chee bad or wor Now, that t mperatur cheese may wil, to in office-to s elements o to a me loo jury to the the best f taste, for t certain con matical pr

been a low

moulded genca--how Colling. ar Shorthern

Y m k

FARMER' (LUBS are springing up throughout the northern a second with. Fullexten has taken the lead, and meetings of the Society are regularly hold, and matters in regard to agriculture fully and profitably discussed. In the A conbank settlement of Downie, a club in establishand also one in Hibbert.

Notice.

On Jan'y 24th, we received a letter from Jas. Gardener, with no post office mark inside or out. The writer will please let us know where it came from It is a source of very great loss to us. that postmasters do not stamp letters clearly; semetimes they are not stamped at all. Papers are sent in without notices or even the post mark. We have not as yet been able to move the Postal authorities to act, but still hope to do so. The mere naming of a township is no guide to us, and we particularly request parties to name their post office.

Another envelope came to us on the 1st of February containing \$1 in four quarters—scrip. It had no name or address. The post office stamp seems to be Summerston. We will be obiged if the party will let us know who they are by Postal Card.

SITTING HENS.

By allowing the hens to sit in the nest in which other hens have been in the habit of laying, they will be crowded by hens that resort to the nest for the purpose of depositing the reggs; and in a majority of cases, eggs will be broken and their place supplied by others laid a week or ten days after the hen commenced sitting; so that when the eggs begin to be hatched, there will remain eggs which need several days' more heat; and the result is, a small brood of chickens, and a lot of worthless eggs.

Put the sitting hen into a separate apart- . ment, which may be a separate building, or an old human sitting, or a scall boarded up.

"belly, broad forehead and black open "eyes, legges short and thick, and her "breast deepe;' and Stephanus mentions, "that, 'the browne color mixt with white "spots is good; great cleane horns, hayre "somewhat crumpled, thighes thick and "round, her udderen large and deepe, and her neck long and thick."

It is generally considered that cattle were imported into the North of England by the Danes, prior to the Norman Conquest. Other importations followed, more ecpecially in the Holderness district; and a similarity of character has frequently been observed between the cattle in norththern Europe and in the north of England. So recently as 1838, Mr. Torr, while travelling in Holland, visited Utretch Fair, and saw a large number of animals "fully "resembling ordinary Shorthorns; they "were rare milkers, had tolerable forma-"tion, a good skin, mellow handle, and "nice waxy horns, and with every variety " of color."

The rich grazing land along the valley of the Tees would naturally be the home of good cattle. Mr. Bailey, the Durham historian, says, in 1810, "the cattle both "sides of the Tees have been known by "the appellation of the Teeswater breed. "About 1740, their color was red and "white, and white with a little red about "the neck, or roan. This color being "similar to those of the present improved "broed of Shorthorns, makes it probable "that they are descendents of the same "race." Mr. John Wright, born at Lowfields, near Catterick, in 1784, a well-known judge, and who was originally proposed as

" to improvement was that no bull should "be used to the same stock more than "three years; if kept longer, the breed would be too near akin and produce tender diminutive stock liable to disorders. Blakewell (born 1726, died 1795) was

one of the earliest to upset these notions. For more than twenty years he had no cross, and the best stock was bred from the closest affinities, neither were they less hardy or liable to disorders." Both the brothers Colling bred Leicester Sheep or "Blakewell's improved Dishleys," and in all probability, the success of his principles induced others in the North to try them. Culley goes on to say, " It has been the misfortune of Shorthorn breed-" ers to pursue the largest and biggest-" boned ones for best. Their ideas are now enlarged, and I am glad to see my hopes well founded. In a few years rapid improvement has taken place in the breeding of Shorthorn cattle, and I have reason to think they will surpass " their rivals the Longhorns, which excel ' in hide, hair, and quality of beef, as 'Shorthorns do in quantity of beef.tallow, 'and milk." Mr. Bailey, in his account of the Durham cattle, writes, "The visi-"tants of Blakewell having seen what he " had doue with the Longhorns by selection, and at how much earlier ages they " got fattened, were induced to try what could be done by similar means with the Shorthorns, and several selections were made for the purpose with great success."

(TO BE CONCLUDES IN OUR NEXT.)

the sour a luscious a nature ha how wate the great lightning made to power ov provi ling which the croscopic intelliget cheese v understa wis. Creat

of its bein Now, it and deve words, for uniform excessive tion or cl and so or Cheese orninary upon the ing house of 70° , in flavou The a tion if y

understhave the fat, or a by atter milk pa and men milk ch This is

X. A. Willard's Address

Delivered at the Dairymens' Convention, held at Ingersoll, 1872.

We leave out a large portion of statistics and other useful matter, as our space does not admit of the whole of the address, at the present, at least.

The American system of dependence upon a foreign market, and the forcing forward of immense stocks in hat weather, is a vicious one, and must always prove more or less disastrous. Let us reason upon this matter without any

absurd theories or speculations. I shall appeal only to your common sense for a practical solution of the question. I affirm that the factory system of curing cheese and marketing it in hot weather is a shameful waste of the

hard earnings of dairymen. What are the facts ? The greater bulk of the factories in the United States and in Canada have no conveniences for curing cheese property, and have no provision for accumulating stock.

The cheese curing process is one requiring skill and attention to details, second only to the manipulation of the mick. The fundamental principies in this department are almost entirely ignored by the caeese-makers on this continent. From the time that the cheese goes from the press to the market, it is left to take its chances with the w ather, and its quality when produced from good milk varies precisely as the weather happens to app:oxidiate to a certain uniform temperatu.e. We now know that the whole art of cheese-making consists in the proper deve-op uent of a peculiar species of fungi, and that the trouble in cheese making also arises from another class of fungi more or less vicous in character, which gets possession of the milk a id curds, or the cheese up in the s'ielt over-mastering the first named organisms. which are the cheese maker's real friend. The action of the one class of fungi is altogether narmful, and according as they have been a lowed to develop an i take possession

of the cheese, so is the product inferior, poor, bad or wort des. Now, the useful class of funzi must have a

t mperature fav rable to their growth. The cheese maker's art is to men'd them to hi wil, to induce them to perform a specific office-to attack the caseine or nitrogenous elements of the cheese, and to break i down to a me low, plastic state, without doing injury to the fl.vour - in fine, to prepare it in the best form, both as to healthfulness and taste, for the human stomach. This, under certain conditions, it will perform with mathematical prec sion and with certainty. Y in know how plants and animals are

mould d to do the bidding of human intelligenca-how B keweh produced his sheep-how Colling, and Bates, and Booth, have made their w the pomologist has change shorth rns the sour and bitter crab into the large and lusci us app.e-you see how even inanimate nature has been made to do our biddinghow water in the steam engine has become the great projelling power of the world-how lightning chained to the telegraph has been made to taik. God has given us unbounded power over animate and inanimate nature. providing we employ the immutable laws by which they are governed. So this minute mi croscopic fungus, under the hands of human intelligence, will perform our bidding in the cheese vat and upon the shelves, if we but understand and apply the law which the alwis. Creater has laid down for the government of its being. Now, to obtain the best results, the growth and development of these fungi (or, in other words, fermentation of the cheese), must be uniform and continuous. You cannot induce excessive activity one day, followed by a cessation or checking of the process the next day, and so on, and obtain a high standard product. Cheese made from good milk, and with only orninary skill in manufacture, when placed upon the shelf in a well ventilated cheese-curing house, and kept in a uniform temperature of 70 °, will a most invariably cure down fine in flavour and in quality. The action of these fungi (call it fermentation if you choose) is peculiar, and is not fully understood. Certain it is, however, that they have the power of converting the caseine into fat, or a substance similar to fat, and hence, by attention in curing, a cheese made from milk partially skimmed may have as mellow and meaty an appearance and taste as whole milk cheese cured in variable temperatures. This is a fact abundantly proved by science,

and it has been fully demonstrated by the analysis of Voelcker. This peculiarity in the manufacture and curing of cheese was brought before my notice in 1866 during my examination of English dairies. Mr Harding. the distinguished exponent of Caeddar cheese-making in Engand, always insisted that the goodness and delicate flavor of the cheese depended more upon the temperature and manner of curing than upon any extra manipulation in making. He affirmed that by keeping the temperature

of his curing room at 70° , without variation, he could remove a considerable portion of cream from the milk, and yet could be able to make a cheese that would sell in the London market for the highest price. It was his usual custom to take the cream from the night's milk, and I have never seen nor tasted cheese more perfect in flavor, or with more of the characteristics of what we term "fine heese" than that which 1 ate at his table. His curing room is surrounded with a nest of ron pipes, which are supplied with hot water from the boiler below whenever the temperature of the room falls below 70° . In the low, even temperature of England, his curing room, built in with heavy walls of hollow brick, and with ample provision for ventilation, seldom varied in temperature from 70 ° I have experimented sufficiently in my own lairy to know that with good milk, and with good curing room kept at 70° , there is no accessity for l ad flavor, and that cheese can be kept from one year's end to the other, and yet retain that mild, iich, nutty taste which the English so justly characterize as the best

manufacture. I feel earnest about this matter of curing theese. for I am convinced that its neglect is the great fault of American factories. The omplaint is quite common that American theese will not keep. The secret of long keeping cheese is not so much in its manufac-ture as in the milk from which it is made and us caring.

Our dairymen complain that prices are low, and are seeking a remedy. The remedy lies n better milk and in larger and better curing

In New York there is not a single factory ver in hot weather and retain its flavor. Even under our system of weekly sales, im-mense quantities of July and August cheeses are over-heated and tainted in flavor when they leave the factory. In New York there is not one factory in a hundred that can hold before the factory in a hundred that can hold more than six or eight weeks' make of cheese You hear of immense shipments of cheese in hot weather, and at low prices. Well the factories are forced to sell. They say: "We dare not keep it. for it is beginning to turn in flaver; | e ides, our rooms are full, and it must be sold."

Now, is it any wonder that dealers buy low and that dai ymen are placed at disadvantage? Why, my friends, you and I. and every one else, will buy as cheaply as we can. Has it not become a proverb that you cannot realizfull value upon forced sales?" This is the condition of the American cheese market doring a large portion of the year, and England knows it. But the dealers after purchasing are anxious to get rid of the goods, especially in hot weather. They have an a ticle upor their hands which they know is constantly depreciating, and is liable to be lost altogether, and so they shift the responsibility as soon as may be, making what margin they can. It is just so in England. It is known that much of our cheese will not keep and the shippers are on nettles until they clear their warehouses of stock as fast as it comes in. It is this over anxiety, this hot haste to have our product change hands for fear of loss, that brings prices down. You will observe that English Cheddar holds its own at 76-, to 80s. the cwt., year after year, and why? Because it can be kept a long time without depreciating.

with wickets should be arranged. leading to the rooms above or to the roof. Such a base-ment would add very much to the capacity of a dry-house, and by attention to drainage and ventilation, may be kept at a low temperature during hot weather. It may be provided with during not weather. It may be provided with hot water for heating if necessary, the pipes connecting with the boiler so arranged that heat may be supplied at any time with little expense. Here I would place at least a part of the cheese made in hot weather, and all with a because a would place be readily marked such cheese as could not be readily marketed at a good price.

Supposing every factory had a cool place for storing but 200 cheeses in hot weather, the quantity in the aggregate would be very considerable.

There are over a 1 000 factories in the State of New York alone—say that there are 1,500 in all-that can store 300 cheese each above present capacity, the gross amount would be 27,000,000 pounds. This amount kept from the markets in hot weather, safely kept without fear of deterioration, but retaining flavour and growing better in quality, would so relieve the trade that good prices would probably result on those shipped.

I would not advise the keeping of cheese at any time when fair prices can be obtained. Then I would adopt the Crosier plan of

leading the cold air from the ice-house. In this plan two conductors go down from the upper part of the ice-house. They are made of boards 8 inches wide and an inch thick, with holes bered in them. These holes allow the cold air to enter from the ice, and it pours in a stream from the mouths of the tubes into the room. The temperature of the air as it comes from the tubes is about 35° ; with thick walls and high windows he is able to lower the mercury to 62° , and even lower in the hottest weather of July. Sometimes he closes one tube; the draft is strongest in the nottest weather. By this arrangement and he hot wa'er pipes, the desired temperature may be secured throughout the season.

I do not pretend to give the best plan for ecuring a uniform temperature. I give that which is comparatively inexpensive and which has been found to be practical, to show you hat such an arrangement is within the reach f every factory, and that this matter of convrolling the temperature is not so difficult as airymen have been led to imagine. By this simple arrangement, probably the room imme-liately over the basement (if the outer walls ve properly constructed), could also be made cool enough in hot weather.

I would have every factory have store room so that at no time to be forced to sell for want of room.

Now, I have tried to show you some of the dvantages that would result from the proper uring of cheese, and from having enough tore room to hold a certain amount of hot weather cheese during hot weather.

Let me ill strate how this course would In the firs

Outside this, perhaps the most prolific caus of bad milk results from cows drinking the water of stignant pools, tramping through swales of mud which are alive with filthy organisms of decomposing vegetable and animal matter.

37

1 need only refer you to a few facts by which milk may be spoiled, while the dairyman suspects nothing wrong.

INHALING BAD ODORS.

Experience and scientific investigation have stablished the fact that milk taints in the cow's bag simply on scount of the cow inhal-ing bad odors while at pasture. This taint may not be perceptible the moment it is drawn any more than the physician can detect small pox in a person recently exposed to that discase, but the seeds or germs of putrefaction may be there, and in the case of the milk begins to give trouble to the cheese maker before his curds are ready for the press; or if he gets the curds into press without difficulty, the cheese not unfrequently shows an early taint, decays quickly, and turns out bad.

MILK TAINTED BY DUST AND BY BAD WATER.

I have seen numerous cases in which the milk has received a taint from particles of dust falling from the cows into the pail while milking. (The speaker here referred to two notable instances of this cause of bad milk that had come under his personal observation.)

I alluded in my report upon English dair-ics, made before the American Dairymen's Convention in 1866, to the character of English milk as cleaner than ours, and I attribu-ted the fine flavoured cheese of England in great measure to this one cause.

CONCLUDED NEXT MONTH.

SIR-Where can I procure from fifty to one hundred of what is known as the Silver-leaf or Abele tree ? B. D., Brant,

We cannot inform you. Perhaps C. Leslie, of Toronto, or Ellwanger & Bawry, of Rochester, may be able to supply them.

IMPORTANCE OF THOROUGH CULTURE.

But very few farmers in our country realiz But very iew larmers in our country realize the importance of thoroughly cultivating the soil; yet the soil is one of special interest, and one deserving the attention of every agricul-turist. Under the system of feeding which is generally practiced in this country, the land wears out and the crops diminish in quality and event is from year to year. Although nature quantity from year to year. Although nature has furnished man with a soil of virgin richness has furnished man with a soil of virgin richness and fertility, it cannot continue so while we draw from it yearly our vast resources of food and clothing. The soil must be renovated, and its fertility renewed, or it will cease to yield its increase for the supply of our wants. Money and labor must be expended upon it, and in or-der to develop the resources that nature has in-parted to it, it must be well tilled. There are farmers with but a few acres of land, which they thoroughly cultivate, and make more money than those with large farms cultivated in the usual manner. And what has been done in a few instances, may be done in many more.

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R NEXT.)

HOW TO IMPROVE CURING ROOMS.

But you will ask-In what way can curing rooms be improved, and in what way can buildings already erected be utilized ?

In the first place, wherever possible, I would have a cellar under the dry house. would have it six or eight inches below the surface, the walls rising above the ground two or three feet, or of a height sufficient to give an abundance of sunlight throughout the whole basement. I would have this room ten or twelve feet high in the clear, and the bottom should be thoroughly underdrained. Then the floor should be grouted and covered with cement or flagging, so that no leakage or ac-sumulation of sleps is pessible. Ventilators

kelv affect the markets he quality and flavor of the cheese would be mproved. In the second place, by withholdig a portion of your stocks, and by not crowding the narket at a time when it is a fearful ask for dealers to handle large quantities, you will be able to maintain a decent price for what you do sell. This natural consequence is a law of trade.

GOOD MILK.

1 have said that our great fault in American cheese making to-day is in the curing of the theese. I have said that with proper attention to curing, and with only ordinary skill in manipulating good milk, a first-class product can be made. I wish to call attention to that part of the affirmation expressed in two words -GOOD MILK.

We have a great deal of talk in New York about fancy chcese and high skiil in cheese making. Some factories have a great name in this respect. When an experienced cheese maker, who is attentive to his business, gets off the track, his trouble generally arises from imperfect milk, unsuspected at the time of its delivery. I do not mean imperfect milk, resulting from want of cleanliness in dairy uten-

sils and the general care of milk after it is drawn from the cow; that matter has been discussed from time to time at our dairy conventions, and farmers ought to be pretty well informed upon the evil effects of such filthy practices. Dairymen, it is true, are not up to the mark in this respect, for there are vast quantities of cheese every year injured by these means. But you will understand that among the gilt-edged factories this matter of cleanliness is becoming more and more rigidly enforced among patrons.

in the usual manner. And what has been done in a few instances, may be dene in many more. The maxim, "What is worth doing at all is worth doing well," is worth the attention of every farmer; as it is far more profitable to thoroughly cultivate a small farm, than to go over in a dovember a large over the over in a slovenly manner a larger one. Success is gained by making capital pay largely.

Poorly cultivated soil may look as well to the roughly done, but it does not so well answer the ends in view. The seed sown in such land springs up, but in case of drouth they soon springs up, but in case of drouth they soon wither away, because they have no deepness of earth, and a small crop is the result. But where the ground is well broken up and worked over and over, it is in the best possible condition to answer the ends of cultivation. Heat, and air, and moisture penetrate easily through the loose particles, and favor the germination of the seed as well as the after-growth of the plant, while if drouth intervenes, vegetable growth is hardly checked by it, as the roots strike out wide and deep in the trenched soil, and are independent of the state of the weather on top of the ground.

ground. The extreme high price of farm produce dur-ing the past few years has induced many farm-ers to plant more land than usual; but the pre-sent high price of labor, with the downward tendency of prices, should now induce them to cultivate less, and that in a more thorough man-ner. I believe that the same amount of the various crops may be grown on fifty acres that is now grown on one hundred, if every avail-able source of manure is resorted to, and every portion of our farm thoroughly tilled. Let every farmer, then, thoroughly cultivate all his farm, using manure unsparingly, and making it his aim to get the largest possible crop from every acre cultivated. every acre cultivated. CENTRAL NEW-YORKER.

Correspondence.

38

APIARY.

WINTERING BEES.

Much has been said on the subject and little light offered to the beekeepers of Canada. In the first place, what is the requirements of In the first place, what is the requirements of a stock of bees to stand the changeable win-ters of this country? We will sum it up in one word, "Strength;" that is, plenty of bees and plenty of honey, let their house he what it will. We find bees living in trees in the it will. We find bees living in trees in the most exposed places, with large openings even at the north side of them, and living from year to year and throwing off swarms just as early as those kept in houses, pampered and pun ished for the want of liberty. Bees when con-fined to their hives are always uneasy and striving to get to the light. Put them where you will, in-doors or out, open them and they are contented; no fear of cold as long as they are dry, but just as soon as damp gets in are dry, but just as soon as damp gets in around them there is danger whether they are indoors or out, but they cannot stand cold where there is damp no more than any ther animal. There has been a great deal said about bees going into a dormant state. Let that state be what it will, I find them heady to defend themselves when the cold outside the hive registered 23° below zero. I have known them to winter on their summer stand, exposed to all winds with an inch hole open on the top of the hive; and why is it? because they are dry. Bees left on their summer stands when winter sets in, throw off stram, which congeals around the walls of the hive until the whole thing is hermetically closed. Care should be taken in regard to openings in the bottom of the hive where sleet cannot close up. Strong stocks sometimes perish for want of air, when a warm day comes the heat of the bees and the sun outside the hive causes the ice to melt and fall to the bottom board, where dead bees, etc., should be re-moved, then when cold sets in the frost and wind makes the whole thing dry, in the meantime the bees move around to their sto es and supply themselves, and if quite warm they go out to discharge a necessity which, if de-prived, they will smear the hive. Some may say many bees are lost on the snow. If bees say many bees are lost on the show. If bees are kept in double-walled hives and placed in the open ground exposed to the wind very few bees will leave the hive, unless it is very warm. What few bees may fall on the show, which are mostly old bees that have lived their days out and take this means of getting out of the way, are no loss to the stock. They would have died if they had been closed up in the hive. Weak stocks lose very few bees when left out in the winter. If bees are kept indoors they get no benefit of the sun and wind, consequently they get damp and require closing up, which makes them uneasy and cou-sume more honey. If the cold gets at them they cannot stand it when damp; if in a warm place the same amount of steam arises which molds and saturates the whole apartment, and when set out in the spring are not in a condi tion for early breeding, and fail to throw of swarms sufficiently early to be valuable. Cobcurg. Ont. B. LOSEE. Cobourg, Ont.

The advantages of this method are cheap-ness, and, if done right, no cold will pass through; it is as cool in summer as a brick wall and equally warm in winter. No rate, mice or any other vermin will enter it at all. and fire will not burn it. I have seen a house burnt down, leaving the salted straw standing, blockward many this the heards inf the a blackened mass, while the boards of the ceiling were burnt. I know that the idea of using straw is at first really frightful, but the objection is only in imagination. Tan bark and saw dust have been used, but proved very unsatisfactory; also, brick and mortar, but they are rather too expensive. I do not know of any real objection to the use of salted straw except an unfounded prejudice. GANANOQUE.

Kingston, 26th Jan., 1872.

We presume our correspondent intends the cracking or splitting of the boards to be done for the purpose of preventing large seasoning cracks from tearing the canvass. It is our belief that the plan would be very valuable in many places.

GOOD WORDS.

COMPLIMENTARY, ETC. SIR,-Please find enclosed \$3 for your ighly-esteemed ADVOCATE. I feel as though and my family could hardly get on without

it. I think that every farmer should peruse its pages. I also admire the stand you take respecting the Agricultural Farm about to be established in Ontario, and sincerely hope that the present Government will consider the question, and spend the money to a much hetter advantage by increasing the grant to Agricultural Societies, and thus enable us to extend our prize list, and give prizes for the best cultivated farms, farmyards, and other improvements. You may hear from me again. J. R., Thorah.

Beaverton, Feb. 3, 1872.

We touch on political questions affecting our agricultural interests, but do not wish to interfere in the strife between Reformers and Conservatives. The political platform on which we stand, for which we are fighting, and have always been found on, is FARMERS' RIGHTS! Our rights and interests have not been as well looked after or guarded as many other interests. This paper is for farmers to express their opinions in. Should we retire from the field of publication we doubt if you will have an agricultural paper published in Canada which is not supported by a political party and for political purposes. Use the Farmers' Advocate while you have it ; the time may come when you will have it only in name.

respondence. What say you, Mr. Editor? will you give us encouragement? That letter writing will strengthen our ideas and bestow a reasoning power at maturity is the firm conviction of one who is anxious to see the farmers' sons persevering and advancing with the times, and that this effort may be only a precursor to much intelligent correspondence is the simi and object which induced your obedient servant to write. Believe me, Mr. ALPHA. Editor, yours, &c.,

SUGGESTED ITEMS-NO. 2.

SUGGESTED ITEMS-NO. 2. FRIEND ADVOCATE. — I am very much pleased with your January number; it is far ahead of your former issues, though they were good. In fact, your article on music is worth the year's subscription. It is a fact us farmers seem to forget that man is capable of such high and noble enjoyment as music will give to men above that of the brute croation, and I believe no one thing will give to children that love of home that sons and daughters ought to have, as music, yocal and instrumental, blended harmo-niously together. How sweet to the farmer it would be when he returns home from the fields to have his thoughts lifted from the earth and its cares and toils, and to cultivate those organs of the mind, that had been id e during the time of the mind, that had been id e during the time he had been at work, those organs which Phre-nologists call "Ideality," refinement, taste, purity, and "time," sense of harmony, and

melody. It has been thawing this few days, and in some parts of Ontario it will be bare ground. Cattle will roam over the fields if allowed. It is bad policy to let cattle go where they please for two reasons; first, as cattle wait. please, for two reasons; first, as cattle waits something sweet, they will pick the grass roots, something sweet, they will pick the grass roots, so it will not grow so well again. The ground being soft they will cut it up bad with their feet, making a bad bottom to mow over. Sec-ond, they will not eat their food near so well when they have got a track of the sector of the ond, they will not eat their food near so well when they have got a taste of the grass. They should be shut up in a yard except when taken to water, and I believe most cattle-breeders ad-vise to water twice a day. I believe them to be right; but how many cattle get a good, quiet drink once a day? Some suppose that in win-ter, more especially in the cold days, that cattle do not need any water. But it is a great mis-take. They should not be out long, but should have a good drink, for cattle are dry in winter as well as summer. Have your water in the yard if possible. Cattle like spring water is warm in winter. We did not let our cattle on the meadows last fall, but cut some of the on the meadows last fall, but cut some of the on the meadows last fall, but cut some of the second crop for seed. I have not threshed it yet and do not know how it will yield, not big I think. The seed seemed full and plump, but rather small in size. I can get it threshed and cleaned for 75c. per bushel. We expect to have as much as will do ourselves to sow, and pay for the threshing, besides the straw will be better than nothing this season when fred is so high. Since commencing these items it has frozen Since commencing these items it has frozen very hard, and the roads are very icy; even about the yards it is dangerous for cattle, especially cows heavy in calve. Do not allow young horses out when your cows are out, as hurt then they will run less. Cows in calve should be carded once a week, free scope at salt under cover somewhere in the yard, and one quart of pea or corn meal once a day, besides their usual food. This will keep them in good trim, and you will get You head my items with "What I Know of Farming;" but before I am done you had better write "What I Don't Know of Farming," and most of your readers will come under that head too. I would like the school of the sc I would like to ask a few questions head too. for my brother farmers to inform me on. What is the cheapest and best method of pulling, is the cheapest and best method of puring, cleaning and putting into a fence, pine stumps from 20 to 50 inches in diameter. Soil sandy loam. What is the best way to secure the growth of young forest trees? Has any of your readers ever fully tried salt and plaster for turnips and other roots, and the best mode of applying the same? I would like some of our readers would give us their opinion on here subjects. HORACE. these subjects. Rockton, Feb. 13, 1872.

plow, both the wheel to lighten draught and the Subsoiler being arranged for use with any plow at present constructed. 3rd, the advantages claimed for Lamb & Warren's Subsoiler are that it is a complete pulverizer, and that with one team of horses the plow will at least make a furrow 6 inches deep and the Subsoiler 6 inches more, making a depth of 12 inches in all secured without any extra cost for labor. 4th, this attachment has the advantage over all others of pulverizing the earth by the motion of the plow, causing the mould to pass through between the two coulters, opening without and duly disturbing the soil, leaving a porous subsoil as a receptacle for the surplus moisture and a storehouse to nourish the roots of growing crops. 5th, there is a Halton Subsoiler occasionally seen in use which is of heavy draught and is used with from 2 to 4 horses. This Subsoiler has to follow after the plow ; tears up the furrow to a depth of 4 to 8 inches and from 7 to 9 inches in width. It is inconvenient for general use and has the additional objection that it closes the pores of the earth and prevents the moisture from filtering through. Messrs. Lamb & Warner, the patentees of the Combined Plow and Subsoil Attachment, will no doubt be happy to answer further inquiries on addressing them at Strathroy, Ont.

DOMINION STUMP EXTRACTOR.

SIR,-Please inform me how that Stump Extractor works, what is its size and what they are sold at. I have a great many hemlock are sold at. I have a great many hemoty stumps scattered all over my place and I don't think they pay. I think by the appearance of the Stump Extractor that it would clear them out. Please send the terms as I am thinking of getting something of that sort. R. CATHERS. Molesworth, Jan., 18, 1872.

The Machine is worked by a span of horses ; a double pulley is attached to the lever, the horses walk steadily off, and up comes the stump if not a very large one. For very large stumps two levers are used, the stump being hitched to several times and drawn up by degrees. It is the quickest and best machine we have seen, and we believe you will be well satisfied if you procure one, indeed we have not yet heard of anyone being dissatisfied with them. The terms are generally cash, but short credit is sometimes given, or part down and a longer time for the remainder.

THE FARM.

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BUILDING.

TO BUILD & WARM HOUSE.

SIR,--Will you allow me to tell you how to build a cheap wooden hcuse, and one that can be cheaply kept warm, which is much desired in a country where the cold is so severely felt as in Canada, and where firewood is no small item of necessary expense ?

Let a frame house be built as usual, with this exception :- Instead of studs of 4-inch scantling, use 4-inch boards from 6 to 12 inches wide, as you may choose, and about 15 inches apart. On the outside it may be rough-boarded, clap-boarded or plastered, according to fancy. Then on the inside board it with 1-inch boards, cracked as if to plaster, but as each beard is put on let all the cracks be closed tight as if the boards had not been split, being careful that the edges of the spirt, being careful that the edges of the boards exactly match each other. As each board is nailed on, stuff (by hand) all the open space between the outside and inside quite tight with "salted straw," prepared the previous day in a pile, with a little water thrown on to dissolve the sait. If cheapness is desired, cheap cotton may be used to paste on the inside boards, using the paste very freely. If the cotton is well put on the inside ceiling and then papered it will be equal to a plastered wall in every way, and cannot be detected without close examination.

TO FARMERS' SONS.

I say, boys, look here ! Why should the old hands monopolize the whole spirit of the correspondents' space in this valuable journal? We have here a paper specially devoted to the agricultural interest, and we gather from the frank and earnest views of its Editor that any communication touching the progress of the agriculturist is acceptable to its columns and will be courteously admitted. The idea has struck me with some force that we (the sons of farmers) might employ our latent abilities and budding ideas for one another's advantage and improvement by entering on a communicative correspondence through its columns. The opportunity is seasonable and should be turned to good account. There are many-indeed, most of us-who have spare time upon our hands these long winter nights which might be devoted to useful employ-

ment, to profitable occupation and in applying to a practical use the theories inculcated at school. What, then, is better for this purpose than t) sit down and write a letter, embracing some practical idea that might have been suggested to our minds during the work of the day ? If we are in error or if we are correct on any subject we know by bringing it into public notice that it w ll attract attenticn, and pioduce a corrective or affirmative result. If we are at fault in conjecture upon any little matter of ca'culation or detail, destined maybe for our future life, youth is the best period to enquire. Store the young mind with facts that will carry conviction for usefulness. Let us begin then and establish a character for improvement by writing our current ideas to the ADVOCATE. If we are not perfect in etymology, syntax or prosody, letter writing and its corrected form in print are the best incentives to stimulation. The time will not be lost if it only teaches us where we committed an error, and what to improve in future cor-

IMPLEMENTS.

NEW SUBSOILER, ETC.

Sin,-I would feel obliged if you would inform me through your valuable paper what the cost of Lamb & Warren's New Subsoil Attachments are ; if they can be used on any common plough, and if there is any plough that works without a mould-board and has a share in place of two cultivator teeth. Let me know if your McCarling wheat grows with square heads l ke barley. By answering these few simple questions you will much oblige A New SUBSCRIBER. oblige Amherst Island, Feb. 5, 1872.

In answer to the above we may state :---lst, the cost of Messrs. Lamb & Warrens' Combined Plow and Subsoil Attachment is \$12. 2nd, it can be attached to any SOWING RAPE.

SIR,-I wish to be informed as to the best ime to sow rape for summer pasture and how much seed is required to the acre; also if it will answer to sow it on summer fallow that is intended for fall wheat. If you or any of your readers will answer the above queries, I will feel much obliged.

Wilfrid, 15th Feb., 1872.

"D. K.," or any other person asking questions, should send their names to us, as in such cases, the name should appear. What harm will it do you ? It is different to a person writing an article, for in that case he may be attacked, and it is well to have a shield. If you are ignorant about any subject, however trivial it may be, it does not show your wisdom to ask and remain in darkness; it shows that you are tco haughty to learn, which is a bad fix to be in, and we have sometimes found it so to our loss. Sow the rape at turnip seeding time; you will not get half the good of it if you sow it in summer fallow. As it grows late, like the turnip, perhaps some of our readers can send us an article on its culture.

WE received a registered letter containing \$1, with Kingston post mark, Feb. 15. The sender will please give his name, in order that we may credit him with the amount.

DOES FARMING PAY?

SIR,-In the September number of your paper there is an article with the above head-Now, I have read the article, and at ing.

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explain his meaning, but he appears to have satisfied himself when he told that he was the best writer in the school. I will venture to say that he is not the best farmer in his township. I would recommend him to open his eyes and look around him, and see if he can reckon one farmer who is not better off now than he was ten years ago, for every ten who are worth a dollar for every cent they were worth at that time. Perhaps I am laying it on a little too heavy, but I am certain that if as many men go into any other business, with the same capital both in money and knowledge, as go into farming, where there is one failure in farming there will be ten in any other business. Let farmers be educated in their business and there need not be a farm in Canada which does not pay for working. It is a notorious fact that farmers as a class know the least of their business than any other class in the country, and the reason is obvious ; if a man does not know enough to make a living at anything else, he can make one at farming. Now I do not want anybody to imagine that I think all farmers ignorant Far from it ; I know there are among farmers as intelligent men as among any other class, which makes it harder for the ignorant to keep up their heads as they have those intel-ligent men to compete with. But really I don't know but that I have made a mistake, for if they had not the intelligent ones to introduce superior stock, seeds and implements; they would soon go to the d-dogs entirely.

But if I do not mind I will get on to another subject. I started this in order to try and induce "Young Canadian" to try and find out the reason why farming as a general thing is not made to pay, and how anybody can see hundreds of farmers who commenced the world with nothing but their hands to labor with, and not so long ago either, who are now independent as far as having plenty of money, good farms, and good buildings will make them so, and who never done anything but That such men exist all around us no farm. one can deny. Then how in the name of common sense can any one ask if farming RUSTIC. pays?

We are much pleased with "Rustic's' letter, and we hope it will wake up "Young Canadian." The subject is a good one and gives both a fair field, and we hope "Young Canadian" will not let the subject rust as long as "Rustic" has. Six months for a reply is rather long, but better late than never. We will give a fair space for argument.

HORSES PUTTING OUT THEIR TONGUES.

SIR,-In reading your paper I see that Mr. McTavish, of Lebo, enquires what is the cause and how to prevent a horse from putting his tongue out. The cause is that when colts are breaking they get into the habit of getting the bit under their tongue, to prevent which the bit must be made to bear against the roo of the mouth, so that they cannot get their tongues over the bit.

first I expected the writer to follow it up and apple and pear trees from the Windsor nursery, which were well packed and addressed carefully, but owing to the carelesness of the agents of the "Lady Head " steamer, they were left in Quebec for two weeks in the first of November, and when I got them they were all frozen hard. I laid them in a cellar and covered the roots with easth until the spring, covered the roots with eaith until the spring, then planted them out, but only one pear and five apple trees lived. I find that early apples are the only ones that do any good be-low Quebec. The late kinds do not ripen the-young wood sufficiently to stand the frost in winter. In the spring of '70 I ordered from Mr. James Dougall a few early kinds, which are doing vary wall the frost bes not injured are doing very well, the frost has not injured the young wood in any way. The late kinds make no advance, having to cut the young wood back so much every spring. Even the St. Lawrence apple does not ripen its young wood.

W. M. Evans, Esq., of Montreal, advertises a few kinds of apples in his catalogue, but a few kinds of apples in his catalogue, but does not say whether they are standard or dwarf. With the excertion of three kinds they are all late and winter varieties. Had they been early kinds, I would have advised those wishing to purchase apple trees below Quebec to have done so from Mr. Evans, as the freight is always over double the first cost of the trees from Ontario, and also great delay in forwarding it. in forwarding it.

On the 12th of September we had frost which froze down potatoes, peas, beans, also grain which was backward in ripening. The potates were not half a crop, having been struck so very early with rust. Grain

Yours truly, and hay crops very good. JOHN G. FAIR.

New Carslile, Q., Jan. 19, 1872.

CROWN PEAS.

SIR, -The year before last I tried a few of the Crown Peas and did not think much of them at that time, but last year I tried them again, and threshed 35 bushels from only three-quarters of an acre. THOS. ROBSON. Vanneck, Feb., 1872.

M'CARLING WHEAT, ETC.

SIR,-I procured 1 a pound of McCarling wheat from you last spring which yielded me 3 pccks of clean wheat after threshing, and was of much better quality than the seed from which it was sown. I think well of it, and expect it will be an acquisition to the farmers of Canada. The New Brunswick oats I re-ceived from you also did very well, yielding more than any other variety I have sown.

You are doing much good to the country by the dissemination of seeds from your Em-porium and the spreading of information through the ADVOCATE. I am surprised that so many of the farmers do not subscribe for your paper and that many of them patronize American papers in preference to their own independent Canadian paper which has done so much for their interests. Do not be discouraged, Mr. Editor ; you will yet have the country's acknowledgment of the services rendered through the Emporium and ADVOCATE. WM. MCKENZIE. Yours truly, WM. East Nissouri, Feb. 1st, 1872.

ward path of degeneracy and that when the "sear and yellow leaf" of its organization becomes enfeebled in its decline, that the decay ensues; and hence the disappearance from our midst of so many well-known selections, whose approved choice for excellence tions, whose approved choice for excellence and notoriety were once as "familiar as house-hold words," but have now vanished from-reality like a pleasing dream. In my humble opinion—and I only write for the purpose of suggesting a feasible cause—science must fix its grip to confound the argument of the po-tate haing a parameter unchanged by in its tato being permanently, unchangeable in its entire perfection. It must show it to be a temporary shadow of imagination and a fal-lacy to suppose that any laws of cultivation or careful selection of adapted soil will pre-serve or prolong its destined agency. If this is the cause cannot the remedy apply to a culture by perseverance and propagation from the seedling ? If these remarks, Mr. Editor, should affect

any instructive comment for advancing the growing demand for this root, my aim will be rewarded, and, if you wish it, may revert again to the subject. WILD VINE. Westminster, Feb. 17th, 1872.

We thank our correspondent "Wild Vine" for his contribution. The very principal he aims to establish appears to be the one that we have labored for the past seven years to bring before the public, that is, the actual necessity of having new varieties of seeds. We shall be pleased to have more from the same pen.

SEED REPORT.

SIR,- The 4 ounces of McCarling Wheat I SIR,- I he a onneces of McCarang vy heat I got from you last spring did first rate. I have 6 lbs. and some ounces of it and it is beautiful grain. It was sown near some other wheat and had no extra chance or care. The Norway Oats had no extra chance or care. The Norway Oats I got from you two years ago are, in my esti-mation, a humbug. They yield no better than other oats, nor can I see any difference either in growth or looks. The Surprise Oats appear to be a prime article, good and heavy, but I do not think much of either the Norway or the New frumswick Oats although the dry season do not think much of either the how of season New Frunswick Oats, although the dry season and the soil may not have suited them. The garden seeds I got from you were fresh and all of them grew. They are the first good seeds I ever got. DAVID JOHNSTON.

ever got. Whittington, Feb. 16, 1872.

HORTICULTURE.

THE ORCHARD.

SIR,-You will recollect when you paid me visit last summer that, at your request, I promised to try and write short articles for the ADVOCATE. Hoping you will pardon me for neglecting it so long, I will now give you some sketches from my Diary for 1872:

Jan. 5.—Took a trip twelve miles to see a friend and counted as I rede along 35 orchards composed mostly of young trees. Twenty of these orchards had the gates open or the fences thrown down, so that cattle could roam in them at will. Nearly all the trees were more or less browsed, and one orchard had pigs, colts and sheep in it. I counted eight trees about five inches in diameter, with the bark gnawed off three to five feet high. Such sheer negligence as this to an enthusiastic fruit-grower seems almost criminal, and I must say that I felt like getting out of my sleigh and going in search of the owner and giving him what some would term a good blowing up. Only five orchards out of the 35 could be said to be in a prosperous condition, and I think I am not far astray in saying that not more than one tree in twenty that are planted out lives to produce a fair crop of fruit.

lance is the price of good fruit." If the au-thor had said that "Eternal vigilance is the price of good fruit trees," he would not have been much astray, for he that has tact and skill to raise and manage fruit trees properly and have them in the best possible condition, will not fail to grow good fruit.

39

2. Many fail tor want of a good fence. A straight fence is best, as worm fences afford shelter for mice, which often girdle and de-stroy the trees. The best plan is to fence well first and plant afterwards.

3. Many fail because they do not protect 3. Many fair because they do not protect their trees from mice in winter. The best plan and the cheapest is to take four feet lath, cut it in two feet lengths, set on their ends around the tree the number of pieces' ra-quired, which fasten at the top and bottom by lapping a piece of fine wire around ; give it a twist to hold it in place, and your trees will be safe.

4. Many make a mistake by putting the erchard where they will have to pass through erchard where they will have to pass through with teams to get to the house or barn, or perhaps they have a narrow lane alongside which gets filled with snew; the ordiard fence must be thrown down to get out, and in a few hours the labor, of years is lost. The far-mer's road to his buildings should be at laast

5. Many failures are caused by planting in wet land without drainage. Fruit trees will not prosper with wet feet.

net prosper with wet leet. Lastly. There are many cases of failure through ignorance in planting, carelessness in plewing and so barking the trees or breaking off the roots. The best time to plow and harrow a young orchard is before the leaves are out in the spring or after they fail off in the fail, as then the bark is set to the wood. Every farmer should understand how to prune, graft, &c. S. H. MITCHELL. prune, graft, &c. St. Mary's, Feb., 1872. S. H. MITCHELL.

Selected for the FARMER'S ADVOCATE. " I WILL BYE-AND-BYE."

You may as well resolve you'll never do it ! I am out of all patience with these "bye-and-bye" folks. "One hour of present tense is worth a week in the future."

week in the future." Why, I know a bachelor as well calculated for matrimonial felicity as every virtue and every accomplishment can render him; but he has been putting off the happy time from one year to another, always resolving that he would marry "bye-and-bye" and "bye-and"—till the best ten years of his life are gone, and he is still resolving, and I fear will die the same. He that would gather the roses of matrimony should wed in the May of life. If you only wish the withered leaves and thorns, why put it off till September? September ?

-Procrastination is the thief of time.

l as to the best basture and hew acre; also if it ner fallow that f you or any of above queries, I D. K.

person asking r names to us, should appear. It is different ele, for in that nd it is well to ignorant about it may be, it n to ask and revs that you are h is a bad fix to nes found it so at turnip seed-t half the good ner fallow. As turnip, perhaps nd us an article

l letter containt mark, Feb. 15. re his name, in him with the

PAY

number of your the above heada article, and at

We have started a Farmers' Club in this section, and I think it will be of great benefit. THOS. HENDERSON.

Ingersoll, Feb. 13th, 1872.

SEEDS.

SEEDS, TREES AND PLANTS.

SIR,- The garden seeds I received from you in the spring have all done well. Bresee's King of the Early potatoes did not turn out as well as they were represented ; they grew large but were quite soft and watery. The Early Rose variety, planted in the same soil, is much better both in size and quality and is quite as early. The Prolifics have turned out well both in size and quantity ; they are also very dry.

I would recommend James's Improved Scarlet Carrots to all your readers who grow carrots in their gardens; they also answer well for a field crop, being much before the Early Horn variety. And 1 must say that farmers who have not a nice vegetable and flower garden located near their hcuses lose much both in taste and usefulness. I have always had both, and I would be quite at a loss how to spend a spare hour if I had not my flowers and cabbage plants to look after morning and evening, when the more arduous tasks of the farm does not interfere.

My experience in apple trees has been very little since I came to America. Four years cellence, may there not be some reason for last fall I ordered two dozen and a half of the impression that it then falls into a down-

CROWN PEAS.

SIR,-The Crown Peas I get from you have done extremely well. They yielded just one-half more than my golden vines, the yield being 384 bushels to the acre. The other half more than my gout The other being 384 bushels to the acre. The other being 384 bushels to the acre. J. R. Topp. new seeds have done well. Kilsyth, Feb. 16, 1872.

THE POTATO.

SIE,-The selection, the cultivation, and the propagation of that valuable esculent root, the potato, appears to be an absorbing topic of discussion in every agricultural pubtopic or discussion in every agricultural pub-lication. The vaunted qualities, their choice perfection and varied charms come in for special observation. Now, sir, I wish to raise a theory that seems, in my perusal of these a theory that seems, in my perusal of these discussions, to have been omitted, and that is how long or how endurable are these quali-ties supposed to exist ? Echo answers, yes, how long do these monitors for methods of planting and the selection of soil for planting imagine the standard quality is to endure? Reason, pausing for a reply, insinuates (a fact apparently) that it can only endure so long as nature endures to feed this perfection, and no longer ! Having fulfilled its mission to a given degree and maturity having brought its desired end and quality to a standard of ex-

There are in every section of the country some careless ones who fail in almost every-thing they undertake ; but such rarely ever have enterprise enough even to attempt to grow an orchard. There are farmers who succeed well in other respects whe, neverthe-less, utterly fail to raise a good fruit orchard. Now, the question very naturally arises, why is it that farmers should thus waste their time and money in planting fruit trees, and then carelessly allow them to be thus destroyed. I will endeavor partially to answer the question and point out what I believe to be some of the reasons .

1. Many plant orchards without first count ing the cost, and seem to think they should grow like the trees in the forest, without further care. But they should remember that scarcely one in a thousand of the seeds that germinate in the woods ever mature a large tree. There is a proverb that "Eternal vigi-

--Procrastination is the thief of time. I made a visit last winter to see my old friend. When we had put our herses into the stable he took me to his barn floor to see some of his white wheat he had just threshed. I ob-served to him that one of the boards of the barn was nearly failing and he had better nail it. "I will hye and bye?" said he. Things about the farm looked a little as though "bye-and bye" folks lived there. Next morning the boys came running in with the and news that an unruly bull had torn off the board, and all the cattle had supped and breakfasted on the white wheat. An old brindle cow in the drove was foundered so bad that she died. Now, three or four malls worth a penny and five minutes time would worth a penny and five minutes time would have saved the life of old brindle, and the white wheat into the bargain. " Remember a stitch in time saves nine.

in time saves nine." Passing by a neighbor one day last spring I saw that his wife had made a fine garden, and the early peas were springing luxuriantly above ground. "Neighbor, but there is a hole in your dence which you had better mend, or the hogs will ruin your garden." "I will by e-and-bye," said he. Happening to pass there a few days after, I was half deafened with the cry of "Whoa, whoa-stuboy, stuboy!" A drove of hogs came along, and while my neighbor was taking a nap they had crawled through the broken fence and destroyed the labor of a week. "Never put off till to-morrow what you can do to-day."

to-day. Bury's Green, Feb. 13, 1872.

The next will be a shortlecture for the month of April.

From careful experiments it has been discovered that plants slightly watered every day often perish, and always become dwarfed; whereas a good seaking given twice a week almost invariably proved very beneficial. Thorough soaking of the ground two or three times a week is much better than the same amount of water applied in driblets daily, only sufficient to wet the upper surface, but not the under strata of earth contiguous to the roots.

Jouths' Departmeut.

40

CORRECT ANSWERS.

RIDDLES.

Alex. Rivers, Berlin; Sam. Wherry, Newry; Maggie M. Potter, Berlin; C. L. Somba, Thamesville; Ellen Camther, Glenvale; Eliza-beth McKewan, Sutherland's Corners.

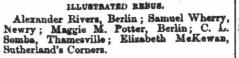
ILLUSTRATED PUZZLES. Elizabeth McKewen, Sutherland's Corners; G. L. Somba, Thamesville; Alex. Rivers, Berlin.

CAUTION.

Alex. Rivers, Berlin; C. L. Somba, Thames-ville; Elizabeth McKewan, Sutherland's Cor-

ners.

GBOGRAPHICAL FUZZLE. Klizabeth McKewan, Sutherland's Corners; Ellen Camther, Glenvale; C. L. Somba, Thamesville; Maggie M. Potter, Berlin; Alex. Rivers, Berlin.



WHAT IS HERE ?

Elizabeth McKewan, Sutherland's Corners; Samuel Wherry, Newry.

WHAT DO YOU SEE IN THIS PICTURE ? Alex. Rivers, Berlin; C. L. Somba, Thames-ville; Eliz. McKewan, Sutherland's Corners.

WHERE IS THE ENERY ?

Elizabeth McKewan, Sutherland's Corners; C. L. Somba, Thamesville; Maggie M. Potter, Berlin; Samuel Wherry, Newry; Alex. Rivers, Berlin.

GOOD ADVICE.

Alex. Rivers, Berlin, Maggie M. Potter, Berlin; Eliz. McKewan, Sutherland's Corners. CROSS-WORD ENIGNA.

Elizabeth McKewan, Sutherland's Corners.

TLEUSTRATED REBUS Alex. Rivers, Berlin; Elizabeth McKewan; Sutherland's Corners.

HIDDEN ANIMALS.

Elizabeth McKewan, Sutherland's Corners. Correct answers to Hidden Animals, which appeared in the Jah. number, were sent in by J. S., of Chatham. Look over that paper again, and you will find amusement in it: Names of other persons who sent correct answers to amusements in Jan. number. They were omisted last month.

HIDDEN ANIMALS.

9. Emu.

1.	Rat.
2.	Deer.
3.	Hare.
4.	Mink.
5.	Mole.
6.	Seal.
7.	Zebra.
8	Horse.

ACROSTIC. BY S. WHERRY, JUN.

Farming for profit and farming for wealth; And farming just for the good of your health, Riches and plenty you soon will possess-Might be ten thousand or just a mite less. If farming don't pay, I'll tell how it will; Now listen to me, and keep very still :-Get the ADVOCATE paper for one dollar bill;

ENIGMAS.

My fifst may be made of iron of wood, and is sometimes used at a termi of contempt te describe a slow, stupid pers n; my second may be compressed into a second of time, or may include centuries; my whole is a kind of tax. Divide an officer in our townships, and leave combat and a cavern.

My first is something good to eat, And relished by the many ; Mý next is unadorned and bare-Scarce welcome 'tis to any ;

My whole is hue diversified, Whether 'tis natural or dyed.

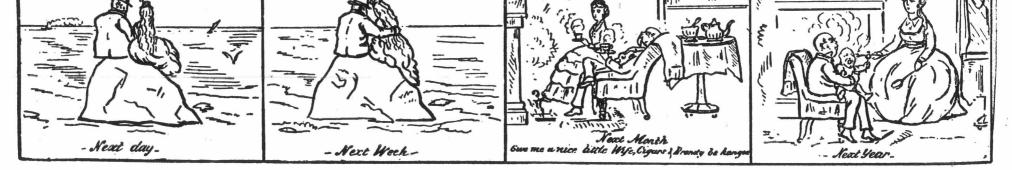


Around 1

This is real cosy quietly for once—f reading, sisters kni reost, and I writ. ADVOCATE. I fin knitting work ab undertook the deli their little beds" and four. Such they are, to be sur to see if they coul Although it won't must confess we have floor. We weren' No sooner were gowns than they r a game of bo-pee and round the c I got them upstai of arms around m " I love oo, sister trotting along by tired now !" Aft tired now !" me down to sleep and both turned lows. Oh ! thuse we do without th

I was feeling of the world and forget all care childhood ! and person be who frolics and gamb I beg ten thou some of my frien such commonple and family ; but so they will have Now, ladies,

try and make yo fortable in the a great amount finished before petted nables w warm, tidy room their hard day's too. of seeing t a c eau dress, a I know it is h look and speak day over the nothing but gi fires, and there beiler, so that attempt to scal hard, dear sist s upper, say this me to keep a p home cheerful sometimes; bu have our rewa bauds a d bro and they will h of our comfort had company



A LESSON TO WOMAN HATERS.

FRUIT REBUSSES.

- 1. A color and a pledge. 2. An interjection and to rove.
- 3. A tree that grows best in a sandy soil and
- a well-known fruit.
- 4. A domestic fowl and a small fruit. 5. A useless dog and to bluster.

ACCROSTIC.

Merry birds begin to sing, At the first approach of spring; Running streams and rippling rills Chase each other down the hills; Hail the glad return of Spring JAMES LAWSON.

A RIDDLE.

A farmer sends his boy to the smith to have a horse shod. The smith takes off the old shoes from the horse's feet and with the same old shoes he makes four new shoes, which he places upon the feet of the horse. The horse places upon the feet of the horse. The horse then being re-shod, the boy is sent home again, but takes the old shoes that were, in his pocket. How is this done ?

This is not original, but very old, though it may be new to young people.

PUZZLE.

Four people sat down one evening to play, They play'd all that eve, and parted next day; Could you think when you're told, as thus they all sat.

No other play'd with them, nor was there one bet ?

Yet when they got up each gained a guinea, Tho' none of 'em lost to th' amount of a penay.

EPIGRAM.

When Eve brought wo to all mankind, Old Adam called her wo-man, But when she woo'd with love so kind He then pronounced her woo man. But now with folly and with pride Their husband's pockets trimming, The ladies are so full of whims The people call them whimin.

RUSSIAN PROVERBS.

For the benefit of our juvenile readers who indulge in the game of "Proverbs," we give this month a few Russian proverbs which are

" ano dota

"A good beginning is half the work." "Trust in God, but do not stumble yourself." "With God, even across the sea; without

Him, not even to the threshold." "Money is not God, but it shows great

- mercy." "The deeper you hide anything, the sooner
 - 'A debt is adorned with payment.'
- " Roguery is the last of trades."
- "Never take a crooked path while you can see a straight one." "Fear not the threats of the great, but rather
- the tears of the poor."

"Ask a pig to dinner, and he will put his feet on the table."

"Disease comes in by hundredweights and goes out in ounces."

- "Every little frog is great in his own bog." "An old friend is worth two new ones." "Be praised not for your ancestors, but for
- - your virtues." "When fish are rare, even a crab is a fish." "A father's blessing cannot be drowned in water, nor consumed by fire."
- "A mother's blessing will draw up from the depths of the sea."

THE PUZZLED DUTCHMAN.

I'm a broken-hearted Deutscher, Vot's killed mit crief and shame ; I dells you vot der drouple ish--

I doesn't know my name. You dinks dis ferry vunny, eh?

- Ven you der shtory hear, You vill not vonder den so mooch
- It vas so shtrange und queer. Mein moder had two liddle twins,
- Dey vas me und mein broder ; Ve lookt so ferry mooch alike,
- No von kn w vich from toder.
 - Von ov der boys was "Yawcup," Und "Hans" der oder's name;
 - But den it made no tifferens, Ve both got called der same.
 - Vell! von ov us got tead-Yaw, Mynheer, dat ish so ! But vedder Hans or Yawcup
- Mein moder she ton't know.
- Und so I am in drouples, I gan't kit droo mein hed Vedder I'm Hans vots's lifing, Or Yawcup vot ish tead /

Our Young Felks,

SIR,-In di tions of the fa the best and also dues it outlay, if we sir, with reg country, whea finds a prett price. As to and peas, we them in Cana mers are no and they ar per lb. I th pronouncing will probably these have motton which Not much m Now, there our hot sum sugar beet. dress at Ki of the conti nearly if not the market. this country capital would the country, ton for the industry op mense bene turers and o every-day u and if it cou and only a annually se it of the for our farmers be a saving

Around the Hearthstone.

This is real cosy now. We are all sitting quietly for once-father, mother and brothers reading, sisters knitting, the little folk gone to reading, sisters kineting, the neuron point for gone to roost, and I writing to my dear friend the ADVOCATE. I finished that tedious piece of knitting work about an hour ago, and then undertook the delightful task of "putting in their little beds" two little sisters, aged two and four. Such mischievous little monkeys they are, to be sure ! They had quite a scuffle to see if they could'nt tumble me on the floor. Although it won't add much to my dignity, I must confess we had quite a scramble over the floor. We weren't very quiet then, I tell you. No sooner were they arrayed in their night-gowns than they ran away from me; and such a game of bo-peep as we had under the table and round the chairs before I caught them I got them upstairs at last, with one little pair of arms around my neck and little lips lisping, "I love oo, sister !" while the other little pet, trotting along by my side, sang, "Birdie, I am tired now !" After they had said, "Now I lay me down to sleep," one said, "Dat'll do now !" and both turned a summerset over the pillows. Oh ! those little sunbeams ! what would

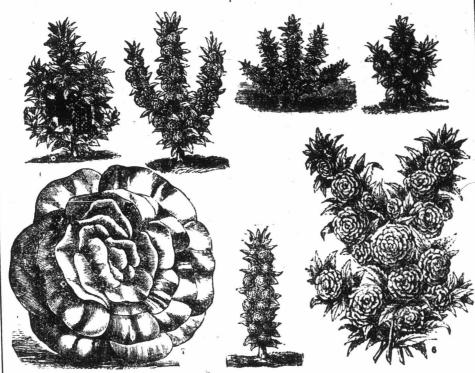
we do without them ? I was feeling weary and sad to-day, weary of the world and its ways ; but who does not forget all care in the presence of innocent childhood ! and hard-hearted indeed must the person be who cannot take pleasure in the frolies and gambols of kittens and babies !-I beg ten thousand pardons ! I forgot that some of my friends object to my writing about such commonplace things as my own home and family; but I couldn't he p it this time, so they will have to forgive me as usual.

Now, ladies, and womenkind in general, do try and make your homes attractive and comfortable in the evening. Supposing you have a great amount of work to do, try and have it finished before dark, if possible. Those big, petted babies we call men, are very fond of a warm, tidy room to sit in, in the evening, after their hard day's toil. They are also very f. nd, too. of seeing their wives and daughters with a c eau dress, a smiling face, and a c dlar en. I know it is hard somet mes for a woman to bok and speak plea-ant after working have al day over the washtub, e pecially n she has nothing but green, wet wood to make the fires, and there is a hole worn through the beiler, so that the fie is drowned in the attempt to scald the white cothing. But try hard, dear sisters, and every evening, before s pper, say this little prayer : "O Lord, help me to keep a pleasant co inter nee, and make home cheerful and naspy." We need to pray sometimes; but let us persevere, and we shall have our reward by having our fathers, husbands a d brothers prefer home to the club and they will be kinder and more thoughtful of our comfort of kept from the off ence of bad company and workey. J. F. INCH.

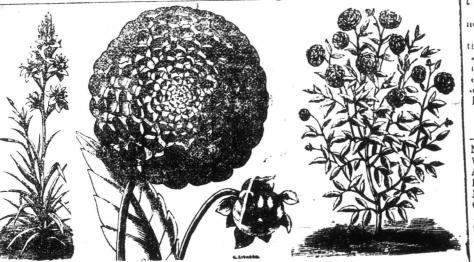
comparatively poor country like Canada. It has been started in England, and is going on successfully. The farmers there are receiving, I believe, one pound per ton for their roots, delivered at the factory. and have the option of loading back with the pulp from the roots at 12s. per ton ; this most of them do, as it is excellent cattle feed.

I have ventured to make these remarks in the hope that some of your correspondents, more able to handle the subject. might take it up. WILLIAM KING. it up. Port Robinson, Feb. 20, 1872.

-The following may be of interest to) parties in Ontario who propose emigra ing to Manitoba: The secretary of the Unite I States Treasury has decided that an emigrant from the Eastern Provinces of Canada may pass with his team, vehicle, and household effects through the Northwestern States to Manito'a without payment of duty on giving his personal transportation bond, properly secured, on any route or in any minner he chooses. Circulars to collectors at ports of entry, giving full instructions, are in course of preparation, and will be issued in a few days.



BALSAMS.



VALUE OF ASHES.

41

It is a too common practice even with go'd farmers to let the wood ashes made during the winter season either go to waste, or seil it for a mere tifle to the s-ap-maker, who souds round his team to callet them. Their value as a manure to apply to grass crops or fint trees is scarcely known. Usuany they are sold for from five to ten cents per bushel, for soap-making; when their real value for manural purposes, if kept stored away in a cry place til they can be applied to the land, a not less than forty cents for bushel. To the frait grower they are worth even more It the asses are us d for susp-making, and the potash contained in them thus extracted, they are then of little manurial value, though still well worth the trouble f spreading on the soil, for the sake of the meet an ical effect produced, which is to make hard cisy more friable, and light sand more compact. Mixed with Plaster of Paris at rate of a bushel of ashes to fifty pounds of plaster, the manufal value of the combined materiais to pasturage or meadows intende . for hay is fully double that of the plaster alone. In fact, we consider the addition of unleached ashes-especially if made from hard-wood-to the plaster, greatly increas sits manufil ac ion, oy as is ing decom-position, a.d, as it wire, makes three values out of two. In the compost heap for garden use, or the manuring of fauit trees, unleached ashes play an unportent part, both in assisting to d compose the vegetable matter that goes to mik up a large porti n of such compost, and in giving what ad plant-need, and w thout it cannot thrive, viz., potast. For truit tries, especially when they are set in g as and it is not the gut ue induc to break up the set about the rost, there should be a god coat of ashes, spread hait an i ch then over the surface of the gound arou a them; but not pied up about the trucks as we have often een. T at is concent a ing too much just when it is not needed on can be of attle matend value. Od o chards are particular y nencfi ed by a libera surface dressing of un-I ach d ashes, which, m addit on to acting is a m nuce to the ties a so d s roys a great many of those los contenties that arbor in L e -ull.

Unlas es are of litt) volue in f ce should

not e apples to the stim sey way. If the farmes would but fully un erstand the value of good un eached word as les, and ake the frouble to go rou d concerning them in the towns and cities, they would find it much ess cost y and more va mable than many of the m-called art fi ial forti iz rs they too often how away their time and money upon.

NEW COUNCIL OF AGRICULTURE AND ARTS. -District No. 1-Arc ibaid McNab, Lochiel. No. 2-Hou. J. Skead Ottawa. No. 3-Aud. No. 2-Hoa, J. Skead Ottawa. No. 3-And. Wilson, Mattand. No. 4 livine Diamond, Ameliasburg. No. 5-Nathan Choate, Port Hope. No. 6-George Griham, Branopton. No. 7-George Murton, Guelph. No. 8-J. C. Rykert, M.P.P., St. Catharines. No. 9-Hon. David Corisile, Paris. No. 10-Robert Gibbons, Paris. No. 11-L. E. Scipley Fal-kirk. No. 12-Stephen Write, Charing Cross.



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BEET SUGAR.

SIR,-In discussing or planning the opera-tions of the farm, we have to consider not only the best and every means to raise a crop, but also does it pay us for our time, labor and outlay, if we do succeed in raising it. Now, sir, with regard to the grain cr ps of this country, wheat naturally stands first, and it finds a pretty ready sale at a fair paying price. As to the spring grains, barley, cats and peas, we have, in reality no market for them in Canada to any extent; our hot summers are not well adapted to raising them, and they are seldom worth above one cent per lb. I think most farmers will agree in pronouncing this a very poor business. Some will probably say, Grow more roots. Weil, these have to be converted into beef and matter, which being about five containers. mutton, which bring about five cents per lb. Not nuch money to be made in that line !-Now, there is a root crop for which I think our hot summers are well suited—I mean the sugar beet. The Hon. J. Skead, in his ad-dress at Kingston, says :- "In many parts of the continent of Europe, beet sugar has nearly if not quite driven cane sugar out of the market." Why should it not be so in this country? If some enterprising men with capital would start a few sugar factories in the country, offering farmers a fair price per ton for the roots, we should soon have a new industry opened up which would be of im-mense benefit alike to producers, manufac-turers and consumers. Sugar is an article of every-day use in every family in the Dom:nion. every-day use in every family in the bolt months of a matrix industry, and if it could be produced by native industry, and only a portion of the millions of dollars annually sent out of the country to purchase it of the foreigner diverted into the hands of our farmers and home manufacturers, it would be a saving most important to a new and to put a three cent stamp on each one. It

DAHLIAS.

To the Ludies.

We often commend articles and subjects to the attention of the gentlemen, and in some things we guarantee them satisfaction. We know the ladies are all fond of flowers, but few of you are aware what a beautiful, interesting and instructive book Mr. Vick's Illustrated Catalogue and Floral Guide is. We would advise every lady that can afford 20 cents to procure one; you cannot help being pleased and satisfied, as the illustrations are charming, and the instructions most complete. His price is only ten cents, but the duty, postage and carriage makes them higher here. We will send them post paid for 20 cents. They are of no profit to us; the actual cost of the book is about 40 cents, and if sold at the general rate it could not be had for less than \$2; in fact you cannot get such a handsomely illustrated work at any bookstore for any money. It is worth five times its price to any mother that wishes to have refinement, neatness, beauty and adornment impressed on the minds of her family. Send for one; we do not write this to make one cent from the book, as we have

is for your benefit, and if any one should have confidence enough in our remarks to entrust us with 20 cents, and should not be more than amply satisfied on the first glance at the book, we will return the money by the next mail if it is asked for.

The engravings on this page are from his Catalogue, which contains over 100 illustrations of different flowers.

We have some beautiful Double and Camelia Balsams, and some very handsome Dahlias; we will send a Dahlia bulb or a package of choicest Double Balsams as a present to every lady subscriber whose name is now on our list, or to any whose names may be added to the list during this month. The bulbs will be sent as soon as the weather will permit.

These bean tiful pictures that we give as prizes for club lists, are such as will astonish every person who precures one. They are only \$1.25, sent to your post office. or one will be sent for five new subscribers. There is a very handsome pair which we will give for nine subscribers, one picture representing a beautiful bonquet of lillies, and the other a basket of flowers. They are 19 24 inches each,

PROFITS OF POULTRY. - In well kept pou'tryyards the het returns of eggs and chickens will average about \$2 to each hen. With turk ys the profit will very from \$3 to \$5 to each hen. This seems to be the usual average, as determined by various reports of actual ex-periments. In a communication to a Farmers' Club, a grower at Hammonton, N. J., gives the results of vis poultry farm for 1871: "I have twenty-nine hens, which have laid 4 364 eers: and if my arithmetic is eight 4 364 eggs ; and, if my arithmetic is right, they averaged 150 and a fraction over. I raised sixty chickens, worth \$30. The eggs averaged i wenty-four cents per dozen, making \$87.28 for eggs. A d \$30 for chickens, and you have \$117.28. Of the cost of keeping I am not so sure, as the count has not been kept so exact; but about \$55. The hens are a mixture of several breeds, but none pure. The While Leghorn and Braham predominate. The feed has been coin and wheat screenings, with some hog-cheese and wheat middlings, pounded oyster-shells, etc."

THE SUNFLOWER.—The Dutch, who live only by diking and dra ming their low lands, pronounce sunflower culture a specific for inermittent fever, the scourge of H lland .-They assert that the disease has disappeared irom every district where the experiment has been tried.

A schoolmaster in Ohio advertises that he will keep a Sunday-school, twice a week, Tuesdays and Saturdays,

The Field.

FOREST AND AGRICULTURE.

42

Lands cannot be spoiled. It is said of some cultivators that they spoil their land. In this there is some truth but more exaggeration. No fool can so abuse an acre but that a wise farmer can make it better than it had been ever before. He may damage soils for a time; may lower their annual value, but he cannot long hinder their natural recuperation; nor, unless he should live longer than the patriunless he should live longer than the path-archs, can be prevent wiser men having the charge of them. If he attempt more than a mere temporary deterioration of the soil, the great physical laws of the Creator oppose him, and will prevail. It is no more within human power to thwart the operation of those laws, wich premise an increased productiveness of wich promise an increased productiveness o the earth proportioned to the increasing wants of mankind, than it is to nullify the Divine promise, that "seed time and harvest shall not cease while the earth remains."

If men could in any way diminish the pro-ductive power of the soil, or prevent its in-crease to the extent of supplying food and clothing to the increasing populations for long periods to come, it would be by destroying the toreste. This they could do for a time by the forests. This they could do for a time, by the combined force of axes and fires; but soon, within a generation or two at most, the forests would grow up again in spi'e of them. The first effect of stripping a territory of its forests would be to diminish its agricultural capabilities; a secondary effect would be to lessen the number and enfeeble the energies of its population; a third consequence would be that, in spite of a reduced and degraded people, either forests or prairie grass and weeds would spring up, as the country might be suited to the one or the other; and the soil would, ere long, have regained all its former agricultural capability, in accordance with a great recuperative law, stamped by the Creator on all his works; but not till after great loss, suffering, and degradation had followed the wrong-doing.

In order to obtain the best results from agricultural labor, any country must be from one-quarter to one-half (averaging about onethird) in forest,—more in a dry climate, less in a climate naturally damp. In England, where the atmosphere is always moist and the sun dim with clouds or fog, ene-quarter is enough. In New England, where the air is dry and the sun scorching, and where much of the land is worth more for growing timber than anything else, one-half is not too much.

Forests, to the extent above indicated, exert important influences on climate. Multitudin-ous facts pertaining to the Old World, to-gether with fewer but not less important facts already gathered from the New, go to establish beyond a doubt the following truths. The facts we have neither the time nor the space to detail, but this may be done hereafter, if our conclusions are called in question.

property, in addition to losses just before suf-fered by a lack of rain. The moral of all we have said may be indi-

cated as follows:

If we would leave to posterity a green and fruitful country; if we would enjoy, and be willing that our children after us should enjoy, a climate characterized generally by rain-falls frequent, gentle, refreshing, such as agriculture delights in, seldom dangerous, terrific, or devastating, and if we would have on our farms sufficient timber lands 'to supply ourselves and our non farming neighbors with fuel, lumber, and fencing material, let us preserve our forests to the extent above intimated; or, if we have already destroyed them, let us begin to restore them at once. But if we prefer the brown and barren to the green and fruitful; if we desire fewer gentle rain falls, and more freshets, interspacing long drouths, damaging to crops by their excess when they come, as well as destructive to property and perilous to life; if we think that timber enough to meet all the wants of country and village life, will be a curse and not a blessing to posterity; if we really sigh for long, un-broken courses of wind to sweep over our dualling and apprentice wear round; and if we dwellings and crops the year round; and if we sincerely believe that our winter grains will come out better in spring for having the snow blown from them, than if left where it fell for their protection, then down with the forests. "Woodsman, don't spare a single tree."-Phrenological Journal.

TIMELY TOPICS.

But little real field work can be done by farm ers in this latitude in winter, but considerable planning may be p-rformed which will have great influence ultimately on the profits of the field crops. At this time of the year the farm accounts should be balanced if not done already that is if now have kept any and we believe -that is, if you have kept any, and we believe accounts are an important adjunct to good and progressive farming. If you made an inventory last New Year's of your farm stock, tools, seeds, and other loose capital required for your busi-ness, and then kept an account with each ness, and then kept an account with each animal and crop, you can now tell to a copper what your profits have been in the year's busi-ness. Perhaps you will find that a great deal of money has been made on the farm, and but lit-tle remains in your pocket after all bills are paid. You almost wonder where it has all gone, and without a system of accounts you really and without a system of accounts you really cannot tell. An inspection of these will show where labor and capital have been expended with profit and without; it will indicate what crops and methods of culture make the best returns, and will give you a clue to the course of farming you should follow. No farmer will improve his farm so rapidly and well and swell improve his fail so taphiny and wer and swell his bank account, or diminish his indebtedness, so fast as the one who, by a correct system of accounts, is master at the end of each year of the situation. Some snug farmers have a way of keeping the figures in their heads, and can always refer to them mentally, but this is not to be recommended for the complex operations of most farms. Planning farm operations should be done early. The question of rotation of crops is timely. Ask some farmers what they will do with a risk some namers what they will do with a field next spring and they don't know—can't tell till spring comes, and then they will be guided by the prospect of this or that product. This is poor cultivation. It a farmer has the faculty of guessing correctly on such points, he Had better quit farming and turn speculator. He can make millions where he will make thou sands by telling the soil. The best way, we think, is to grow the staple crops which pro-mise to yield best on your soil, and which fit best in a good rotation. Aim to produce a large crop rather than a high-priced one. Who can tell whether this or that price will be high ean tell whether this or that price will be high or low? If you have a large quantity to sell or to feed it will pay any way, We should not forget at this season to plan how to grow large crops. Perhaps a few hundred rods of tile drains in a field that you are going to take up from grass and till for three or four years would double the yield of each crop, and also leave it in better condition for grass when re-seeded. If so, what better investment of capital could you make? The winter is the time to buy and draw the tile, make contracts for the labor, etc. Your seeds and fertilizers, like plaster or guano, should be bought and drawn to the farm, and put in condition for use, in the lei-sure time of winter. Perhaps there are some lines of fences rather dilapidated, and which may be dispensed with without inconvenience, and these may be removed if there is not too much snow. Stone can be handled as easily on a sleigh as on a wag gon, and drawn easier over the snow than soft ground in the spring.

and-bye, and we shall find our farming will grow etter in its absence.

The wood lot is getting to be valuable in pro-portion to the amount of timber it contains portion to the amount of timber it contains suitable for manufacturing purposes. Cord wood does not, and never will, bring the price it has. Coal is the fire king. Tough hickory, ash, oak, whitewood, basswood and chesnut are yearly growing more costly, and these and other useful kinds should be grown. Every farm should have a timber lot, and its growth should be made profitable. Judicious trimming and gleaning will render it more valuable. Some varieties might be planted and would soon be-come thrifty. What better investment could a farmer make for the future, than the starting of a few acres of choice timber- chesnut, locust, of a few acres of choice timber - chesnut, locust white wood, or black walnut? If the old wood lot is worthless for timber, and the soil and face of the land good, clean it off. but don't neglect or the land good, clean it off, but don't hegiedt starting another. It is not to be doubted now that timber growing is profitable. What would hve acres of chesnut timber of forty years' growth be worth? What will it be worth forty vears from now? You who plant it may not live to reap the profit, but your capital may be as wisely invested in planting and tilling it for your children as though it were in bonds or inortgages.

Stock.

TREATMENT OF BREEDING SOWS.

The time for early pigs is very near at hand, and the question of the treatment of breeding sows one which should now receive attention, with the view of getting them in the best possible condition for farrowing. The course of feeding should be sufficiently generous to keep the animals in good condition, but still not calculated to encourage the laying on of fat, or, what is of equal importance, create the least disturbance of the digestive organs, to which many sows when approaching the farrowing season are very prone. If the sow is in two strong flesh at the time of farrowing, she is clumsy in her movements, and extremely apt, in consequence, to trample or lie upom some of her young, and besides is liable to numerous difficulties which may prove more or less serious in their consequences, the very least of which is frequently sufficient to in-duce a morbid and morose condition which prompts her to deliberately destroy her young. If, too, the sow has been for a long time too fat, the pigs are liable to be weaker than they otherwise would be; and while it may be true that they become as vigorous and thrifty as they would had the condition of their dam been different, they are at the moment of birth relatively weaker, and subject to contingencies from which more active pigs would entirely escape. Her course of feeding, too, should be of a character to induce a moderate degree of laxativeness. Con-stipation is greatly to be deplored, and will be guarded against by all careful breeders who are expecting a valuable litter of pigs. If the bowels cannot be kept open by changing the diet of the sow, which can generally be done without difficulty, some gentle laxative should be given, especially when it is appar-ent the time of farrowing is quite near at hand, or resort had to injections. . Her food, too, for the last few days immediately preeding, should be cooling in its nature. During the whole time of pregnancy, she should have had abundant exercise, and a week or so before farrowing should be assigned to her pen, fed there, and confined there at night, in order to become so perfectly familiar with her surroundings, as to feel no uneasiness on that account when the pigs come. She should be provided with a reasonable amount of litter for a bed, but not too much, or she will make the bed so deep that the young pigs are liable to get injured between the mother and the sides of the bed. Long straw is objectionable, because pigs are liable to get under it, when their movements will be so impeded as to prevent their getting.out of the way, and avoiding being laid upon. If long straw is provided, however, it should be placed in the pen several days beforehand, in order to be broken up. Straw cut short, or a good bed of leaves, are the best. It is a good plan to put a fender around the inside of the pen, some inches above the floor, and from each wall, as it prevents the sow in lying down from crushing the pigs between herself and the sides of the pen. A neglect of this pre-caution has resulted in the loss of many a fine pig. When farrowing, no idle curiosity should tempt the owner to go near her. Leave her alone. It is very rare indeed that either the sow or the pigs require any assistance, and any intrusion is likely to do dam-

The situation of the pen should be favorable, and it is essential that it be dry and warm.

After farrowing, the sow will not for some days require much food, and such food, therefore, as is provided, should be light, and, above all, not heating in its tendency. Milk, slops, scalded middlings, and bran are very good Particular care must be taken that the bowels of the sow, and also the pigs, are kept in pro-per condition, as it is frequently the case that the mother must be treated for constipation, and the pig for scours or diarrhœa. The latter, if it occurs, is generally the result of some improper constituent in the diet of the mother. and may generally be controlled by changing it; and a moderate quantity of oil cake will generally serve to overcome her tendency to constipation. After the lapse of ten days or se, the food of the sow may be made some-what heavier, a little meal being safely put what heavier, a little meal being safely put into the slops, and a little grain thrown to her occasionally, and in a short time she can be worked back upon common fare. But while she is suckling the pigs, she should be fed gen-erously, and the pigs should be taught as early as possible to eat slops and other food, in order to lessen their demands upon the mother.

SULPHUR FOR ANIMALS .--- I have used sulphur for horse, cattle and swine for over 22 years. It is only when I neglect to give it to my animals for a number of months that they are ever troubled with vermin. When I have occasion to purchase animals, and find some of them infested with lice, 1 soon rid them of them in this way; give them a small table-spo nful of sulphur every other day for a week. and at the same time take very dry wood ashes and dust them all over once; after this (if the vermin has all disappeared) I give them what they need in course fine salt two months in spring and two months in the fall; for a quart of salt add about 2 table-spoonsfuls of sulphur Cattle having free access to this preparation not only will not be troubled with vermin, but will be less liable to be troubled with skin disease .- Josiah Clark, in Country Gentleman.

The Apiary.

WEIGHT OF BEES .- The American Bee Journal gives the following estimates of the weight of bees according to various writers:

Dumas and Milne Edwards give 86.00 millegrammes as the weight of a worker, being about 4000 to the pound, but this is evidently an error.

Schmidt & Kleine say that 5376 workers weigh a pound, but do not appear to have made any experiments themselves accepting Beaumur's statement. Berlepsch states that 177 found dead on the alighting board of a hive weighed half an ounce. This would give 5664 to the pound. The usual estimate is, that of workers net gorged with honey or laden with pollen, 5,300 will weigh a pound; and this may be regarded as a fair average. Bees, when prepared to swarm, usually fill themselves with honey, and hence, when weighing a swarm, especially if accompanied by many drones, a proper allowance must be made in estimating the number of workers emigrating.

The

POOR POTATOR the people who e them cutting like much more agrees according to a lad not in the tubers, she never has any her table, and thi preparation: If remain in cold v time to cook 1 pu water " salt as bi sufficiently, I tur kettle on fire till Prepared this wa and wholesome. pared, nor need Wash them thor rough places cut boiing salted w pour the water o

only steaks and A capital dish "chuch," as the when well prepa large as the dem wash it well to from the outsid feetly clean; sal lay it in the bo boil it from th thoroughly ten sprinkle of sag If the meat is fa half hour befor when your mea side in the grav other side. little flour thic have a dredgegravy and brow and you will h mind, superior boarding-house turn it and equ in having it t Farmer. A FRENCH

pan with a sm the range or s

a good tender spider very ho

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-Housewives

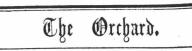
Of two countries similarly situated and equal in all respects, except that one is well wooded, forests being preserved on each farm adequate to a plentitul supply of fuel, building timber, and fencing material, for the farms and the adjacent villages, the forests and oultivated lands interspacing each other rather uniformly; while the other has been deprived of nearly all its forests and has no new ones growing to replace them; the first has a very different prospect ahead from the second. The latter cannot, for long years to come, maintain as dense a population; it will fail to grow as much farm, garden, and orchard produce; its farmers will be less thriving, less energetic, less successful; its people will be less intelli-gent, less refined and less contented-will be moving off westward, or in some other direc-tion. This is strong language, but the history of forest destruction and its effects proves it true. On this point, if not on all others, history repeats itself.

In a country once denuded of its forests, the temperature disobeys the laws which regulate it in a well-wooded country. The people are surprised with spring when it ought to be winter, and with winter when their seed waits to be put into the ground.

In a well-wooded country, storms are more frequent and less violent than in a woodless region. In some the rains are so frequent, gentle, and refreshing, that the farmer, if he cultivate his land to a reasonable depth, has little occasion to dread the destruction of crops by drouth. In the other, excessive rains often by drouth. In the other, excessive rains often and ground in the spring, should be taken up if follow killing drouths, producing freshets and thereby destroying much public and private obliged to have less fencing in this country bye-

Fences running north and south, which cause heavy snow banks to the detriment of the crops

age.



THINNING OF FRUIT .- The Journal of Agriculture says a medium-sized fruit, or even one of smaller size, may be more economical for use, but until some decided change in the preferences of the majority of purchasers shall take place, large fruit will sell better than small. To produce this, the fruit must not only have good cultivation, but must be thinned, and we agree with Mr. Meehan that "one-half the trees which bear fruit every year would be benefitted by having one-half the fruit taken off as soon as it is well set, and that the overbearing of a tree will in a few years destroy it." We lay it down as a certain rule that excessive production is always at the expense of both quantity and quality, if not in the same season then in succeeding ones, for when branch is contending with branch, leaf with leaf, and fruit with fruit, for its supply of light and food, it would be indeed an anomaly in nature if this should not result in perrmanent injury to the tree as well as to the annual crop.

of butter, or turn it over, o the butter as the saucepan steak on to oven to keep shake more pan, set again butter bubb smooth with ful of boiling soon as thic hot. WASHING

Slack lime escape of s through a s lime add one of water. To every fi degrees, thr and four qu may be add or whitewas as paint, an will stop si moss from combustible When app brick utter long as pair -Boston

> PUMPKI TISM.—At Farmer's virtues of stance of i tism: A we mous size was made newed eve time prod

ould be favort be dry and

not for some ch food, thereght, and above Milk, slops, are very good. that the bowels e kept in pro-y the case that or constipation, ncea. The latresult of some t of the mother. ed by changing of oil cake will er tendency to of ten days or be made someeing safely put in thrown to her ime she can be re. But while ould be fed gene taught as early her food, in oron the mother.

-I have used wine for over 22 ect to give it to onths that they . When I have and find some of oon rid them of a small tabler day for a week, very dry wood once; after this ared) I give them salt two months n the fall; for a ble-spoonsfuls of ccess to this pree troubled with e to be troubled lark, in Country

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at 5376 workers appear to have omselves, merelj ent.

The Bousehold.

POOR POTATOES MADE PALATABLE.-Halt the people who eat potatoes to-day will find them cutting like a piece of hard soap, and not much more agreeable to the taste. The fault, according to a lady writer in the Household, is not in the tubers, but in the cook. She says not in the tugers, but in the cook. She says she never has any but dry, mealy potatoes on her table, and this is her modus operandi of preparation: If old, I pare them and let them remain in cold water several hours. When time to cook I put them in a kettle of boiling water " salt as being. When they are boiled water " salt as brine. When they are boiled sufficiently, I turn off the water and set the kettle on fire till the steam has all dried out. Prepared this way. old potates are delicious and wholesome. New potatoes need not be pared, nor need they remain in cold water. Wash them thorcughly, and if there are any rough places cut them off. I place them in boiling salted water, and when done always pour the water off and place them over the fire.

-Housewives who are in the habit of using only steaks and roasts make a great mistake. A capital dish may be made out of the "chuch," as the butchers call it, or the neck, when well prepared. Select a piece of meat as large as the demand of your table may require; wash it well to remove all the blood or soil from the outside; have your dinner-pot perfeetly clean; salt and pepper the meat well; lay it in the bottom and cover it with water; boil it from two to three hours, or till it is thoroughly tender; add half an onion, a sprinkle of sage, thyme, or summer-savery. If the meat is fat, let the water all stew out a half hour before it is put on the table. and when your meat is browned well on the lower side in the gravy, turn it over and brown the other side. When ready, take it up, add a little flour thickening to the gravy, or if you have a dredge-box shake the flour into the het gravy and brown it, then add boiling water, and you will have a dish equal and, to our mind, superior to the common roast beef upon boarding-house tables. Care must be used to turn it and equally necessary is good judgment in having it thoroughly well cooked.--Ohio Farmer.

A FRENCH BROIL -- Select a spider or sauce-

pan with a smooth, elean bottom, set it over the range or stove till really het, then lay on

a good tenderloin or sirloin steak; keep the spider very hot, and turn the steak as often as

every two minutes-no longer; when half done

sprinkle over salt and pepper to suit the taste

of these who are to eat it: continue to turn the

steak often, till sufficiently done, just as you are ready to take up and dish the steak, dust

a little flour over it, spread on a tablespsonful

offensive as they were taken off. I know a man cured of inflammation of the bowels by the same kind of application.

out by the poultice made them extremely

A CURE FOR SMALL-POX. correspondent of the Stockton (Cal. A Herald gives the following as a cure for small-pox, and as that loathsome disease is performing

its horrible work in our city, we give place to the article, which may be of benefit to suffer-I herewith append a receipt which has been used to my knowledge in hundreds of cases. It will prevent or cure the small-pox, even though the pittings are filling. When Jenner dis-covered the cow-pox in England the world of science hurled an avalanche of fame on his head; but when the most scientific school of medicine in the world, that of Paris, published this receipt as a panacea for small-pox, it passed unheeded; it is as unfailing as fate, and conquers in every instance. It is harmless when taken by a well person. It will also cure scarlet fever. Here is the receipt as I have used it and cured many children of the scarlet fever; here it is as I have used it to cure the small-pox, when learned physicians said

the patient must die: "Sulphate of zinc, one grain; fox glove, (digitalis), one grain; half a tea-spoonful of sugar; mix with two table-spoonfuls of water.

When the above has been thoroughly mixed, add four ounces of water. Take a spoonful every hour. Either disease will disappear in twelve hours. For a child, smaller doses, according to age. If counties would compel physicians to use this, there would be no need of pest-houses. If you value advice and experience, use this for that terrible and dreaded scourge.

Vetermary.

SHOEING HORSES.

I is almost impossible to get a horse shod without having the frogs cut away. All veter-inary surgeons, all horsemen, all leading blacksmiths agree that the frogs should not be pared one particle-not even trimmed. No

matter how soft and pliable the frog is, cut it away smooth on all sides, and in two days it will be dry and hard as a clip. You might as well cut off all the leaves of trees and expect them to flourish as to pare away the frog and have a healthy foct. The rough spongy part of the frog is to the foot what leaves are to the tree-the lungs. Never have a red-hot shoe put upon the foot to burn it level Employ a blacksmith that is mechanic enough to level the foot without red-hot iron. The burning process deadens the hoof

Dairy Department.

A CONVENIENT MILK RACK.-Place a piece of scantling perpendicularly in any convenient, airy place in your cellar, or milk room. Then commence a foot or two from the bottom of the post and nail on pieces of common lath, about two feet eight inches long, at right angles with the post, and exactly opposite each other, so that the ends will reach out far other, so that the ends will reach out fait enough each way to receive a pan of milk. The strips may be five or six inches apart, on alternate sides of the posts, and carried up about six feet high. Forty gallons of milk in six quart pans may be placed on such a rack, and no pan in the way of any other pan.

MILKING IN SILENCE .- The London (Eng.) Milk Journal says: Cows that are fed at milking time require their usual meal, or milking time require their usual meal, or they may become restless or dissatisfied, and put a stop to their bounty. Many of them will only allow some special favorite to mik them. In those parts of the country where women are solely employed to milk, we fre-quently find one or two tuneful lassies singing at their work, and many cows become so pleasat their work, and many cows become so pleas-ed with the rustic harmony as to show evident signs of their approval of the loud sweet voice by giving their milk only by being sung to. Everything that distracts the attention of the cow and ruffles her placidity should be avoided when called upon to yield her milk. Her nervous system should not be excited by attance nervous unwelcome objects, or rough strange noises, unwelcome objects, or rough treatment, or the effect will be apparent in a diminished supply in the milk pail. It would attimisted supply in the milk pair. It would no doubt be good advice on the whole to tell those who milk taht they should keep their tongues and keep their tempers. The Con-necticut farmer appears to have sufficient rea-sons indeed to say that speech is silver, but silence is golden.

Miscellancous.

LADY FARMERS. Agitation does good, as thunder-storms clear the air. One good from all this fuss about woman's rights is to show women that they can earn their bread in other ways than by the needle or by teaching school. Many have turned their attention to gardening and farming in a small way with excellent suc Many more have, I dare say, tried and failed but usually from a want of resolution and perseverance in the face of difficulties. A lady in Hartford earned by a day's work enough to buy a half acre of land. On this she has set out and cultivates with her own hands, twenty apple trees, sixteen cherry trees, eleven pear trees, over a hundred grape vines, besides a and tends to contract it. If you do not think variety of small fruit, as strawberries, currants, raspberries, &c. That this lady has h ing in refinement of feeling by her out-door work, we might judge from a note sent by her to an editor, accompanying a gift of beautiful fruit. She mentions the great enjoyments she has felt in her work, and says: fruits and flowers, like angel voices, have cheered me on. In their presence I have cultivated alove for the beautiful in all things, and have been happier in loftier, holier thoughts, with clearer views of the brighter world above. I would recommend to all ladies that they give time and attention to horticulture; it improves both mind and body." Who will say that such a life is not better Who will say that such a life is not better than drudging over her needle for a bare pittance, wearing out soul and body both in the struggle to keep off famine? A young lady in Mississippi, who had just graduated, came home and hired a few colored people, and undertook the experiment of woman farming. The result at the end of the year farming. The result at the end of the year were -eight banks [1] of potatoes, six hundred bushels of corn, and \$969 in cash, from the sale of cotton, after all expenses were paid.--

When a slip has grown six or eight inches high, nip out the top down to the next set of leaves; it will then throw out branches on each side. Let these grow eight or ten inches, then nip out the top of each branch, when grown the ame height as the others i then procure a stick the size of your finger, eighteen inches in length ; take hoop skirt wire, twine back and forth alternate, through holes made in the stick equal distances apart; place this firmly in the pot back of the plant, tie branches to it, and you will have, when in flower, a beautiful and very graceful plant. Having one trained in that way last season, it was the admiration of all who saw it,—Small Fruit Recorder.

TO TRAIN & FUSCHIA

43

BRIEF. Here is a brief synopsis of a con-stitution for a Farmers' Club. It contains all the points which are essential in such a document:

1. Name of Club. 2. The Club shall meet once a fartnight, at the heuse of member previously agreed upon. S. A subject of discussion, and a appealer to open the debate, are appointed for each meet-

ing. 4. The member at whose house the Club last met is presiding over the meeting. 5. Secretary, to serve for six months, is elected. He is expected to furnish the pro-ceedings of the Club to the country newspaper. 6. Members nay propose candidates for membership, who are elected by a majority of the votes cast.

7. All other matters are left to be managed at option of the Club " for the time being."

GRASSHOPPERS IN MAINE.-The Maine Farmer, in review of the past season, says : -" The year 1871 will be forever remembered by the farmers of Maine as the 'grasshopper year.' No such ravages by insects were ever before known in our state ; no one insect was ever so numierous; none ever appeared in such vast numbers, or caused so much destruction to crops. The reports of their ravages are often almost incredible, and the crops in entire districts, towns and even counties were completely devoured. Generally throughout the state they caused more injury to grain, grass, corn, potatoes and garden vegetables than drought, frost, rot and all other adverse causes combined.

We have previously commended the sowing of Larkspur as a poison for grasshoppers. It may be well to have some of it about gardens and plots of land. Our turn may come next. We have suffered considerably from these depredations, and it is a question yet to be decided to what extent and what expense we should put ourselves for preventative measures.- ED.

A WOMAN FARMER .- The Royal Agricu

found dead on the weighed half an 64 to the pound. at of workers not with pollen, 5,300 may be regarded when prepared to elves with honey, swarm, especially drones, a proper in estimating the ng.

hot.

bard.

-The Journal of ium-sized fruit, or ze, may be more until some decided of the majority of , large fruit will sell oduce this, the fruit ultivation, but must with Mr. Meehan hich bear fruit every by having one-half as it is well set, and a tree will in a few ay it down as a cerroduction is always uantity and quality, then in succeeding is contending with d fruit with fruit, for d, it would be indeed his should not result the tree as well as to of butter, or if a large steak, a little more; turn it over, dust on more flour, and spread on the butter as on the first side; turn again, set the saucepan back from the hot fire, take the steak on to the platter, and set in heater or oven to keep hot, but not to cook any more; shake more flour into the butter in the saucepan, set again over the fire and as soon as the butter bubbles up through the flour, rub it smooth with a spoon, and pour in a few spoonsful of boiling water, stir it constantly, and as soon as thick pour over the steak and serve

WASHING FOR ROOFS AND BUILDINGS.-Slack lime in a close box to prevent the escape of steam, and when slacked pass it through a sieve. To every six quarts of this lime add one quart of rock salt and one gallon of water. After this, boil and skim clean. To every five gallons of this, add, by slow degrees, three-quarters of a pound of potash and four quarts of fine sand. Coloring matter may be added if desired. Apply with a paint or whitewash brush. This wash looks as well as paint, and is almost as durable as slate. It will step small leaks in a roof, prevent the moss from growing over it, and render it in-combustible from sparks falling upon it. When applied to brickwork it renders the brick utterly impervious to rain; it endures as long as paint, and the expense is a mere trifle. -Boston Journal of Chemistry.

PUMPKINS FOR INFLAMMATORY RHEUMA-TISM.—At a recent meeting of the New York Farmer's Club, a correspondent wrote of the virtues of pumpkin, giving the following in-stance of its value for inflammatory rheumatism: A woman's arm was swelled to an enerwas made of stewed pumpkins which was re-newed every fifteen minutes, and in a short time produced a perfect cure. The fever drawn

so, try the red-hot poker on your finger nail, and see how it will affect the growth of that. There are many other important points in shoeing horses, but these two are of more importance than all the rest, level to the apprehension of men not skilled in horses, and the two most disregarded.

GALLED SHOULDERS ON HORSES .-- Wash them well every night and morning with a strong solution of oak bark, made by boiling the bark in water; then rub them well with linseed cil. Annoint them every night and morning with a salve made of three parts of morning with a saive made of three parts of linseed oil and one part quicklime. To make horses' shoulders tough, wash the shoulders well twice a day for a week before working with oak bark solution.

TO TRAIN A HORSE TO STAND .--- The American Stock Journal contains the follow-ing directions: "Take your horse on the barn floor and throw a strap over his back and fas-ten it to his fore foot; lead him along and say whoa; at the same time pull down the strap, whoa; at the same time pull down the strap, which throws him on three feet and makes him stop suddenly. This is the best way to teach whoa, though you can put on the war i i lle and say whoa, giving a sharp jerk that will stop him about as soon as the strap to his foot. Then put h m in harness with a foot-strap, as directed under the head of "training Country Gentleman. strap, as directed under the head of "training to harness," and drive him up to the door. The moment he undertakes to start take his foot up and say whoa. Get in your carriage and get out again, rattle the thills, make all the noise in and out you can and give him to understand by snatching his foot each time he moves, that he must stand until you tell

FARMING WELL .- The great difficulty in the way of good farming is too much land; far-mers are so hurried in the getting in and in the harvesting of their crops, that they have really no time to devote to the improvement of the soil. Let any one visit some of the ten-acre farms in the neighborhood of Cincinnati, and the truth will soon become apparent, that more profit can be made from ten acres, prop-erly tilled and manured, than can be realized from one hundred acres run over in the usual negligent manner. The occupants of these ten-acre farms are growing richer every year, while many who occupy large farms barely hold their own.—Ohio Valley Farmer,

a woman FARMER. The royal agricul-tural Society of England having placed £50 at the disposal of judges, to be awarded to the two most highly commended farms, they awarded £25 to Mr. Brewster, for the successful management of good land. Mrs. Eliza-beth Stankley's farm was highly commended and awarded a prize of $\pounds 25$ in recognition of her profitable management. Here we see that a woman comes to us with the key to success in rural pursuits-profitable management.

GODERICH STAR .- We are pleased to see this deserving journal resume its presence. About three months since it passed through a fiery ordeal which destroyed all its working materials. In its present enlarged form and its new type, there can be no doubt of its be-ing received with an appreciative support, not only in its immediate vicinity, but throughout the Dominion at large.

A CUBIOUS PHENOMENON occurred on the Ottawa river between the city and Hull en Saturday evening. As some parties were crossing on the ice they were startled by a loud explosion, which shook the whole mass on which they were travelling. Upon looking for the cause they saw a shower of ice, water, sawdust and slabs falling over a space of open water about an acre in extent, from which the ice had been blown by submarine forces, thought to have been compressed air or gasses.

A crowd of disorderly women, who were being tried before a Salt Lake City police court, recently, took it into their heads to de-molish the witnesses and clean out the police-men, in all of which they were successful,

NEW SEEDS FOR 1872.

44

WE have now received our NEW IMPORTA-TIONS of

GARDEN & FIELD SEEDS,

and shall be glad to receive a continuance of that patronage with which we have hitherto been favored. Our Seeds are all selected from the best varieties. and from well-known houses in the trade. In fact, we take every possible care to obtain the very best articles. We offer, among other varieties, the fol-lowing :----

CABBAGE-Large Drumhead, Early and Large York, Flat and Red Dutch, Savoy, Winning-

Stadt. &c.
 CABROT-Early Horn, Long Orange, Altringham, Intermediate. White Belgian. &c.
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Jelly. &c. CLOVER & TIMOTHY, Tares, Flax Seed, Hunarian Hrass. Ac

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POULTRY.

EGGS FOR HATCHING.

HAVING spared neither pains nor expense in poorting really choice Fowls from Erony cand the United States. I will new dispose of a few settings on Eags of the concest varie ies, all of which I . uarabler | ule. J. PLIMMER, Jun.

Lenden, Feb., 1872.

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In good barrels, containing 200 lbs. each, and in bags containing 50 lbs. each.

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AGRICULTURAL IMPLEMENT

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All orders addressed will secure prompt attention. Agents wanted. London, Feb., 1872. 3-3

WANT: D. within five miles of Incersol. FIFTY ACBES of G OD LAND; g od buildings and constant supply of water - Apply at this office, 3-1

FOR SALE.

DURHAM BULL, AGED TWO YEARS. Dark red, duly revistered in Canadian Herd Boak Almo (WO DURHAM COWS and ONE BULL CALF. Appir to J. IRWIN, Lot 7, con 2, Dorchester; London P.O. 3-3

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100 BUSIELS of EMPORIUM OATS, of ex-()() BUSLELS OF EMPORIUM OATS, of ex-cellent quality. weighing 47 lbs. to the measured bushel and warranted free from noxious weeds. Good factilities for shipping. Price \$1 per bushel. Wanstead P.O. 3-2 D. S. ROBERTSON.

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H. E. IRVING, Hamilton, Breeder of South down Sheep and Berkshire Pigs. 72-1-72-1-3

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J. FEATHERSTONE. Credit. breeder of Essex. Suffolk, and Yorkshire Pigs, and Cotswold Sheep.

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J. MAIN, Boyne, importer and breeder of Cots-wold sheep and Suffork Swine. 12

UEORGE MILLER, Importer and Breeder of Short Horn Cattle, Cotswold & Leicester Sheep, and Berkshire Swine, Ma.kham P. O. 12 JAMES LAWRIE. Maivern P. O., breeder Ayrshire Cattle, Ch desdale Horses, Berkshire Pigs, and Licester : heep 11-iy

GEORGE G. MANN, Bowmanville, Importer and preeder of thorough-bred Devon Cattle 11-1y. JOHN SCOTT. Coldtsream, Breeder of Leices

ter heep an Short Horn cattle. 11-19 THOS IRVINE, togans Farm. Montrea Breeder of syrshire Cattle, Ciyaesdale Horses Yor, shire and Berkshire 1 igs and Leicester Sheep 11-15

BRODIE, SON & CONVERSE, Beilville, Biesa eis of Yorkshire Figs and Ayisnire Cattle. 11-11 11-13 W. HOOD, Guelph, Breeder of Galloway Cattle.

H. H. SPENCER. Breader and Imposter of Deron Cattle, Clyuesdate Ho ses. Southawn and Hampshiredown Sheep, and Brikshie Pi.s. Bro kin P. O., acar Whitby Ontario. 11-19

J. MILLER, Thistle- 'ha," Brougham P. O.

Breeder of short-Horns, Cotswold Sucep, improved Berkshire Pigs and Clydesdale Houses. 11-19.

R. LEAN, Coldsprings, Breeder of Leicester Sheep and Berkshire Pigs. 11-19

Montreal, Feb. 26, 1872. Flour: no change to note in demand or values; small sales of the several grades for

Montreal Markets,

local use at unc. anged rates. local use at unc anged rates. Wheat: buyers more disposed to await further advices, and in the meantime have lowered their purchases.

Nothing doing in Peas.

Provisions quiet, with sales at \$5.25 to \$5.40 fr light to medium averages.

New York Markets.

middling uplands. Flour dull, and without deci id change;

quotations unchanged.

bushels; sales 15,000 bushels; \$1.54 a \$1.55 for No. 2 spring in store; \$1.59 a \$1.61 for No. 1 spring in store; \$1.66 a \$1.70 for winter red western; \$1.72 a \$1.75 for amber western; \$1.73 a \$1.80 for white western. Rye is quiet and nominal; 92c a 93c for west.

ern. Corn is a shade firmer to-day; receipts 56,-000 bushels; sales 46 000 bushels, at 70; c a 71c

for new western mixed aflos . Barley is quiet and unchanged; receipts 7.000 bushels; sales 0.000 bushels.

Oats are reported quiet; receipts 4,000 bushels; sales 19.000 bushels, at 512c a 532c for western n store and afloat; 54c a 555 for white Ohio.

Pork is dull, at \$14.05 a \$14.10 for new mess; \$13.37 a \$13.37 for old.

9%c for kettle rendered

Cheese 11c a 17c for new state ar d western. 221c.

Burlington.

Leaving the East and arri ing at Chicago or Indianapo is how s all we reach the West? The est Line is acknowledged to be the C. B. & Q., joined together with the B. & M. Railroad by the Iron Bridge at Barlington, and called the

ha, conne ts with the great Pacific roads, and torms to day the leading route to California. Fne Middle Branch, entering Nebraska at Plattsmouth, passes tarough Lincoln, the state Capital, and will this year be finished to Fort Kearney, forming the shortest rout, across the

Continent by over 1(10 mil. 8. A: o.her branch of the B. M. diverging at R d Oak, fals into a li e tunn ng down the i souri through St. Joe and Kausas City, and all Kan as. I assengers by this route to Kan-sas see Linnois, Southe n Iowa, and Missouri,

als

THE DO

Will take ou

N.B.-HUB

WH

drawing any stur

\$70. The largest

and heavier. - Ap Agricultural Em

Ashes quiet, at former rates.

New York, Feb. 26.-Cotton is 22% for

receipts 5,000 barrels; sales 7,000 barrels;

Rye Flour steady.

Lard is unchang. d, at 9ge a 'ge for steam;

Butter at 11c a 37c for comm.n to prime.

Petroleum: crude 12% a 12%; r fined 22c

Burlington Route. The main line of the Route running to Oma-

and, by a slight divergence, can see Netraska





em mber the Bur-"high-g eaming 5 tr ams-its rough oceans stretching eve can reach. remember it, for two thousand who B. & M R. R. at he four thousand ors who l st year land office, where h to give us all a

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ressing Couth and r till lately p anted ould do not delay.

be too late ! your hope; it has as you, who have ir gratitude, have suffering humanity nd believe. Don't untried mixtures, try at once this infound in any drug stores, It is wartroublesome Cough long standing. It satisfaction in all ifficulties.

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Short, light, strong, durable, ring, easily and steadily, does its work most efficiently; it has Steel Feat and Steel Werder for attachment; also, the teeth can all be easily removed and the Drill Plough inserted in the frame. It will pay every good farmer to have one. Price of Cultivator only \$14, complete with Mold Board; \$12 with Teeth and Weeder, without the Mold Board. Terms cash down.

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Richmond Street. near Crystal Paluce, 10 61 Nov. 25th, 1871.

FOR SALE – Duri am Cow, red. 7 years old, \$120. T Durham Cow, Roan, \$120. Durham yearling Heifer, toan, 3100. Durham Bull, 2 years old, \$130. Ayrshito Bull, 4 years old \$40. Apply to ARCHIBALD STEWART, Lobo. 12

DRAIN TILES: DRAIN TILES:

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Sizes from two to six inches. Apply to T. Mc-TAVINH. L bo, Vaneck P.O. Seven usiles from Komoka Station. 72-1-3 Komoka Station.

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Intending insurers will note— lst – That this is the only Fire Mutual in Canada that has shown its ability to comply with the law of the Dominion. and dep sit a portion of its surplus funds for the secu ity of its members.—>25.000 hav-ing been so deposited. 2nd—That being purely mutual. all the assets and profits belong solely to the memoers, and accumu-iate for their sole benefit. and are not paid away in the shape of dividends to shareholders as in the case of proprietary companies. 3rd—That nothing more hazardous than farm pro-

Side of proprietary companies. 3rd — That nothing more hazardous than farm pro-perty and isolated dwelling houses are insured by this Company, and that it has no B, anch for the in-surance of more dan zerous property, nor has it any connection with any other company what over. ith-That all honest losses are settled and paid

to without any unnecessary doiny. Sub-That any unnecessary doiny. Sub-The rates of this Company are as low as those of any well established Company, and lower than those of a great many.

6th-That nearly four hundred thousand dollars nare been distributed by this Company in satisfac-tion of heses to the farmers of Canada during the art ten years

7th-That the "Agricultural" has never made a second call on their members for payments on their pr mium notes.

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BERAKFAST.—EPPS'S COCOA —GEATFFUL AND COMPORTING.—" By a thereigh knowledge of the natural laws which govern the operations of diges-tion and nutrition, and by a careful apdication of the fine properties of well-selected cocoa, Mr. Epps has provided our breakfast tables with a delicately flavored beverage which may save us many heavy doctors' bills."—Civil Service Gazette. Made simply with Boiling Water or milk. Kach packet is labelled.—"James Epps & Co, Homeopathic Chem-ists," London." Also, makers of Epps's Milky Cocoa (Cocoa and Condensed Milk.) 72-1-y

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Also, some Heifers and Bull Calves. JOHN B. TAYLOR. Apply to

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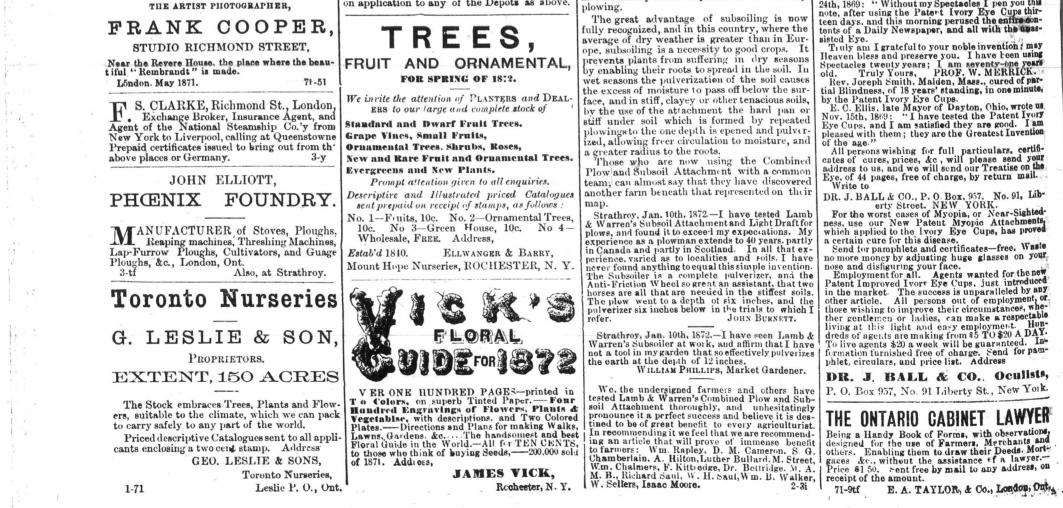
SHORT HORN BULL FOR SALE.

PRINCE ARTHUR. 2 years old, registered Pedigree. Apply to THOMAS HARRISON, Lot. No. 3, 5th Con. London Township, 6 miles from the city.

D. REGAN,

OUCCESSOR to John McPherson & Co. Manufacturer, Wholesale and Retail Deale in Boots and Shoes, Farmer's Block, opposit Strong's Hotel, Dundas Street, London, Ont. April 1, 1870. 4-y-cu

THE ARTIST PHOTOGRAPHER.





The Nutritious Condiment is the only Condiment used in the stables of Her Majesty the Queen,

COAX

Certificate from J. Taylor, E.q., M. R. C. V. S., London, Inspector of the Royal Stables. Since ordering the N. B. C. Food Company's Condiment to be used in the Royal Stables and

Condiment to be used in the Royal Stables and Model Farms we have had no ailments amongst our Cattle. I consider it to be the best Condi-ment offered to the public, and the only one worthy of their attention. June 4, 1870. J. TAYLOR, M.R.C. V.S., London. From Mr. A. W. Alloway, Veterinary Surgeon, Cote St., Montreal, Dec. 15, 1871: You can use my name as testifying to the genuineness and utility of the Nutritious Con-diment for horses and cattle. A.W. ALLOWAY. From Messrs. Bancroft & Sharpe, Great St. James St.: The information contained in the North British Cattle Food Co.'s Circulars res-North British Cattle Food Co.'s Circulars res-pecting their Condiment is true to the letter. We have it and are satisfied. For horses that We have it and are satisfied. For horses that have been stall-fed for several seasons it is in-valuable; after using it a week or so, they are as fresh as if they had been out at grass all spring. Independent of the saving it effects in other feed, we should continue to use it. Bancroft & Sharpe, City Express and Livery Stables. Montreal, Dec, 18, 1871. From Mr D T Irish, Agent of the National Express Co and Canadian Express Co Mon-

Express Co and Canadian Express Co, Mon-treal: The North British Cattle Food Com-

Express Co and Canadian Express Co, indi-treal: The North British Cattle Food Com-pany's Condiment is being used in our stables, and the men inform me the horses relish it, and are much improved under the new regimen.
D T Irish, Express Agent.
7 and 9 Place D'Armes. Dec 18, 1871.
This celebrated Cattle Food is composed of health-giving seeds, herbs and roots, grown for their fattening properties and health-giving qualities. By using it a saving of 20 per cent.
is affected on the cost of feeding, and the ani-mals are in better condition. It is not only the best but the cheapest Cattle Food in existence, being at the rate of one cent per feed. All the principal prize cattle at the Royal Agricultural shows held in the Agricultural Hall, Islington, London, at Xmas of 68, 69, 70 and 71, were fed on the Nutritious Condiment at the London Ex-hibition of 1862 for genuineness and utility.

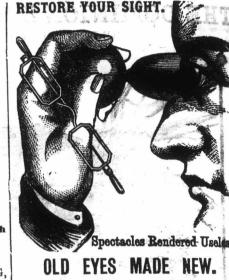
hibition of 1862 for genuineness and utility. Manufactured by the North British Cattle food Compady, at Glasgow and London. Depots, in Canada:-Montreal, 451 Commissioner's St; Toronto, 6 Palace St; Ottawa, Little Sussex St; The North British Cattle Food Co.'s Manager in Canada, GERALD GORDON. Lowest wholesale and retail rates forwarded

on application to any of the Depots as above.



Plowing, its Object and How to Accomplish it.—New and Valuable Invention.—A 2-Horse Subsofter.

THE REAL OBJECT OF PLOWING. it is well kn wn, is not to turn over an mmense quantity of soil without disintegration, but rather to change the relative position of the particles. It is a fact well known to every practical and intelligent farmer that Plowing practical and intelligent farmer that Plowing rom 5 to 8 inches in depth, year after year, has the effect of closing the pores of the earth, and forms a hard pan under the surface, on which the water either stands in pools until evapora-tion takes place, or runs off into creeks without filtering into the ground, and thus afford nour-ishment to the roots of growing plants in the heat of summer. Barrenness of soil and ex-haustion of the grain bearing qualities of land are the result of this system of light Plowing. To obviate this difficulty of light Plowing- to get a proper depth of pulverization without To obviate this difficulty of light Plowing – to get a proper depth of pulverization without entailing the expense of purchasing and work-ing the heavy subsoiling Plows, we have intro-duced what we call our COMBINED PLOW ANID SUBSOIL ATTACHMENT. This can be used on a common Plow, and is com-posed of an anti-friction wheel placed between the land side and mould board of the Plow, and a Subsoiler formed of two coulters, set into an iron frame immediately in rear of the wheel, and talling from 6 to 8 inches below the bottom and talling from 6 to 8 inches below the bottom of the furrow. The wheel is placed about three-quarters of an inch below the land side of the Plow, and by resting on the furrow les-gens the draft on an ordinary Plow about 200 pounds, as has been proved by actual experi-ment. By this means it makes up for the re ment. By this means it makes up for the re-sistance of the subsoiler, so that the whole is no heavier in draught than an ordinary Plow. The Cultivator teeth which form the subsoiler are placed about the width of the furrow apart, and by so tearing up the earth under the furrow that it is completely pulverized. One grand advantage in these attachments is that they can oe used with a common Plow, while by their use a common Plow is made a subsoiler, and yet can be drawn by an ordinary team without more difficulty than is experienced in ordinary



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sight. Any one can use the Ivory Eye Cups without the ail of Doctor or Medicine, so as to re-ceive immediate beneficial results and never wear spectacles : or, if using now, to lay them saide forever. We guarantee a cure in every case where the directions are followed, or we will refund the money.

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professional and business men and women of education and refinement, in our country, may be seen at our office. Under date of March 29, Hon. Horace Greeley, of the New York Tribune, writes: "J. Ball, of our city is a conscientious and responsible man, who is incapable of intentional deception or imposition." Prof. W. Merriek, of Lexington, Ky., wrote April 24th, 1869: "Without my Spectacles I pen you this note, after using the Patert I wory Eye Cups thir-tent of a Daily Newspace, and all with the unse-

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F. A. GARDNER, WILLSON, Sec.-T Supt.

THE CARDNER PA

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In design, the m Singer; but the pr is entirely different as nearly noiseless Sewing Machine.

The UPPER tens discs between which tached by a stud to is flat and placed o its upper end secur ed by a thumbscre

The SHUTTLE I the shuttle-cam of nated as a "ball prongs of a fork w the shuttle-arm. steel, and securely which in a basket along the face of radial movement the best movemen the centrifugal for firm to the face of

The FEED deriv cam" placed on th ing transmitted t feed lever under is made of steel length, thereby p ment. To the en a screw, which so to the feed that I heavy goods. T to the bed ; it is T

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GARDN

The TREADLE



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are not likely to get out of repair. The whole of the works are enclosed in the arm, which is

any kind, and that all the motions are derived from the same shaft,—all the usual complicated shuttle and feed movements being avoided.

"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

the treadle, besides taking up the wear of 10088 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 contre; 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 ver running easy. yet running easy.

latest and most improved attachments, com-prising the following, which are furnished without extra charge:-

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5tfu London, May 1, 1870.



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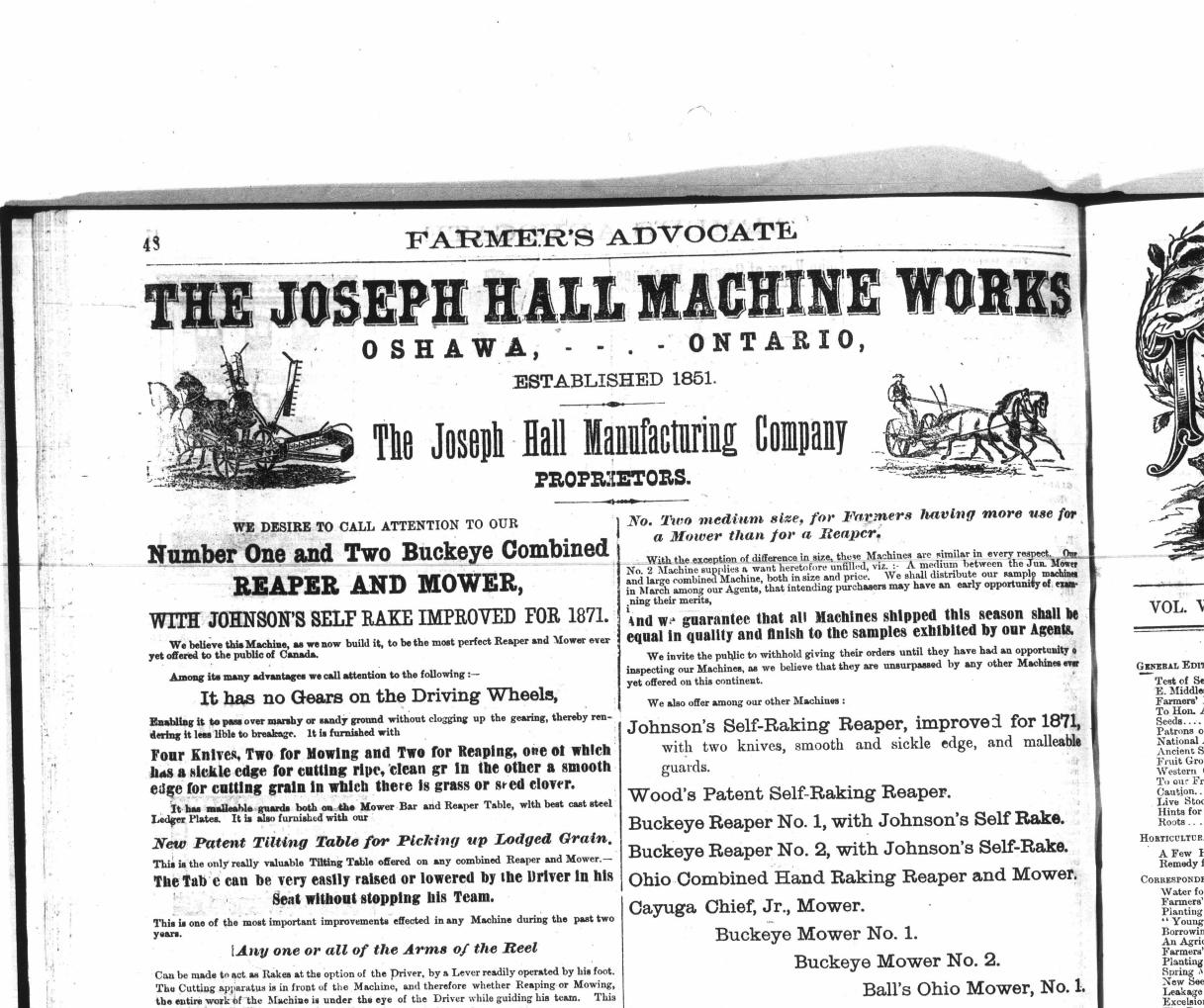


Table is so constructed as to

Gather the Grain into a Bundle before it leaves the Table, and deposit it in a more compact form than any other Reel Rake.

The Table is attached to the Machine both in front and rear of the Driving Wheel, which enables it to pass over rough ground with much greater ease and less injury to the Table. The Grain Wheel Axis is on a line with the axle of the Drive Wheel, which enables it to turn the corners readily.

The Rakes are driven by Gearing instead of Chains, and therefore have a steady uniform motion,

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There is no side Draught in either reaping or mowing, and the Machine is so perfectly balanced that there is no pressure on the horses' necks either when reaping or mowing. All our malleable castings, where they are subject to much strain, have been

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Is so constructed as to raise the cam so far aboves the Grain Table that the Gran dies not interfere with the machi. ery of the Rakes r Reels.

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NEW CLOVER THRESHER AND HULLER,

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