

## November on the Farm.

We have enjoyed our Hallowe'en and may now expect. winter weather any day. We may, it is
true, have yet some weeks of pleasant weather, and there is no more pleasant, invigorating season than our Canadian fall, very few seasons excepted, and, in the country especially, we enjoy it the more that we know not how short it may be. The Indian summer sometimes remains with us till the month is over, but sometimes November comes in
with chilling breath, the ground is soon bound by With chilling breath, the ground is soon bound by and then it is winter fairly
This uncertainty of what
bring us makes it all the more neecessary for us not to lose an hour in making eyery preparation for the winter. Leave nothing undone that may be done, and when the winter shall have come we can with the greater ease do the work that even in the depth winter must be done on the farm.
The potato crop is safely stored ere this. This year, more than others, there has been early maturity, and early ripening makes the way for early ever, other root crops to be cared for, and, we be lieve the acreage under such crops is every yea increasing. The unceasing cutting down of the old forests makes the country colder by depriving it of the natural protections against the winds, and, consequently, cattle require a better supply of winter food than formerly; besides, our access to
better markets for our meat and dairy produce better markets for our meat and dairy produce must stimul
husbandry. husbandry.
All roots should be secured with as little delay as possible. We need not now expect them to
make a greater growth and a few days make the saving them more laborions and expen sive, but may also cause a serious loss in the crops. Let us see to it that our turnips, mangolds, carrots and beets are so stored as to be safe from the winter, and at the samé time within easy reach for feeding our cattle. We see in some parts of the country there is a greater variety in the root crops of the farm. We have learned not to depend on one variety. There might be a failure of the turnip crops, from drouth at the time of sowing, or from attacks of the Hly, and we then find the advantage of having a plot of mangolds; so it is a variety of root crops for feeding.
A good root-house is most convenient for storing roots. It should, to save the lalor of much car-
riage, be near the stable aud lyre to be fed late in the season may be sately stored in pits, and if carefully taken from the ground and carefully stored they will keep well till late in the season. There is no way in which they will keel
fresher and retain their nutritive properties better fresher and retain their nutritive properties better than in the pit.
Carrots are
Carrots are very valuable for winter feel for horses. They serve to keep them in good healtl and condition. They have been largely fol to to
horses in England, and there is no other count in which the horse is so well cared for.
also fed turnips and beets to horses, we have small quantities and at intervals--merely enough to prevent costiveness when long confinel to the stable and to dry food.
In pitting or storing turnips care must be tike that ventilation issecured, otherwisc their heat whien heirped together might cause decomposition. Venti lation is as necessary for the preservation of roots
as it is for animal life. They must not be kept as it is for animal life. They must not be kept stored in too high a temperature- thee
just about the freezing point, no higher just about the freezing point, no highe Mhis month, at furthest, all cattle should be
housed. If the weather be cold aud wot the should be housed even earlien. The cold rains of
an early winter, or even of an unfavorable fall, wash away the flesh " they had gained. There ot ge farmer than to let his cattle stand out bleak, wet nights exposed to the cold. The would be better in the house or shed even if with out food. It is easy to keep up the condition is equally ryplicable to restore it if lost. This young stock and store cattle. If neglected they be a source of loss instead of profit. If kept wind and comfortable they will continue if kept wari appearance, health and flesh
Fattening hogs should be finished for market as early as possible. They thrive better before the old weather sets in, and every additional day food is additional cost incurred. When housel early, and in good condition, they are finished for the market at comparatively little expense of food. Horses should be well fed and groomed. A good span of horses well cared for will do as much work
as two spans of wretched, hungry animals, and in as two spans of wretched, hungry animals, and in good horse is a good friend.
Keep the plow going till prevented by frost Plowing at this season will expedite the spring work; and ground such as can be profitally plowe of frost. We have proved this by the experienc of years,
One more hint. The collecting and saving of manure is a very important part of the November work on the farm. Let nothing be lost that can
be converted into manure. Now that the cattle are housed everything that will absorb the liquid manure may be malle a valuable addition to the manure heap.

## The Potato Crop of $18 \% 6$.

Never was the uncertainty of the yield from the 1876 and the preceding year-the former a creas of abundant produce and consequent low prices the latter a season of crops so light as by some to be called a failure. In 1875 potatoes were sold in these markets at 20e. to 25 c. per bushel, andl so was throughout the Dominion. In the Maritine Provinces they were bought at as low prices, and large quantities of them made into starch. Fron New England we hat simmlar reports. This year, in the cry seasos wen potates are chcapest, the ritime Provinces they are bought at 50 . In the $M$ and shipped in large quantities to New Englan A correspondent of the Ohio Farmer says:-" won't have two hundred bushels of potatoes from five acres. From the same field last year I dus eight hundred bushels," He alds:-"Aceorling to my estimate, an acre of potatoes camnot be cul.
tivated for less than twenty dolars, which is about what my theld will produce this year, leavin othing for use of the land.
The question naturally arises, Is such a loss una buard against the receurrectecof syy which we can We camot, we know, by any unch 1osing ressults: control the weather-and to the drought or leat mility of the weather much of the poverty of the crop nust be attributalle ; but is it not within our pawer to guard against the injurions efficets of an anfavouraille condition of the weather. That this
cin loe, at least, partially effected, we have litt lonlt, and the more clearly we see that there is ach a possibility, the more likely will we be to in Were this failure wholly enwive measures. he season, there would lo le little dite the nature of the returns in the same or similar localities. But his has not been the case. Somine a fevies. But
have good potato crops, while their neighbours potatoes have scarcely been worth the labour. This difference of produce must be attributed to other causes-to the quality and nature of the soll, its planted. Any soil may be so treated as to produc a pretty good crop of potatoes in favourable seasons but a farmer need not be told there are soils naturally adapted for its culture. Rotation of crops is the writer mentioned above this course was not $f$ the writ
lowed.
That light potato crop of ' 76 seems to have may in part account for its being almost a failure Some crops are better adapted to take their place in a rotation after other crops of a different mole of and those of the best red our heaviest potato crops the previous year been nuder grass, peas, or corn As to the variety of potatoes, the best crops we hav known this season have been of early sorts, as the the unfare. They took had loss grond early growth; their maturing and ripening was not forcei as it was of later sorts, A slow-growing late maturing potato is not the most suitable for our short seasons.
Were every farmer to make inquiries such as are here suggested, and to communicate the result of his inquiries to an agricultural paper, he would be loing good service to himself and other cultivator of the soil.

## Beet Culture.

bonus of seventy thousand dollars per
num from the quebec legislature.
The present annual production of beet sugar in France, Belgium, and other coun ies, is $1,050,000$ believe the anc procucing soo,00 tons. We drawback ondor lieve, to encourage an industry that is cot is, we undeveloped; for no sound economist would tax th entire nation for the benefit of a class. However, it proves the importance to the agriculturist and the nation generally which the French Goveriment enand of its manufacture. We belicve at the last session of the Quebec Local Legislature $\$ 7,000$ an nually, for ten years, were voter to enfourage the estabhishment of a Beet Sugar Refinery. We ar the cultivation of thas grant has operatec to extend there is a demand for it. It would seem, theref that a refinery must precele leeet cultivation, many will enter on an enterprise while the material for manufacturing it is wanting. For the present the farmer has no market if he would raise the sugarbeet, and the refiner has no root to manufacture No coult) does exist of the suitability of the soil of this Province for raising roots. The local Agricul tural Shows and Provincial Fairs have produce tiful cricence of the fertility of the land, and plenretinery must sume we be we imagine the sugar-beet before its production becolure The above article on a very important sulject wo abriago from our Eastern Township contemporary, the Sherbrook Nexs. Wie would suggest to cultivators and manufacturers that both branches of the unlertaking proceed simultaneously, so that while the beets are growing for the sugar-maker, the maWere the establiter and put into working orta by a company, they could, on land bought or rented or the purpose, grow hects to give partial employ ment for the first year's operation, as has been don

Nova Scotia. This, we believe, was the course pur sued in France at the commencement of this bee tant a source of national wealth.
Former numbers of the Farmer's Advocate bear testimony to our efforts to have trial made in Ca nada of the growth of the beet and its manufacture into sugar. To be successful and prosperous as a farming community, a diversity in our farm products is necessary. Of this the result of each year's farming supplies an additional proof. Not only does the wheat crop leave the farmer little profit after paying expenses, but the growing of grain crops to this part of the Dominion, robs the soil of its prothis part of the Dominion, robs the soil of its prothe certain impoverishment of the owner.
the certain impoverishment of the owner.
It is not a judicious policy to be purchasing from other countries that which we can profitably produce from our own soil.

Hints to Dairymen-NO. Written for the Farmer's Advocate, by J. Seabury. The cheese market and trade has ruled very quiet for the past month, with somewhat of a reaction. Factorymen who had refused 12 c . to $12 \frac{1}{\mathrm{c}} \mathrm{c}$. are now anxious sellers at these figures, or even rices will check consumption squite as much as prices will check consumption quite as mhen is now
the make is short. With the cable, which is 58 shillings, the relative value here would be 114 . Butter has suffered quite a reaction and a decline of 20 shillings in Liverpool the past few days which will have a very depressing effect on the
trade here. The deliveries have been light for the past few weeks, and we are of the opinion that there is a good deal of fall butter in the hands of the farmers, which will keep the local trade quiet, so that we need not look for much, if any, improve ment over present prices before the spring,
The writer being in Wingham a few weeks ago, and having a few hours at my disposal, I resolved to drive across the Teeswater and see the butter fen miles across a comparatively new country brings you to the village of Teeswater. The country i well suited for dairying, being well watered, rooling and somewhat stoney. They are making up the miilk of some two hundred cows, and are making a first-class article of butter. They appear to be well satisfied with the enterprise, so much so that the owner informed me that he would have no trouble in getting the milk of five huncred cows next sea son. There are several of the mother year on a similar plan being talked of for another year I was very me building is one story, about $30 \times 50$, one-half of which is used as a churning room and for working and packing the butter The other half is the milk room, in which the milk is set and skimmed. This room is some three or four feet below the surface of the ground, and the milk pans for setting and cooling the milk ar ranged on each side of the room. These pans are made to hold about twenty-five runtred of milk, and the milk is set about ten inches deep in them Another thing, in the manuacture that chese there is no more trouble with it. I feel confident that the day is not very far distant when butter factories will be scattere all through the country just as cheese factories are now. If the butter now exported from the country was made up in this way it would adt to its valu from 4 c . to $\overline{0}$. per pound for the finest, and 10 c for medium and ordinary sorts. Let any one figure for himself the gain that this would be to thi country. There is no doubalize more than enough
over the general average price paid for butter to pay for the manufacturing, besides making it a would be relieved of all their labor and trouble in making and marketing. Every package would be the same color from top to bottom, and a dealer in buying a line of this butter could depend upon its uniformity in quality as well as color. There is nothing in the world to prevent Canadian butter from being sold in Eng'and for the same price as the best Irish, Danish or Kiel butter, which are now quoted at about 25 to 30 shillings above Canathe difference between these brands of butter and our medium or ordinary and there is quite 50 shillings difference.
I feel confident that in ten years time we will see the bulk of the butter made in the country for export will be made on the associated plan, as sideration of the dairy public and the cheese factory men, for in my opimion they should be worked together whenever practicable
I have no doubt that a good many who have been in the dairy business for the past few years, and a host of those who have jumped into it simply because they thought they could make more money and make it easier than in any other way, are now seriously considering the question, shall we go on something else? To all such and to any other who have already hastily decided on selling off their cows I would say, give this matter your full consideration and look at it in all its bearings. Our that "there was a great and glorious future in store for dairymen in Ontario," and I have no hesitation in saying there is still a great future for the dairy men of Ontario. Compare the dairy business nine years ago with what it is to-day. It is simply wonderful, and yet whoever lives to
nine years will see as great a change.
It is an old and true saying, "A rolling stone tathers no moss," and the farmer who is rolling about from one thing to another will not be likely to gather much "moss." This is one of the evils of American farmers, they are too ready to jump into any other kind of farming other than the kind they are engaged in. If they are stock-raising and wool and mutton happens to be high they are quit isgusted with stock-raising and rush into shee y the time they are fairly in the sheep busine and mutton are low, and they vow that the shee usiness is a very poor and unprofitable one. They re now realy to try anything else that looks the most promising, and as cheese and butter have been high and they hear wonderful accounts of the profits from those who are in the business, they resolve to try that, never for a moment considering whether their farms are well alapted to the busiless. Probably after trying it for two or thr yins they are nowsing else. What can farmers who treng course expect to make? I have bserved that these farmers are the ones who make up that class who are never satisfied with anything. The crops are poor, prices are low, and there is nothing going right to suit them. This style of farming is nothing more or less than a sort of spect lation, and a farmer has no business to speculate unless he has plenty of money. Every farmen should stuay what hery farms in Ontario or, althong he male suitable and alapted to the lairy business. Arid I question if there is any ther branch of farming that promises better and taking one year with another.

In my opinion we have seen the worst this seaby the time you get out and well into something else, that something else will be very likely to be low and the dairy products high. Instead of giving it up try and make your cows give you a return of 500 tts . of cheese for the season instead of 300 . Make it your aim and study to increase the pro ducts of your farm and dairy. These things can not be accomplished without careful study and forethought. Now that the long winter evening are upon us let them be improved and made use of Get some good work on the dairy business, and wo agricultural paper.
Although there is great room for improvement in the manufacture of cheese, still the cheese maker is pretty well master of his business, even so far as to be able to make a very fair article from inferior milk. But how many of the dairyme throughout the country are keeping pace with th times and making themselves masters of their business?
The fact is becoming more patent every year that ir the standard of Canadian butter and cheese or be raised the great bulk of the dairymen wil nust be made fully alive to the fact that to make dairying a success they have a very important part to play in the programme, and that they must do their part well and thoroughly. To begin with, they must have the best cows, and the right kind too; but they must not be satisfied with that, they hould keep aiming to make their herd still better. These cows must be well and properly fed, and with the right kind of food for making milk, and supplied with the best of pure water. The stables And last, but not the least, the milk vessels must be kept well and thoroughly cleaned and sweet, and the milk handled and cooled with the greatest possible care. If dairymen could only be led to see and feel the importance of all these things as a body it would be one of the most important steps towards making the dairy business a great success. Let each dairyman make up his mind to make the business a credit to himself and his neighborhood, and also induce his neighions ample. Let him make with prile and satisfaction. If the patrons of every cheese factory would form themselves into a dairy club, meeting once a week or once a fortnight during the winter months, they would find themselves greatfy benefited. At the conclusion of each meeting let the members settle upon the subject for disclussion at the next, and also upon some one of the members to open the subject by reading a paper of his own composition on it. Aleart in by having a good chairman, part in the debould keep each speaker confined to the subject, these debates would be very instructive. They would give the young men of the neighborhood a fine opportunity to improve themselves, and would be much more beneficial to them selves and the community than those senseless de bating schools which are sometimes held through out the country. There is so much to be learned, studied and said about dairying and farming in all its departments that cew pushing and thorough young men would take hold of this matter in their neighborhood they could make it both instructive and entertaining to themselves and their friends.
The dairy department at the Centennial is a very poor representation of the dairy utensils and pro ducts of the country. There are plenty of factorie in Ontario in which the every-day display of chees is much finer. There has been very bad taste diso
played in the arrangement of what few cheese there are there. I was very much struck with the very meagre display made by the United States, both in cheese and dairy apparatus, and everything seems to be left to take care of itself. What few dairy apparatus there are exhibited are of the most ordinary kind ; some of our Ontario manufacturers turn out much better made and finished work every day. This department does not reflect much writer went round three different times to see the Canadian cheese but could not get in either time the door being locked. This department is visited by thousands every day, and the one-half' of them have no idea what these things are for, and there is no one to explain them.

## The Western Fair

This Exhibition, held in this city differs very little from the Provincial in extent of the display made by exhibitors, in fact, this Exhi bition is always a good one ; in some classes it sur passes the Provincial. The prizes offered by th Provincial, at whatever point it is held, will draw exhibitors, but stockmen and manufacturers agricultural implements prof exitita here, as no locality has such a fine agricultural country around it.
tanding this the were many animals exhibited that were owned the States. At the Provincial we only heard of on American animal from the United States being ex hibited. This Exhibition has always been a strong rival to the Provincial, and its independence of Gov ernment patronage shows what can be done. Th farmers in this locality do not consider there is any necssify dent an think "then padale their ow dent,
We shall not weary you with a long descriptio or prize list, as we devoted much space last mont to the Provincial prize list, \&c. Some of the anithe Provincial Exhibition were only awarde second and third prizes at this Exhibition. We not presume to say that the judges at the Wester Fair are better than those engaged at the lrovin cial. The majority have undoubtedly acted hono ably and to the best of their abiity; all such do exhibitors sonetimes have been awadel houn that should have been awarded to the products hibited. We do not intend to inply that the judg ing at this fair has not been quite as good as any we ever attended; but if a judgo has been reasonably suspected by any Board, or the public, of acting partially, he ought not to be selecte again, however goot his address may be, or ho ever moch he may push himself into notice

## The Central or Guelph Exhibition.

The display of stock, machinery, and other pro ductions, at this Exhibition, were nearly equal to
the display made in London; in some departmen they were not as good, in others may have excelled the vegetable and root departments wo thought even superior to either of the other Exhibitons, The exhibition of the Government stock was part of the show that could not be at any other fed beyond breeding limits. If they are superio to the cattle now owned in the country it must consist in their pedigrees. The poled Aberdeen attle had some admirers. We presume Mr. Brow did the best he could with the sum intrusted to
him. One could easily tell they were political catile, by listening to remarks from different parties; other party could find them as redeeming points to e considered.
The Guelph Exhibition of the fine arts is not what we could wish. We hope to see the amateurs in this department encouraged, by having a committee to decide what is and what is not fit "o ex Tom's," that was shown at this Exhibition.
Our attention was attracted to
hink, superior kind of barrel ; it is exhibited by Mr. T. Sharp, of Guelph, and is made of two large sheets of wood cut very thin and nailed together In one piece the grain runs round the barrel, the other lengthwise of the barrel ; they are very light, trong, neat and cheap, and are much easier handle than the common barrel; the wood from which hey are made can be cut round and round the log A fanning-mill was exhibited at this Exhibition is a Canadian invention, and from what we saw of it we consider it far superior to the American fan ing-mill which Yankee sharpers are traveling through the country and selling patent rights of or county or shop rights. Thousands of dollar have been lost by farmers by dabbling in the rights of two Yankee fanning-mills. We feel thankfu that our pages have not aided the imposition.

## Caution-Patent Rights, \&c

There are at the present time many smart, plau ible sharpers travelling through the country sell ing nostrums, shoddy clothing, novel fruits o wonderful seeds and patent fixings of numerous
kinds. Hundreds of such dare not let their name address be known
If there is anything worth having or worth the or mased, it can be procured freguar dealer or manufactoring estaly announced through novelty the hundreds of papers published in Canada, as seneral rule you may expect to be swindled. Hundreds make a living by selling such things as the know are worthless. Such persons should be stopped, as they give a bad name to the real legitimate business of selling such things as are of advan tage. Agents have instructed farmers to use reap ing machines, and many other useful implement have been introduced by them that farmers would not otherwise have hat. Agents are not all to be ll farmers to be shaned becanse his grain from a false sample, or because his wif had two kinds of butter in her basket. The law can follow a dishonest farmer, but a note given by have to be paid if it turns his family out of the have to
farm.
We
We are willing to expose any of these gentry, but the difficulty lying in the way is this, that the greatest losses are sustained by those that toil hard and read but little. Should a reader be swindled, known. Many do ser the loss than let it be they object to give their names; some because do not care how much others are sywindled. The question is how to remedy the evil.

## Spring Wheat.

The question has already been put to us severa mend? The answer is not any wheat can we com some varieties have answered well in some locali ties and proved failures in others. We wish you to help us to form a correct opinion by sending us re-
ports from different parts of the country, particularly of the following varieties, namely : the Red ern, Odessa, Egyptian and the Brooks wheats; so of any other new variety that may be in your ocality.
The Fife wheat is answering well in most localiies to the north, but it is not giving general satisction in this locality. The Red Chaff, although
 River or McCarling wheats armber rowth. In some parts they are lauded, in others condemned. If any variety is doing well in your locality, by all means continue to sow it.
We know many of our readers will kindly aid us in answering the question by giving us information or by writing for the correspondents' department.

## Winter Feeding of Stock

We have had enquiries from farmers in the Eastrn Province as to the best mode of feeding cattle till spring. One writer asks how is it that farmers in Ontario can fatten cattle without loss at the preent price of meat. He says: "Here we could not do it."
Some writers on agricultural subjects assert that there is no immediate profit on winter-fattening stock, and the only profit is from the increased quantity of manure made thereby and its superior quality. This, they say, is considered by English Tarmers sufficient to defray the cost of feeding. hey adduce figures to prove ther assertion, thus lem. An animal is of a given weight when being put into the stall for fattening A certain meing tity of food is consumed in the fattening, and when it for the shambles he has gained in weight so nany pounds or stones. This additional weight arely pays for the food consumed in the fattening and hence it appears there is no profit other than he manure, against which is to be placel in account he labor of feeding.
But there is something to be reckoned more than the price of the additional pounds of neat. Those riters have overlooked, or at least they have no carcass, In our home markets well fattened bee sells readily at 30 to 40 per cent. hisher prices than t would if lean, and the difference in British markets is still higher. This profit we claim is made byattening animals in aldition to that from the nanure, as fairly valued, to be equivalent to the ood and labor.
A milch cow can be brought well through the winter on good hay, without any other food, but the question arises-Will she not do as well or bet ter on hay of inferior quality, with the addition of nots that cost less to the farmer than any other hriving condition throughout the kipt in good, traw, with two feeds of turnins daily Cattle feeders assure us that a good-sized cow will eat 25 to 30 pounds of hay in winter when it is her only food. Straw is sellom treated by farmers as of much account. Roots, such as turnips and man ollds, produce from 600 to 1,000 bushels per acre, the cost of the labor-say $\$ 12$ to $\$ 15$
The fattening Process.-No definite figures can be given for the cost of fattening. The ex perience of feeders varies very much. Some animals are naturally inclined to putting on flesh; they re always in fair conkition, and fatten at little cost to the feeders. Some, on the other hand, are quite of the animals when the fottening process comnences. An animal in fair condition when put up or stall feeding will pay a higher profit for stall
the c
prefer
if that
ing of
settler
settlers
way ex
would
tion and
class of
farmers
by the
country
lines ha
Quebec
were al
within
market
those
civilize
the lab
inhabit
ments
nents
feeding than if put up lean. The same rule holds feeding than if put up lean.
good with high-bred cattle. In this is the greater profit of having pure-bred stock or good grades. Begin to feed the animals on roots early in the season. Let their daily feed of turnips not be large. Accustom them to them by degrees. Atcr
some time their full allowance will be about 50 lbs. per head daily. In finishing for the shambles some additional food will be required if they be intended for a gool market and to bring the highest price. Oil cake, linseed meal and bean moal are fed by English feeders. The time is coming when linseed will be an important product of our Canadian farms. Meantime one or two pounds
meal will be profitably used in finishing the fattenmeal will be

## Railways and Agricultural Progress.

 There has been no little grumbling from time to time on account of the heavy burdens imposed on there are few, if any of the grumblers, who would prefer the work that has been done to be undone, if that were possible, even though the undoing of the werk were to be accompanied with the refunding of the moneys expended. They who were settlers in the country before of canada way existet can form some op means of communication and transit. Their great advantage to every class of the community, and more than others $t$ to farmers, is now again more fully brought before us by the great improvements in the vast tract of country which the Intercolonial Railway and other lines have effected in the Maritime Provinces and Quebec. Rich tracts of land that by their isolation were almost worthless, are by the railway brought within a few clays or hours trave of the great markets of the world, and are exchanging for those luxuries that sher of produce that awaited civilizen of the industrious tiller of the soil. The inhabitants of the few sparsely scattered settle ments are enabled to enjoy the society of those hundreds of miles apart, for hundreds of miles are but a few hours' journey by rail. The accessibility to seaports invites colonization, and offers an in ducement for the clearing of the bush-land and growing breadstuffs and feecting cattle on land that haul ever been a wilderness. back woods now deen economy of time and a Ther tion of the expenfusion of greater vigor from the introduction of the steam horse into their country Were proof necessary of the estimation in which the opening up the country by railways is held, that proof is given in the readiness of communities to impose heavy taxes upon themselves for their construction, and their eagerness to secure as nigh to themselves as possible the coveted boon. Every new line, though but a short comnecting branch, in creases the value of land in its vicinity, as affording a more speedy access to wor market for and rightly so. Had we not a ready market our wheat and barkey, oun heef for our own imwould yuplies. A convenient market induces mediate supp and improved agriculture for its supply.The gool work done by the Intercolonial Rail way, and the greater work still doing, supplies us witb another illustration of the benefits that must accrue to a country from such undertakings. onization has received a new impetus; agriculturists see a prospect of remumeration for their labors,
provinces tutally isolated from each other are h, wought within easy access, and united by the rail mate to render Canala by this means commercially
independent of othes countries, by making Halifax her winter port, affording her undes any circumstances a Canadian outlet for her products and a
free mode of communication with Europe. The Intercolonial now carries flour from Toronto to Halifax at 40 cents per barrel, and other commodihies at psoportionate rates, so that Ontario farmers can conveniently supply the markets that had been
hitherto supplied almost entirely from the United hitherto
States.

The Centennial Exhibition. This Exhibition, which is now drawing to a close result in after years, owing to the opening of trade the friendly intercourse established, and the spread of knowledge, which have all been attended to. We have in a previous number advised all to go that could afford the journey. We have never seen one who has regretted the expense; all are pleased and enlightened that have been there. No one can give but a very faint idea of its magnificence and utility, even after having been there
Thelastcheapexcursion that we have heard of wil eave Hamilton on the 4th Nôvember; fare $\$ 9$. ands of private houses at from $\$ 1$ to $\$ 1.50$ per day than can be had at the crowded hotels at twice and thrice those amounts.
We shall publish the list of Canadian honor gained as soon as we receive it complete. We shall in future numbers refer to various things in regar o this Exhibition.
We attempted to procure some spring wheat for trial from some of the northern countries, but a yet none can be had. There will be an opportunity untries for winter whe raisel in other arts have not succeeded well when we have tried hem. We have spoke to the Commissioners re hange.

EXantry filara.
Keeping Poultry.
Keeping Ponitry,
In regard to poultry houses, the windows should
be made in such a way that they can be taken out or opened easily
not weather.
It does not matter how cool a house may be uilt, our summers are too hot for it to be be shut p. While the fowts are roosting teter for their health if they could sleep in trees. I have looked into the coolest of houses on hot nights, and found the birds suffering severely for want of more air.
Another thing requires attention in some locali-ties-that is, protection against thieves. Iron bars can be put on all windows, fastened to the frames, but not to the sashes, so bars still remain usefultire iron from old light wagon wheels will do, and can be had cheap in any conntry blackssinith shop. Ventilation is one of more consequence in keeping fowls than any other domestic animal, when a number are kept together, and why, is the great mystery, farvelous
well-established fact (in spite of the mar
 gether we have in some poultry works a continued length of time in the same place without all the care is
Make openings, with shutters to them, on two opposite sides of the house, quite up to the eeiling, current may pass through without blowing down uoon the stock while roosting, which would be
liahle to give them culd. Of course the perches must not be up too high. On cold nights and very
cold days, close the windward ventilators ; but cold days, close the windward ventilators; but
when it freezes hard in the house, the cold purifies
俍 when it freezes hard in the house, the cold purifies
the air in a degree, and rather than let the fowls
freeze their combs, shat up every opening. From these hints one must judge of the sening. From
climate of that part of the country the lives in
Gise climate of that part of the country he lives in.
Give all the air that common sense dictates, but not enough to do injury.
not enough to do injury.
I once observed, on visiting an amateur, that he
had his buildings on the top of a hill, in which he
kept various breds. He had laticed rooms on
the varth idd of the houses and large doors open. kept various breeds. He had latticed rooms on
the north side of the houses and large doors open-
ing into them. He had all the doors set ing into them. He had all the doors set open
every winter's day (with the idea of ventilation) every winter's day (with the idea of ventilation).
The biting wind howled through the building The biting wind howled through the building
enough to chill a Polar bear. The birds insid
were huddled together close to the glass (in the were huddled together close to the glass (on the
sonth side; to be sure), but its effect for warmth sonth side, to be sure), but its effeect for warmth
was more than neutralized by the doors open on the north, as the wretched appearance of the in
mates plainly showed. It is needless to say that mates plainly showed. It is needless to say that
party voted pure-bred fowls a fraud. All his ex. pensive arrangements were useless. The bird
were blamed instead of the buildings and mis were blamed in
nanagement.
Each domicile
Each domicile should have a small opening for the tenants to go in and out, near the ground. It ward, and it should never be closed but in extreme cold weather. If there is danger of enemies enter
ng by night through it, a grating can be placed before it instead of a close door. Also over the
Alone
dentiators wire or slats hould be placed to pre entilators wire or slats should
vent fowls flying through them All fixtures should be soarranged that you can
asily get at them for cleaning, such as nests, feed, asily get at them for cleaning, such as nests, feed,
hoppers, \&ce., and should be all moveable. Nest boxes can have one side higher than the other, when standing on a shelf, the high sidion between withhe next nest, answering a part. Such nests can be ipped into a tub of whitewash and turned over to Irain. The liquid, by dipping, enters every part,
nakes a thorough job of it, and is done quickly. There are many such contrivances for economizing space in small pluces, which will be described in
due time. aue time.
Perches should be flat and just wide enough for
Swis to grip. Shingle laths, planed and the edges fowls to grip. Shingle laths, planed and the edges
ounded a little, make good ones. Let them lie rounded a little, make good ones. Let them lie
loose (without nailing) in notches cut for them in bearers, so that they can be lifted out to clean good. Day is to have posts set in the floor, on which asten the notched bearerr. On these lay the
perches. Be sure to have them sufficiently far
apart that the fowls do not touch each other, for apart that the fowls do not touch each other, for
this would soon spoil their plumage, making them worthless for exhibition. Anyone can judge from
these general hints how ondapt the principles to his means and accommodation. They
for any more expense and will, in the end, save
sill or any more expense and will, in the end, save
much by the suceess of the first arrangements, much
avoing the mistakes and alterations which
many have to go through in their first building. many have to go through in their first building.
Feeding vessels, pans, \&c., should always be so Feeding vessels, pans, \&c., should always be so
constructed that stock cannot step into them, especially when soft food is used in the houses dur-
ing winter. Some persons have all the fowls dis. ing winter. Some persons have all the fowis dis-
eased from allowing them to puddle through the
soft soft food, then into the dirt on the floor, then back
onto the food antil it is perfect y filthy ; afterwards into the food until it is perfect $y$
they wonder what ails the fowls,
Jrinking vessels should be similarly protected.
Dumbers Numbers of contrivances have been discribed from
time to time, and others will appear in due time. ime to time, and others will appear in due time.
Much controversy has arisen about the best flooring. All condemn wood; cement is strongly with ashes, removing the entire surface, once every with ashes, removing the entire or five inches, re. placing fresh earth and ashes, besides the ordinary leaning once a month.
A writer in the Lonlon Field states that poultry
properly fed will acquire all the fatuess needed for parketing purposese in a forthingt or three weeks
at most. Their diet should be Indian, oat or barley at most. Their diet should be ndian, oat or barley
meal, scalded in milk or water-the former is the beas, as it will expedite the fattening process.
They should be fed early in the morning, at noon, They shouta be fed early in the morning,
and also in the evening, just before going to roost,
and and given a plentiful supply of pure fresh water,
alenty of gravel, sliced gravel or turnip tops. If plenty of gravel, sliced gravel or turnip tops. I
the fowls tere required to be very fat,some trimmings
 with their other feed, or they may be boiled with
milk alone and poured overthe meal. This renders milk alone and poured over the meal. This renders
the flesh firmer than it otherwise would be. When fit to kill, feeding shoulld le stopped for twelve
hours or more, so that the intestines may become wirs or more, so that the intestines may become

Stock amd guiry.

## Three Classes of Horses.

Mr . W. R. Duncan, of Towanda, Il., in an ad-
dress before the Indiana State Fair, thus describes three of the more important class of horses, othe
than those intended especially for draught:"The class of horse bred and known :class. They are, for light draught or quick popular
busiclass. They are, for light draught or quick busi
ness on the road to a light vehicle, a horse of value but it becomes a serious question whether he is of
such value to justify our agricultural secieties such value to justify our agricultural secieties
(such of them, at least, as are organized for a legitimate purpose), to allow themselves and the entire community to be made horse jockeys of in order
that their value to the sporting class may be deterthat their value to the sporting class may be deter-
mined. If their popularity is based upon their value for a a useful, practical purpose, then is it not
proper that the farmer who breeds them should reproper that the farmer who breeds them should recieties of the courantry, rather than the jockey who trains them for the track? This class of horse has
been so bred that the blood of the thoroughbred race horse predominates in his veins, many of them
containing crosses of the bloot of the Canadian pacer, giving them knee action, as it is termed,
enabling them to trot with speed and ease to themselves, that being the preferable gait in harness. reatly and shamefully neglected by the breeder nd agricultural societies of the country. If more buggies, and many, of our ladies would eujoy better
health, as no exercise conduces more to a lady's health, as no exercise conduces more to a lady's ercise on the back of a pleasant going horse is always much to be enjoyed, and often the most convenient way of doing business; , while the horse
possessing the best saddle gait is often as well adapted to general use as any other
essing more of the qualities for which the horse is
the age, the class to which our agricultural societie
should, offer the most encouragement, for the rea-
son that he is the horse of the poor man as well a son that he is the horse of the poor man as well as
the rich. That portion of our people that own not more than one or two horses, must use them for all
morposes for which they use horses at all. Such i
purn . purposes for which they use horses at all. such a large majority of those in the cinty, For thi
reason the farmers should be encouraged to bree the very best.

Sugar Beets for Milch Cows. Are Sugar Beets good feed for Milch Cows? In New Yorker writes a a follows :January lst, under the head of "Diary your issue of January 1 st, under the head of "Diary of a Rural
ist," I find that he complains of the shrinking o at least 50 per cent. in the quantity of his cow's "Are they good feed for milch cows?"
For myself, I will answer, unhesitatingly, yes,
better to produce an abundant tlow of rich milk better to produce an abundant How of rich milk especially far superior to turnips, being exactly the reverse of his experiment in feeding. I am satisfied something else is to blame in this, other than past, I have invariably cultivated the sugar beets and fed it largely to all sorts of my domestic ani oth raw and cooked, and have ever found it hene both raw and c
ficial for them.
No longer ago than last November, our family we were feeding hay with an additional mess night and morning of Indian meal and wheat bran half and half, with a point of oil meal. It then directed most of this mill feed to be stopped, and in placeol and morning. On this change of food she began to increase her milk, and in a few days gave the same pasture, and before being put up in the when on hay and milk feed.
Sugar beets must necossarily be superior feed to aliving milk, for they abound in saccharine juice giving milk, for they abound in saccharine juice
and to show their value for feeding purposes as well as for making sugar, I will refer to several analyses
recently made of them in England, reported on recently made of them in Englayd, reported on
pages 24 and 25 of the London Agricullural Ga-
zette, of January 3rd. These give a trifle over 7 to

14 per cent. of solid matter. In our drier and
hotter climate, I should suppose the average percentage of sugar and solid metter would be increased
in the best crop ; but this would depend much on in the best crop; ; but this woul where grown. To produce roots of the best quality they ought not to
be grown in too rich a soil, like that of river bottoms or the most fertile of prairies, nor should
they be manured too highly in a poor soil, and what is of still more importance, probably, they
ought to be grown standing so closely together in ought to be grown standing 30 closely together in
rows as not to exceed 5 or 6 lbs in weight each. I prefer them even less than this, say 4 to 5 libs on the average. I would not give a dime per bushel
for great overgrown roots, weighing 15 to 20 lbs each. I have occasionally grown detached roots ittle better th, and for stock feeding found them my pigs, sheep nor cattle would touch them cut up aw and placed before them, so long as they could roper size the else decent to eat; while roots of a and grow fat or give great messes of milk from I wou
eet feeding suggest to "A Ruralist" to try sugar ervise the thing himself, and not trust it to any ne else, as I have found that my man John, as well as Jack and Bill occasionally made mistakes
in one way or another. -Cor. Rural New Yorker.

## Sheep Husbandry

The Farmers' Home Journal says:-"In many
parts of the Southern and Western States, sheep husbandry is an established fact; but those who expect to make of the business a permanent and
not a mere temporary success, must know no panse in their career, buta on the contrary, it will be neessary for them to continue steadily advancing. breeders to learn, a moment's reffection will show. It is not enough for a person to be practical at this alling, because the one who is only practical will necessarily remain A progressive sheep husbandry
forward an inch.
calls for intelligent theorizing-not the wild imacalls for intelligent theorizing-not the wild ima-
ginings of the dreamer, but the speculative aggresinings of the dreamer, but the spe "Sheep husbandry demands sence and art devotion is genius, and it is difficult see why it is not the same thing in any of the
various other paths of duty. A person who is reall and truly in love with his work, will hardly fail to do that work will; on the other hand, when the sead and heart do not fully co-operate, there is a centrated, and what is done is accomplished mechanically, but yet without the redeeming circum-
stance of mechanical accuracy sheep husbandry is fastbecoming firmly established soon the relation of the sheep to a higher agricultore will make itself felt, and will surely give rise oo very important results. And thus in the way
here hinted at, the Cotswold and the Southdown will become great instructors. At first, when the arm is overrun with weeds, and the land is becomng poorer and poorer year by year, the sheep has
to be put forward as an implement of husbandryas a mowing machine! After a time, when the sheep's claims in this respect have been made good,
and when in addition it has quietly and with smal ho when in addition it has quietly and with small becomes necessary to advance to higher ground,
for, as alreeady intimated, there is no haltiug place

The Kerry Cows as Milkers.
The Kerry cow is a remarkably grateful feeder,
or, in other words, will live on the commonest and scantiest diet, and when her lot falls into plesasant
places, will yield a bountiful lacteal return for the yenerous keep. Everywhere and under all circummilker. "The average yield of milk produceld ly
the Kerry cows belonging to a gentleman wh for many years paid great atteution to his breeds,", says R. O. Pringle, in his review of Irish Agriculture, is twelve quarts daily, and the a erage yeild
of butter from six to seven pounds per week. Sonine
of the cows have produced nowe lut stated have been above the average." Pringle con-
silers this to be thantitios of the this to be a large yeild, considering the size
of the animal aud the small amonut they consump A Kerry cow was known to have been kept for
tive years in a a stable in Dublin, which hal only two
calve and kept tup a full surply of milk for a large fannily.

- London Lice Stock Journal.


## American Beef in England

 I can give your correspondent no more authenticinformation respecting the importation of Ament beef into Liverpool, than he can gather from your columns. The process by which putrifaction is ar-
rested is described in p. 237 of the current serie Your own report of its quality after dining upon "steaks and roast joint,", will be found in p. 249,
and the market reports of last week state the " continue to receive American consignments of we continue to receive American consignments of ex-
cellent quality ;" "American supplies continue about the same with regard to quantity, condition
and demand." As regards the value bef York, or the charges of transmission, I can give no information ; as a consumer, and not a producer of meat, my anxiety as to the success of the experi-
ment is at an end. The week ending Ang 19 was remarkable for great heat, the mean temperature exceeding the average for the same week by no less condition of the foreign meat no complaints of the metropolitan market. Every obstacle appears to metropoitan market. Every obstacle appears to
be renfoved, the home trade monopoly broken
through, and meat from the Ear West exhibited through, and meat from the Far West exhibited on
the New gate market shambles during the tropical heat of this summer as perfect in condition as meat sent up from Leicester or York; in fact in finer
condition, ripened by having bean sla
 vellous trfumph of art over nature bursts upon the consumer by surprise. The rapid development of
the trade is astonishing. The first trial cargo rived at Liverpool at Cliristmas, and proved so suc cessful that the flow of meat is checkedo only by the
difficulty in preparing the holds of the vessels for difficulty in preparing the holds of the vessels for
the reception, and necessary engineering arrange-
ments. It is impossible to measure the effect that this opening of the meat market will have upon
British agriculture. It is beyond controversy that Bricish agriculure. It is beyond controversy that
a latchers'tion of the native meat exhibited on the
butalls is of inferior quality. The artificially feel meat is disproportioned as regards the oleaginous substances, greatly to its deterioration Meat so prepared will not be able to compete with the beef from American grass-fed bullocks. The fine Aberdeen beef grazed upon the produce of the
land with just the M Combie "dip" will hold its own against all intruders; but the oily beef will not be able to command a price beyond its value in
a free market.-English Agricultural Gazelte.

Horses and their Drivers.
Very many years ago, I male up my mind that
when there was a quarrel between a man and when there was a quarrel between a man and a
horse, in nine cases out of ten the man was in the wrong. Continued
The radical error into which drivers fall, is, that and will not do it. Then the driver proceeds to how that he is the master, and, in the vast majority
of cases, the horse is punished without the slightest idea why he is so treatel.
For a horse to understand instantly what his
driver desires, there must exist a pleasant fel between them. The hurse must feel a confidence
in his driver inh his driver, and with one driver a horse will show
himself fearless of locomotives, and with another
he will dreal then he will dreal them. One man will drive a horse than another will produce in driving him ten. Nothing tends more to cruelty to animals than
does cowardice of his beast, is the one who treats him the fear harshly. The man who is afraid of no horses, is just he man who treats all kindly. He is perses; ; but he also knows that this does not dhere upon the horse, but mostly comes from some extrameets on the road, or arcident of some sort. He willing and useful servant and companion, reanly to
 there springs up a pleasant feeling on both sides,
the horse is encouraged and cheerful, and gets
through his work easily and well gets vastly more from his horses than does a cruel
one. They come in fresll, they feel and sleep well, and begin the next day's work under favoralle eon-
ditions. Age tells but slowly on them ; at fifteen and sixteen years, such horses still show speed and
endurance, and are still gay and free goers, with years of usefulness before gay and free whereas
man's horse is used up long before tlis.
There should be kinduess simply from kind feel-

What is Pure Blood? The following remarks were made by President
Velch, of the Iowa Agricultural College, at the teeent Short-horn Breeeders' Convention: While coming here to-day, I was thinking of the important subiect-how long shall a thorough. red animal be bred by crossing with a scrub
hefore becoming pure blood? The English rule is, to cross four times with the female and five times with the m mle. We take half-blood and cross with pare-hood, and we have a quarter-blood, and at
he fifth cross we will have an animal that has thirty=one parts pure hlood to one part serub-
that is, if we compute the crosses airthmeticaly; that is, if we compute the crosses airthmetical' y ,
but when we take into consideration the fact that the pure-bloded animal is orrepotent over the serub, then the animal has but a minute portion of
When purebloded Short-horn serub blood. When a pure-blooded Short-hora
boll is crossed with a serulb cow, the result cannot be computed arthmetically, for the prepotence of the thoroughbred animal over the scrub contro's,
to to a greater or less ategree, The future beef and butter of the conntry geny. The future value of crossing. I crossed a common cow, a poor milker, with an Ayrshire bull
and the reanlt was an Ayrshire calf, resembling hi male parent, and with not one perceptible point in It is impossible to say that a certain number cro ses will producs ast protent animal on earth not particularly, but generally; and for example
we will take the seventeens. Suppose there hav been nineteen crosses since the importation of 1817 ; at the present time there would be one two thous: ndth part of scrub blood in a straight seven
teen (that is, if it was computed arithmetically) but when you take into consideration the pre-
potence of the pure-blood over the scrub, yo potence of the pure-blood over the scrub, you
would have an animal near perfection as it is
possithe to get. Where are the excellencies of possible to get. but hers merit and power to trans nit that excellence and merit to his proveny? recognize, also, the value of straius of families.
The value of a strain is, that particular family pro duces reversion, a very homely or inferior bull, if he be of good family, will breed back to some of his ancestors, and produce them. The principle th
like begets like, seems to be the true doctrine.

Hungarian Hay for Horse
effects of Hungarian hay on horses and other animals, and we are inclined to believe that when it
has seemed to prove hurfful it wiss too far alvancer
 and we question whether it would do any harni.
farmer of Whesterni New T Tork, H. S. Bodge, co grass every seasson for the last four, and have never
faided to raise trenendous crops. I can show pisitively that I have raisel five tons of cured hay to
the measured acre, although the groud on which I for years previms, I own a gooll many horses, and
many of them I haveg wintered enterely on Hugarian hay, from becchlher to Aprill, they not having
hal a mouthful of alything else, and in all the win-
tering of horses that I ever dill I never hal them



Cement for Cracked Hoofs.


 makes no secret of its composition, which is as wol
lows; Take one part of coarsely -powlered gunn



The Dairy Cow. A writer in the English Agricultural Gazette says
dairy cows and their treatment, that, taking quantity and quality as the test of excellence, cows calf. The milk from old cows usually contains a rreater percentage of water than that from cows in
heir prime. Old cows are held in light esteem or the purpose of the grazier, and when fat, the hence, on the score of economy, it is a bad practice to retain cows in the dairy much beyond their
prime. All inferior milkers, and any whom may have ost a quarter, we would at once draft out of the
herd. Depend upon it, the milk trade will gradually effect a great improvement in the cattle of this
ountry. The quart-pot test daily lays bare all ountry. The quart-pot test daily lays bare al
shortcomings and imperfections, and places them shorcomintly before the notice of the farmer. Where
practicalle, cow drafted from the herd should be racticable, cows drafted
attened off on the farm.
One important tesideratum in the dairy economy
f this country is an improvement of the farm build ings. The practice of storing large quantities
hay in the sheds or shippons prevails to a large ex ay in the sheds or shippons prevails to a large ex
tent. We cannot conceive anything more injuriou to the health of cattle. We maintain that every nimal requires a certaat the ordinary functions inf maye proceed unimpeded; a free circulation of nir and an even temperature are conducive to health ospheric changes, hence the cow-house should be warm, but well-ventilated. Low temperature re luces the flow of mik, hence cows im ful prote winter months; gentle exercise and a liberal supply of pure water is conducive to the health of all preg. all iu-calf have daily exercise, though not too many hours' exposiure during severere weather. No animal more readily resents harsh treatment than the cow. This is practicalty dem be obtained by different individuals from the same animal. It is a curious fact that all excitement, whether arising from the stings of gai
flies, hunting with dogs, or racing to the milking fies, huuting with dogs, or racing to the minas
fold, considerably lessens the yieloo milk. I have
nentionel this to remind you that kind treatment mentionell this to remind you that kind treatin
is of pecuniary value.

Stabling Cows the Year Round.
The great questiou among farmers is how to denuimal, the cow, which, of 27 animals, is the moss
neglected for health and confort. My remarks neglected for health ande the village nan with his
will be alike applicable one cow, op the farmer with his heri- of five, ten,
fifty. Is it bencticial for the cow, atter she is In say it is not; for the reason that all she gets is Injurious to her health, for all the poisonous atmos
inere called dew, that falls on the grass is taken phere, called dew, that falls on the grass is taken
into the stomach, and then she has o lie down on
it and the cold wet ground. The result is that it and the colld wet ground. The result is that
nine out of ten bave the scours in the morning, and are turned out the next night, and so through the scas should be left on the grass to make it grow,
that the cow in the stalle chewing her food that she
and and the cow in the stalne chewing her food morning,
has eaten through the day; then, in the mond
she will $i$, realy to commence her day's work with a good appetite. But you farmers may sany th
cow must eat nights, as in hot days she will lie in cow must eat nighits, as in hot days serience are o
the shade. If observation and exper
any value, they teach that cows stabled nights wi any value, they teach that cows stahled nights wil
eat all day, and what they cat is then free from all
竍 poisonous dews and in its most perfect state for the
stomach of the cow, who is realy when returned to
the stable at night, after being milked, to lie down the stable at night, after being milked, to lie down
and give a larger mess of milk, leave two or thre
and hart droppings for the manure pile, instead of
being scatterell all over the stable, as is the cas
 they come near it and eat, the manure which
lost from the st of May to the lst of November.
six months cows lay out nights. and during thi Six months cows lay out nights, and during this
time each cow will make two good loads of manure,
worth to any farmer $\$ 3$ per Toad to apply on his farm, for if I I pay $\$ 1$ ver poad in the city, and draw
it eight miles, it costs me $\$ 3$, and then it is not hal as tool. Twenty loants of manure which you would If farmers senerally would save ther manure hy
stabling their cows they would not have to discuss
the question how to enrich their farms, but would
find their farms enriched and their cows improved
in condition also. I mentioned the fact of tlies ating sores on cows. In the fall of 1870 many cows were sore from shoulder to hoof, and, if $I$ nistake not, some died from the effects. Now, flies noy the cows from 5 or 6 oclock p. m. till 9 or
10 o'clock at night; hence if stabled at at 6 oclock,
d the stable well ventilated, they are free from nd the stable well wentilated, they are free from
neir annoyance. And another saving, the boy or heir annoyance. And another saving, the boy our
ired man and dog have not got to get up at four hired man and dog have not got to get up at four
'clock a. m. and begiu their rounds to find the cows, some here, some there, some in the woods, nd some off in that other lot, till more than one
alf day's work is gone, and fifty cents gone in the half day's work is gone, and fifty cents gone
bargain for his work.-Chautaurua Farmer.

## Canadian Horses.

A report from Montreal speaks of the exporta-
on of a considerable number of Canadian horses or the English market. It should be understood, owever, that most of these are from Ontario, a onsiderable number of them having beens been ex-
he county of Oxford. Some doubt has been pressed as to the question of profit as attending such operations. A contemporary appears to dis-
pose of the question satisfactorily as follows : A good common roadster, of bone and substance
nough to draw a four-wheeler, and six years old, is worth in England $\$ 350$. Here he costs $\$ 150$. Freight, forage and insurance against absolute loss
nount up to and beast to $\$ 25$; and the venture nets $\$ 100$ per wanted in England by the moneyed classes can do even better. A long, short--eggen, weight-carrying got by a thoroughbred sire, can be obtained in Ca nada for half the price he is worth to a wealthy country gentleman in England. A hundred guineas
is there no great sum to ask for such a prize, while fifty is the biggest figure he could sell for here, But the most important feature of the business is sold, while the supply in Canada is illimitable. this account stock raisers will be safe in adopting a system that will not only lie of profit to then
personally, but will at the samétime add materially

More Milk $\overline{\text { With }}$ the Cream. It is the practice with some butter makers, when
imming milk, to remove as little milk as may be skimming in, while others prefer to take in bulk about as much milk as cream. C. L. Smith writes, in cominection win the pans in a heated condition, and pilk a warm room, perhaps many of the butter globules were exploded by the heat, and that they mingle will the milk would be to get more butter. There are times when the nilk sours before all the cream has risen ; yet the milk must be nearly if not quite
as goor from the same cow that is leeing fed the same fool in a warm morning as it is in a coo surning. But we ciften get twice the amount of
mereaun in the cetol days that wedo crean ine the ceol days that wedo in the warm day sultry day of August, when the crean will hardly pay for the labor. Now take a moo, coorlay, whe posed that there is that difference in the milk produced from the same cows on those days, when the cows are fed on the same pasture, that there was
in the amount of butter made from their milk by skimming the cream only? My judgment is, that nust injure the butter globules, and make the butter Alvy, as the friction 18 more directly apphied to the cream. Frome observation, I Lelieve too many buter makers do not skim as
nilk as they ought. Interior:

Tue Slops. - How common is it for the kitchen authorities in a farm-house to throw the slops upon the ground, just outside the kitchen door, and per-
haps within six feet of the well. I have known of a boarding house epidemic of diarrhoea which could be traced to no other source than the contamination of the well water by a shallow pool of
sun-exposed, foul-smelling slops. A cemented sun-exposed, foul-smelling siops. A cemented
cistern should be built about for or 100 feet from
the house and at a distance from the well, and to the house, and at a distance from the well, and to
this all the kitchen slops, vegetable waste, \&c., should be conductel through a suitable pipe or conduit. From the cistern these matters may be fed
to the pigs, or thrown upon the ground at a proper to the pigg, or thrown
distance from the house
and a bed of asparagus also. The procuring of a few plants of each costs but a trile, and
possession, can be indefinitely multiplied.
Seeds of the barberry and blackthorn should be bruised and washed a little before sowing; mixing with sand wile facilitate the operation; they can be sown in drills similar to turnips. The nuts of the horse chestnut might be gathered now and
sown in drills, covering with an inch or so of soil . sown in drills, covering with an inch or so of soil ;
they would require mulching after sown. Mountain they would require mulching after sown. Mountain
ash seed might be gathered and treated as directed. ash seed might be gathered and treated as directed.
The time is coming, and not far distant, when every effort will be necessary for the propagation and planting of trees, even for the ordinary purposes of fencing and firewood, let aloue what will be required for building and manufacturing.
All tools and machinery will require collecting and storing away ; oil thoroughly to prevent rust, and arrange things in proper order.
working condition.

## Contespoudence.

SIR-I, left Wimnipeg at l p. m. on the 23rd of
September to make a short walking tour. For four Siles out of Winnipeg, on the Portage La Prairie roal, you find a very fine country, well settled by
old settlers. About three miles from town there is old settlers. About three miles from town there is
a large brewery, where I stopped and talked to the a large brewery, where 1 stopped and talked to the
brewer, who sems to think that there will be a good demand for barley when the season opens for
brewing, which will be very shortly. A little further on is the farm of Hon. James Mackay, who, I

fruit-plums and apples growing nieely, but not
bearinglyet bearinghyet, though there were a few Transcendent
crabs bearing. Small fruit sem though, of course, I could not see them bearil here, they are all over. From Mr. Hall's I walked along
the banks of the river mad I think is a the river and saw the country, which I think is a very fine country for emigration: vast
prairies composed of from 13 inches to 4 feet of vegetable earth and a clay subsoil, which is the best soil possible : there is not the slightest doubt that
it will grow immense crops it will grow immense crops. At night I stopped at
a Mr. Morgan's, an old settler, and he told me thay he only once had a total loss of his crops, and that was from the gaasshoppers. Mr. M. is supposed to
have one of the finest gardens in the Province, and have one of the finest gardens in the Province, and
he certainly has the best one. I have seen from about three acres, he told me he made $\$ 1,400$ last year. This year he expects to have 10,000 bushels
of roots to put in his cellars, and he expects to re lise good prices. I believe that Mr. Morgan's crop will average nearly double a usual Ontario
crop. I will give you a dions crop. I will give you a short general account of
the country. It may be called a vast prairie, butry. It has some mooded be called a vast
a rivers and lakes. The best place now for emigrants to go is to the Pembina Mountains; it is a fine
country with both wood and prairie; but I think that it will mostly be taken up next spring. Some people in Ontario think that this country is desti-
tute; but really there is more life here than in On. tario. I will write no more fop this mosth's paper,
as I shall be intruding; want to know anything about the country I I shall
be glad to tell them.
W. H. DIsBRowe.

Sir,-About the marl: where I have applied it at the rate of two or three humdred pounds to the acre, it did not appear to the eye to have derived
any benefit from it ; but where I have put a couple any benefit from it; but where I have put a couple
of tous of it per acre it was quite visible, especially on potatoes, peas and clover.
not sorry for the money I gave for it am not sorry for the money I gave for it, for
I consider it is worth (your paper, the ADonsider it is worth (your paper, the
monecarte many times the
money I gave for it; I am pretty sure money I gave for it; I am pretty sure
that I have male some hundreds of dollars by the advices I got from it, and ex-
pect to make some more. In short, I con lect to make some more. In short, I con-
Pentanguishene, Sept. 26, 1876 . DTT [Marl, as with other. fertilizers, varies in strength in its constituent parts. That
applied by you must be uncommonly rich
ip applied by you must be uncommonly rich
in its constituents, or the quantity (a cou-
ple of tons) would have little effie in its constituents, or the quantity y a cou-
ple of tons) would have little effect. An
American writer says. "We often use the marl alone for potatoes, cabbage, \&c., also as topmari alone for potatoes, cabbage, \&c., also as top-
dressing or grass , for this latter sometimes from
15 to 20 tons to the acre." The beneficial effects from an application of marl are not wholly imme-
diate, but improves the fertility of soil for some years, in this respect resembling the effects of lime. Would Mr. dit B. be kind enough to write again,
stating the particulars of its application ?-ED.]

SIr,-I have a good horse for some time troubled whrough your valuable paper of any cure inform me Petrolia, Oct. 17, 1876. [The only reliahle cure is to have him fired and
blistered.-J. D. O'NeIL, V.S.] Sir,-Haying real in your Farmer' Advocate
that a successful trial had been made in Scotland to hoist stumps out of the ground with dynamite, we take the liberty to inquire of you if it could be as there is a.great,many pine stumps in this locality and would be anxious to give, it a trial. Please in sert," if possible, 'in next. ${ }_{\text {Frederic Allemárd, Eden P. } 0 .}$
Bayham, Oct. 9th, 1876.
[In reply to Mr. A:, we regret we cannot give him the information or the quantity of cannamite used in the renioval of stumps, or its cost.
-The experiments referred to in cur last number were experiments referred to in our last number stumps is denied ly some, thonglh as strongly as.
serted by others; among' the latter is the Scienserted by others; among the latter is the Scien-
tific American. We Would wish much to see the experimenitan. triel he wore, as experinients alone can decite the disputerl , Inestion. A A trial might at
dirst he made on a smail scale. If what is claimet tirst be made on a small scale. If what is claimed
for it be true, it will be extremely beneticial to
farmers owning partially clearel farms.- Ei.]

SIr,-According to promise, I write you about
the free grant lands, and things in general, , in this Algoma) district. On my arrival here I found a great change in the appearance of things since 1 laid on the Canada Pacific RR.,
Fort William, north-westward,
and ort William, north-westw, and running through the township of ouver; there are the that riils, and the road is now being graded from the
Fort to Prince Arthur's Landing, five and a half Fort to Prince Arthur's Landing, five and a hal to Prince Arthur's Landing this fall, which will ecure the terminus to Prince Arthur. The stone ound house and stone jail, court honse and registry tion, and all other Government works seem to be progressing favorably ; but there is one item in he expense of carrying on the work in this section lessened if agriculturalists would properly pay attention to farming here, as the free grant lands ar convenient, and really good. The Governmen nually for produce for the works, and as it al
 we shall be
them.-ED.]



sown the country would be a great deal richer in was twenty bushels and Treadwell eleven bushels to the acre. I heard yesterday of a man, a few
miles from here, having 15 acres of Fall Wheat He left 10 bushels at home and took the rest $t$ market at one load. Another told me that h only had 30 bushels from 6 acres. Still people wil
sow the old seed, at least the great majority of them. I suppose they yare like the Dutchman that
knew his was good seed having had it 20 years. knew his was good seed having had it 20 years.
I have sown $2_{\frac{1}{1}}^{\text {bushels of Clawson raised from the }}$ 4 ounces you sent 2 years ago, when I I got some Scott wheat from you. The Australian Oats is
very good, but will not weigh so well as last year. very yood, but will not weigh so well as last year.
I think people make a great mistake in sowing the old seed so much, and not even trying to get change.
Teeswater, Oct. 4, 1876.
[We have never raised a
John Parkinson.
We have never raised any oats like these you have sent. There are nonelike them raised in this
part of Canada. We cannot say if they are supe-
rior or inferior for general cultivation. If they Crop Returns for 1876.-Hay crop was abun-
dant. Fall Wheat very poor, from 10 to 15 bushels
per acre. Spring Wheat about two third crop or per acre. Spring Wheat about two third crop or
from 15 to 20 bushels per acre. Barley an average crop, good sample, small berry. Darley an average
Outavy crop
but a great amount of smut. Peas the bestfor many but a a great amount of smut. Peas the bestfor many
years. Root crop suffering for want of rain. Poyears. Root crop suffering for want of rain.
tatoes are a good crop and excellent quality.
THE WAY THE WAY I TriL Potatroess.-I scrape the loose
irt back to the edge making the pit say the lirt back to the edge making the pit, say three feet wide and twelve feet long, drive a crotch or piece
of board down, one in the centre of the pit and one of bard down, one in the centre of the pit and one
at each end so the top of them will be about the
same heighth as the same heighth as the potatoes when the pit is fin-
ished. When you want to cover put a small rail or pole on the crou want to cover pulong the top, then a short pieco of board from the pole to the ground on each
side at both ends and centre (rafter style) and then ide at both ends and centre (rafter style) and then
board on these like sheeting, then cover over the boards. The space between the potatoes and covLAND Puste safeguard. Land Plaster this season. To four aeres of meadow cross the field in the centre about two rods wide
which I did not sow any. When I which I did not sow any. When I cut my hay
there was not more than half the amount of hay

Land Plaster this season. Tn experiment in sowing


Cotswold Sheep
The above cut represents a flock of Cotswold Sheep, the property of F. W. Stone, of Morton
Lodge Farm, Guelph. Mr. Stone has imported more Cotswold Sheep into Canada than any other im porter. He now has a large flock from which Breeders can selents. $\qquad$
SIR,-I think it due to you to report the merits of the you two years since. This dry season it has from you at the rate of 46 bushels an acre, while
yielded and Tartarian Black oat has yielder only free from rust,
the acre. The White is entirely the acre. The no. The straw is at least 15 inches longer, beautifully white and clean. The grain of
the white is fuller and plumper than that of the the white is
black. Both sorts were put in the ground at the same time. The land for both is sandy, equally well manured and cultivated. The .two kinds were
planted side by side therefore nothing can be planted side by side, therefore nothite Austra-
plainer than the superiority of the Whit plainer Wherever you obtained it you deserve credit for introducing it into this district.
apparatus for ploughing? Also, where are
they made? can they be used to advan they made? can they lee used to advan
tage on a farm well cleared and free of stumps and and stones, except a few hard-heads; or are they
too expensive to make the use of them pay? How too expensive to make the use of them pay? Ho
much can be ploughed in a day with one of them ? Any further information that you may deem neces
sary will be thankfully received. Charles,
G. F. Chars. [We are not aware of any steam plough being
[Wed in Canala. There are a few used in the States used in Canala. There are a few used in the States
in Fingland there are near two thousand in use. in England there are near two thousand in use
We were surprised that at the great Centennial Exhibition not one could be found. We believe hey can be used to advantage on well-cleared faraua
but do not think they would pay any individual farmer we have yet seen or farm we have been on, because the farms are too small, unless several far mers would join together and procure one, or
man travel with the machine, as they now do with a threshing mačhine. Messrs. Aveleny \& Perter, loughs. There are many other manufacturers in ploughs. There are many wher manufacturers ill
England: we do not nuw which is the best. Will
. give more information alout them in some future $\left\lvert\, \begin{aligned} & \text { give more infurn } \\ & \text { number.-ED.J }\end{aligned}\right.$

## Agricultute.

Feeding Value of ©ats, Beans, Maiz and Bran.
Every good groom knows that sound oats and beans in due proportion, and at least a year old,
are the very best food for a galloping horse ; the are the very best food for a galloping horse ; t
only food on which it is possible to get the ver only food on which of a race horse or a hunter. has also recently become known that horses
slow work and get fat, indeed too fat, on maize slow work and get fat, indeed too fat, on maize,
Indian corn, which is rrequently one-third cheaper Indian corn, which is requently one-third cheaper
than the best oats. In the East, horses are fed on barley, and it is a popular inea with English officers
who have lived in Persia and Syria, that the chang who have lived in eersia ats often, when imported,
of food from barley to oats of produces blindness in Arab horses. Now, although no men understand better or so well how to get
blood horses into galloping condition as English grooms, they do not, and few of their masters do, know the reason why oats and beans are the best food for putting muscular flesh on a horse. agricultural chemist steps in here, you want pace, Indian corn, although nominally cheaper, is not cheap at all. According to Dr. Voelckers and other chemists, barley, and maize, the following constituents :
$\begin{array}{cccc}\text { Oats. Beans. Barley. Maize. } \\ 14.3 & 14.5 & 14.3 & 14.4\end{array}$
Water
$\begin{array}{llllll} & & & & & \\ 14.3 & 14.5 & 14.3 & 14.4\end{array}$ Nitrogenous or muscle$\begin{array}{lllll}\text { producing conpounds } & 12.0 & 25.5 & 9.5 & 10.5\end{array}$ Starch and other non-
nitrogenous heat and
fat prolucing com-
oil, as reands.

|  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Oil, as ready-made fat. | 54.4 | 43.0 | 64.1 | 61.0 |
| Indigestible woody fibre | 10.3 | 2.0 | 2.5 | 7.0 |
| In.5 | 7.0 | 5.5 |  |  | | Indigestible woody fibre | 10.3 | 11.5 | 7.0 | 5.5 |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| Mineral matter (ash) | .. | 3.0 | 3.5 | 2.6 | 2.1 |

Total
$\begin{array}{llll}.100 .0 & 100.0 & 100.0 & 100.0\end{array}$ deep draining, clean-cut fences, increased sheep feeding, had improved agriculture at the expense minute runs at hest pace that are now so rare :"it found out the horse that ate old beans an best oats." In fact, they made experiments they
did not understand, which it was lett for the modern chemist to explain.
When we feed $a l$
When we feed a bullock, a shece, or a pigg for
sale, after it has passed the store stage we want to make it fat as quickly and as cheaply as possible but with a horse for work the object is, give him
muscle-in common language, hard flesh. There muscle-in common language, hard flesh. There
are times when it is profitable to make a horse fat as, for instance, when he is going up for sale, afte a severe hunting seasen. For this purpose an ad
dition of alout a pound aul a half of oil-cake dition of aloout a pound and a hat of oil-cake
his ordinary food has a goont effect. It it especially useful when a horse that has been closely clipyen
or singed is in low condition. It helps on the change to the new coat by making hime fat. horse in low condition chat of
Now oil-cake is composed of
Moisture

$$
\begin{aligned}
& \begin{array}{l}
\text { Oil....................... } \\
\text { Nitrogenous compouds... } \\
\text { Mucilare and digestible fil }
\end{array} \\
& \text { Voody fibre }
\end{aligned}
$$

Total $\qquad$
$\qquad$ 12.00
+11.50
.29 .70 $\begin{array}{r}29.70 \\ 27.80 \\ 27.80 \\ \hline 7\end{array}$

When from any . ting a supply of the best oats, an excellent mixture may be made of crushed maize and beans, in the proportion of two-thirds of maze and one of beans,
which exactly afford the proportions of flesh-forming and fat-forming foot
Bran is a very valualle fooct in a stable for re ducing the inflammatory effect of oats and ${ }^{\text {Made }}$ into Tiashes, it has a cooling and laxative effect, but used in excess, especially in a dry state,
it is apt to form steny secretions in the bowels of the horse. Stones producel from the excessive use
of bran have been taken out of horses after death weighing many pounds. When sawn through they appear to be composed of a hard crystalline mass, deposited in regtlar anular ring, yearly rings of wood; appearance the concentric yon pliosphate of mag.
they prove to be composel of
nesia min ammonia. Niillers' horses are particularly sulyect to this malayy The best way on ginarin beilen until quite soft, to the mash of each horse. - English Live Stock, Journal.

Nov., 1876
THE FARMERS' ADVOCATH

## Deep Soil.

 Among the peculiar features of the exhibit of She has long glasss cylinders over a foot in width and many feet in length, and in this is placed earth, just as it exists. Ou the top is the black soil, thenthe subsoil, "solid bottom," or whatever the end is called This enables the stranger to see how deep is the
rich black soil, and is very attractive to the visitors rich black soll, and is very attractive to the visitors
There is a glass illar for each county, and the soi of each county, just as it is, is represented each by
itself. There is no doubt it is one of the very best methods of showing how deep is the soil of Iowa, and that the fact will have at least its due we those But ong homes in the Wesw alone deep soil that it is to make good farm land Though rich black soil is a hundred feet deep, it it to a good crop. Some roots go deep, but the chief feeding roots are near the surface, and in time they will exhaust the soil, and, unless sthe lower strat
are brought to the surface, at some expense, the crops will be poor. This has been found the case
in Ohio. Here was deep, rich soil, as deep as any one could wish, but in a quarter of a century it down again to grass, and cattle now graze over land which was once the grain-raisers' pride. The subsoil might be broug s like the old way in many things, and no way of keeping up the fertility of the soil is like the old way of feeding it annually with manure. Soi be bestowed upon our western journals and eastern farmers who ta $k$ about manuring, but the richestl be when these deep lowa tion, and the time wiil these Centennial glass col-
soils, as represented in the lections, will have to be annually manured like all the rest.
Even
Even the deep p'onghing, the turning up of this
rich subsoil, is not aiways the best plan, even when the expense of turning it up is not so great an ob-
ject, for, notwithstanding the advice of the great ject, for, notwithstantn "plow deep," prairie men
farmer of Chappaqua to
never apreciated it. The universal testinony is, never appreciated
that in breaking prairie for cultivation the shallow for it, but we need not give it here, where only the undoubted fact is of consequence.
We are glad the know that owa soil is deep and rich, and see the evidences thereof at this grea
Centennial Exhibition. It does no harm whatever, and in many ways the exhibition does good. Bu in the name of good farming we must point ou
that for permanent and genuine a riculture it is on that or pernt. The English have no virgin soil,
little accunt.
no black, deep bottoms to their land, but by juno
dicious and cheap management it yielde to da
arons of which the black lands of Iowa might be crops of which the black lands
proud.-Germantown Telegraph.

## Clover and Wheat.

Time and again, says the Indiana Farmer, it has a good crop upon land previously run to clover
Equally often has it been shown, by actual trial Equally often hes it be made a profitable crop to also, that. When we consider that these two facta
the farmel.
are well known, is it not a little singular that far mers will persist in taking their for wheat ? Year after year this is done on land not possessing the elements required to produce wheat, bat whic wonld produce clover, which the soil' in precise con-
a profitable crop, would put
dition for a wheat crop. Why not observe these a pron for a wheat crop. Why not observe these plain facts, and thus become moe sn by actual and
Dr. Weisk, of Germany, has showlue of clover as a preparatory crop on wheat land, and, indeed, for corn and other crops requiring simiar elemens left
soil. It was shown that a single acre of clover soil. It was shown the soil to produce 116 bushels
enough nitrogen in
of wheat; phosphoric acid for 114 bushels, and potof wheat; phosphrich bushels. These are the active and essential elements of soiss for procucing whe
We urge again that it is both a useless waste of time and labor to plod along without method or information, or what is known on this subject in the
to yield to what is production of wheat. If ever the production of wheat is increased, these well known and well
tested facts must be observed. It may be true, tested facts must be observed. It may be true,
and is, that there are sometimes failures in wheat
ant crops even in land so prepared. But these are
clearly traceable to conditions of climate and atmos.

Lhere, character of land, and want of drainage rops of wheat and corn, can be made to nearly and at the same time the clover itself may be mad a valuable crop
One other co
One other consideration regarding clover. Far-
mers frequently say that in their sections of country clover freezes out. Now, we suppose that if people should a ttempt to wear linen cooats during the
winter, they would freeze also. What we mean to sater, they would freeze also. What we mean late in the season. The practice indulged in o grazing land bare to the roots of the grass is the
hief cause of its freezing out. A reasonable afternath should be left for winter protection, and the would be little of this freezing out heard again. -

Experiments in Farming.
A writer in the Vermont Farmer says: A large class of farmers at the present time apply the ma-
nure in the spring, do a good share of their plowing in the spring, when the team is the least able to endure the hardship, and it is really harder plow-
ing at that season than any other. Now ing at that season than any other. Now
have become satisfied beyond a doubt that the
best time to plow and apply manure is in the best time to plow and apply manure is in the
summer as soon as may be after haying, and as summer as soon as may be after haying, and as
soon as the midde of October. I commenced to
In soon as the miadee oo october. Tirst of September,
draw the manure as son as the spreading it, invariably, from the cart, and all
the better if harrowed in the same day, as I be the better if harrowed in the same day, ase its strength by evapora
lieve that manure loses heve that manure loses
tion. Land thus prepared will not only help to
facilitate the work in the spring, but will give facilitate the work in the spring, but will give
hetter crops than by any other way I have tried.
lhe Thave handed and put it in large heaps to lay till
the middle or last of May, and have then applied it the middle or last of May, and have then applied to the soil, and I had rather have two loads pu four
in the fall direct from my barn cellar thau for
loads in this way, as it leaches and dries up so that loads in this way, as it leaches and dres up so thar
it becomes of much less value. I have for years applied my manure both ways, but should have
adopted the new way yoars ago had my cellar been large enough to held a year's stock of manure. In most cases, when 1 seed down to grass the first
year, I get splendid crops of grass the reason o
it being that the land is not worn out by crop ping before I seed it down, and the manure get incorporated in the soil and is ready
How many times I have seen little heaps of ma How many times the load) lay over plowed field and on the grass land, to be spread the next spring.
Where the heaps lay the soil is too rich, and it sown to grain it all lodges, the straw is almost worthless, and the grain dies not fill. If potatoes are the crop, one will have a good growth of vines and
legion of small potatoes. If grass land, the grass legion of small potatoes. It grass land, the grass
where the heaps lay is all killed out, and in return noxious weeds come in. In building barns many
make a mistake by not having more roum in the make a mistake by not having more ro m in the
manure cellar. It should be at least nine feet high -ten is better-with trough slape at the botton, and cemented so as to preclude the possibility
losing the best of the manure. The stable should losing the best of the manure. The stable should
be 16 feet wide, so as to drive in with muck or
ore be 1 ree absorbents, and there should be a space back
of the trench, three feet wide, (a bin fike) aud
ond of the trench, three feet wide, (a bin ike) ain
three or three and a half feet high, for storing
With such a stable, where the cows absorbents. With such a stable, where the cows applied in the fall, instead of having a farm running down, it would make one smile to see the in-
crease in the crops. Who says my way is not a crease in the
good one:

Alfalfa or Lucern
Alfalfa, the Pacifc Rural Press says, was trans.
lanted into Greece from Persia nearly five hundred years before the Chrom Chian era. At Aresent it is
y. Find largely cultivated and gives great satisfaction as a
parts of Europe, and forage plant. It is being introduced quite exten
sively into our own country, and though as yet Ca-
life alfala lifornia is far ahead in its culture, in time alface
will, we take it, be a prominent crop in all places
where the winter is not too severe. Perhaps where the winter is not too severe. Perhapis, even
more noticeable than its rapil and enornous grow th, more noticeaale thand ability to withstand our long dry seasons, and to remain fresh and green wha
nearly everything else succumbs. On the pampa
ne South America it thrives, and appears rather to onjoy the drouth than otherwise. The power th enjoy the great heat and dryness comes from the
withstand
long, searching roots, which are sent deeply down long, searching roots, which are sent
into the siol to find the moisture that
to other less energetic vegetation.

Home-Made Manure.
In searching for manures we believe it is a safe
lan, in that as in many other things, to follow the dictates of nature. Nature draws her supplies of ertilizing material from decomposing rocks and alling leaves, and while we have not yet learned already drawing large supplies from minerals richer neve fertilizer, though more rare. And we be-
lieve as our needs become greater, the supply will e brought to light. Already we derive ilmense
quantities of potash from Germany, and of potash and the phosphates from the kyanite of Canada, while the fossil bones of fishes of thousands of years ago, from the swamps of Carolina, are yielding
their rich treasure for the fertilization of the fields of the whole world. But all these products have heir specialties ; there is not ohe ans is manure, but one which really costs nothing and is good for
all crops; that is derived from the barnyard, "the henhouse and the pigsty.
A farmer may
A farmer may go on from year to year raising
large crops and selling them, and then buying his large crops and seling them, and then buying his
manures from the product of the rocks, the fossil
bones of antediluvian fishes, or the medicated bones bones of antediluvian fishes, or the medicated bone
of the cattle which feed our cities, and he will really be growing poorer every day, though he may be putting money in his pocket. .But if he keeps
cattle and saves their manure he is every day add. cattle and saves their manure he is every day add
ing to his own wealth and to the value of his land. It is the old story of raising at home instead of buying from abroad; keeping cattle and saving lizer instead of buying it. The amount of grain uecessary to keep the cattle would not boy half as asturage and the return to the soil by that means hey eat and are constantly yielding revenue and

Turning in Clover.
I once had a very poor, exhausted lot come into
ny possession; the field was naturally good, but un down. It was under the plow the year before. sowed it to oats, and stocked thoroughly with
he large kind of clover with the oats. The oats he large kina out clover with the oats. The oats nexcellent catch and growth of clover. The next harrow ahead of the plow, exactly as $I$ wanted to low, and not much faster. When the harrow ame round, I took my bag of Nova Scotia plaster, the acre, the callowed with the plow, about seven inches deep, until the field was finished. The
clover was in blossom. In August I harrowed it thoronghly, and sowtd to rye. I had an excellent crop of rye, and have never failed to get a good
crop on the field since except in a small corner, which was too stony to turn the clover under at efee time. All the crops since have showed the
effect of that clover and plaster. The stones on the whole field have since been removed, and, with others, form a handisome fence on the four sides of
the field, and I can now hoe, mow, or pasture at The Best Farmer.
Farming is the changing of material (manure)
into grass and grain, and thence into pork, beef, wool, etc. When the land is purchased, it is this is the value. The rest is mere sand, or clay, or
ock. The object of the farmer the she rock. The object of the farmer, then, should be
to secure his much as he can, always keeping his machine, the farm, in good working order, mellow, well draine and clean. Instead or this, we are too apt to abuse
the machine. The object of the farmer, then, the mastways be naunure, fertility-how he can get this raw material cheapest, and work it best int grain, grass, etc., and thence into other products,
such as are of most alvantage to him.
The best farmer 1 he who raises the , ,est and largest crops
on the smallest surface of land at the least expense, and at the same time annually improves his soll;
who understands his lusiness and attends to it; whose manure heap is very large and always in,
creasing : whose corn crib) and smoke house are at creasing; whose corn cri, and snoke house are at
home; who is urrourded thy all the necessarien and
comforts of life; whin studies his profession, and strives to reach perfection in in ; who kepss a strict
account of his out 5 ,ess as well as his incomes, and
who knows how he stands at the eidid of s. Such a farner, in nine times out of ten, weall poditable occupation.

Ceamadian Adgricultural glotes.

## Ontario

A writer in the Stratford Herald, in "camping out in Muskoka," gives some pleasant descriptions
of the natural beanty of that section of country. Of the vicinity of Bracebridge he says "its situation is highly picturesque and being built on a comman-
ding site and the land pretty well cleared, a regular ding site and the land pretty well cleared, a regular panorama unfol gorges, one the haunt of bears and
and mountain
wolves, and forest-clad hills glowing in their verwolves, and forest-clad hills glowing in their ver
dant beauty, surround the village like a vast amphitheatre. Here and there seme gigantic lord of the forest rears his stately head, its majestic form
sharoly outlined against the light blue sky ; isosharply outlined against the light blue sky; iso-
lated groups of beech and maple dot the landscape in different directions, while groves of young forest trees erown the irregularsurface of the surrounding
hills." Rather rough ground this for the plow and hill. Rather rough ground this for the plow and shown by the heavy birch and maple. But all is
not broken ground. The writer proceeds in his not broken ground. The writer proceeds in his journey: "The mighty forest still holds its own,
and will do so till the gleaming axe of the settler grapples with it. The rich deposit of leaves lying
for untold years, and pulverized matter of all kinds for untold years, and pulverized matter of all kinds
that once blossomed and then withered, with no one to see them, will be upturned by the plough, and the immense waste of brushwood and rotten trunks will
give place to gay meadows and green fields. We give place to gay meadows and green fields.
passed some magnificent ferns five or six feet at least in height, and the wild thowers and flora of all kinds would bring joy to the heart of an enthusi
astic botanist. Jasmine and primrose, myrtl astic botanist. Jasmine and primrose, myrtle
and sweet brier and the wild rose bud and blown, and waste their sweetness on the desert a.
as they lived in loveliness and obscurity.
chananians who own such a territory, its roughest section, anticipate a great future for the Dominion.
At the Agricultaral Show held at Appin, 34 dis tinct varicties of grapes were exhibited, grown in
the oppen fied at the Ekfrid Vineyards. So favor able a season for this fruit has not been since 1870 the summer heat having been great, and the absence
of severe frosts this fall, allowing even the Cat awba, one of the latest, to mature. Specimens of this grape were shown almost fully ripe.
Last week Mr. Whaley, of Stratford, and Wm
McClain, of Goderich, shipped to the Albany and New York markets 24 car loads of sheep and lambs 4,560 head costing $\$ 24,450$. Six loads were shipped direct from Canada, and the others
bonght at Buffalo and Suspension Bridge from other Canadian shippers.
The Goderich grain market has been very lively during the past week, and the receipts of grain have
been pretty large. About 4,500 bushels of wheat were received at the Harbour Mills during last week. Shipments have been made as rapidly as the scarcity of cars and the bad weather admitted.
Wm. Seymour \& Co. shipped 1,200 bnshels peas and 1,000 bushels barley by rail, and commenced loading the schooner Ontario on Monday with 7,500 bushels of wheat, 3,000 bush
A gentleman lately returned from Manitoba
furnishes the Almonte Gazette with the following information:-"The soil of Manitoba is unquestionable good, is of a rich black colour, and is re-
markably adhesive when wet. The absence of the grasshopper this year has given it an opportunity
of showing what it can produce. Wheat, though of showing what it can produce. Wheat, though
not quite up to the quality of some other years, not quite up to the quality of some other years,
will average 30 bushels to the acre, and sells at 80 cents per bushel. Oats are a splendid yield, averaging from 60 to 70 bushels an
ing at 40 cents."
A correspondent writing to the York Herahl thus speaks of Algoma :-"For the most part, the shores of the Lake are rockey, the ridyes rising
from a few feet to 1,000 , though the latter elevations are rare, and are comfined to the northern shore of Lake Superior. Traffic being almost ex-
clusively confined to the water, many land seekers judge the whole country by the rocky shores, and port a faie notions that the place is unth to been port a fair population, and no doubt such happily, all make a faithful comprarison with places, we have,
along the shores of Huron and part of Superior, many farmers who aro comparatively well off,
while small villages here and there dot every few
miles. The soil is principally a clay loam, or sandy clay, easily cultivated, and very prolific,
timothy grows to the height of six or eight feet, timothy grows to the height of six or eight feet,
while roots of all kinds give a proportionate yield while roots of all kinds give a proportionate vield: one bushel of sead. On the whole, the land will
favourably compare with the northern part of favourably compare with the northern part of
Halton and Peel and the ridges of York. The major part of the land is free grant, while the
balance is sold at twenty cents per acre ; and each balance is sold at twenty cents per acre; and each
adult, male or female, may obtain 160 acres of adult, male or female, may obtain 160 acres of
Free Grant 320 of ythe latter ; and after the
lapse of five years may apply for a Crown Patent. lapse of five years may apply for a Crown Patent,
which will be granted if the laws relating to said which will be granted if the laws relating to said
Free Grant Lands have been complied with, viz: to
have cleared and under cultivation fifteen acres, a have cleared and under cultivation fifteen acres, a
house erected $16 \times 20$. Hay averages $\$ 20$ per
to ton ; oats 50 cents per bushel ; corn \$1; barley $\$ 1$;
peas $\$ 1$; so that the demand is always and will be good. Pr
lot here.

## Quebec.

an extensive model farm
A correspondent of $L e$ Journal furnishes some interesting details with respect to the largest of
the eight model farms of the Quebec Seminary in
the neighboring parish of $S$ Q Joachim. This farm the eight moding parish of St. Joachim. This farm
the nevers some 900 acres under cultivation, and from
co covers some 900 acres under cultivation, and from
these are annually raised about 1,200 bushles of wheat, 30,000 to 40,000 bundles of hay, not includ ing beach fodder, besides supporting a very large
stock of the best horned cattle, in which are com prised some 54 milch cows, from whose products obtained, in addition to the quantity of their mill used in the maintenanoe of their calves. All the
latest improvements in the way of agricultural im latest improvements in the way of agricultural inn
plements are $\mathbf{~ t o ~ b e ~ f o u n d ~ o n ~ t h e ~ p r o p e r t y , ~ a n d ~}$ every facility that can be devised to expedite and accommodate human labar in the tillage and gene be provided.-Quebec Chronicle.
The report of the Fall Show of the Sherbrooke Agricultural Society came to hand too late for no-
tise in our October number. The exhibition was held on the grounds adjoining the railway depot. It was very successful, superior to any preceding
year, and the number of people present was greate year, and the number of people present was greate
than on former occasions. The show of horses was large, and of the saddle horses especially some received high commendation. There were some very god cows exhibited, and the display of horses wa
fully equal. Of sheep, the show was considered superior to those of former years. Swine was fully an average. The quality of the produce of farn the Eastern Township, while the show of agricultural implements bore indis
improvement of agriculture.
herbrooke canadian meat and prodece com Le National says: "This industrial enterprise is
thing unique in America. You stand and se brought into the slaughter-house a live animal, an
ox or a sheep, and in the space of a few hours it meat will be found prepared, seasoned and cooked in tin cans, which are made at the same time with run by steam-power. What, perhaps, is the most astonishing, is the complete absence of any offensive part occupied as the slaughter-house perfect neat ness reigns throughout."

## Nova Scotia.

Was opened on the 9th of Octuber, the Hon, Governor Archibald presiding, and an able auldress
was delivered by Col. Laurie, President, of the Central Board of Agriculture. In ' 74 , the last ex-
hibition, there were only ten thoronghlred animals exhibited by private individunals; there are now ex-
hilited 10 to 15 times as many. Anong the prinhibited 10 to 15 times as many. Anong the prin1
cip.l exhibitors are Col. Starrett, with his herd of Ayrshires, some fine animals; Col. Laurie, with fine
herd of Deyons Lawson, with his Durhans, and many others, The
Lexhibition was yuite a suceess , The wrunt Exhibition was quite a suceess. The gromins are
new, and not altogether as level as they will he; anil
 town, giving a splendill view over the heat and
provicrous town of Truro.
 stuck, we as Galmians have nint failen in the
each one invest a few dollars in a good sire animal who does not already, instead of allowing the cows
to run with the runt of tne road, and mark the effects. The animals exhibited were a fair lot, there were some good animals and some very inferior. The kinds exhibited were Durhams, Devons, Ayr-
shires, Alderneys, and grades ; a good number of shires, Alderneys, and Horses were, I think, rather below the mark.
There were very few, if any, really There were very few, if any, really good heavy and a less quantity of bloorl. Dr. J. T. Jinkins, of Charlottetown, P. E., had a fine trotting stallion here which was on its way home from Phiadelphia, Canadas.
Sheep, as a flock, were very inferior, and I would
like to see a little more ment of so fine an animal for our country. or 4 very good pens of ituite a nuroved Berkshires, and a lot of Chester Whites, nothing.
no other kinds on exhlikition.
Poultry. - A poor show of poultry, taking it altogether; only a few good comps.
liruit, Roots and Vegetables.-The display is very
creditable. As fine a show of apples as you would see, each County computing aggainst the other, each having a space occupied and a large placard
above. Other fruits were not as good, being little shown. No Peaches, poor Pears, and a small dis-
sorer play of Grapes, although some good bunches. Roots pecially potatoes, and some excellent samples they were. Turnips, Carrots, Mangles, \&c., all very good, each having a largo space occupied. If it were or anything of such nature put in looxes or wire baskets of the same sive and arranged in rows, how much better it would look than as now, each man
finding his own; some an old laag, some old dirty boxes arranged in no uniformity, and not showing off to any advantage whatever; nevertheless, the show in this department was goonl. Lad es Department. - In ray and yarn mats,
Nova scotia ladies excel, for the large number on exhibition shows consilerable industry and taste in paterns, a display that would hold a good place any
where; and the ladies deserve credit in this depart hent. But needle work, such as tatting and other fancy work, I have not seen in Novas sicotia parti-
cularly; at any rate I have never been at an exhicularly; at any rate 1 have never been at an exhcarcely any of such fancy work at ail. Probably here were no prizes given; d do not kinow, but some 14 th, proving financially a sncecss. I believe people was all satisfied with what they hall seen. Ther was an agricultural meeting or discussion heta dur-
ing the week, I ann toll, to discuss the advantages of improving stock or disalvantares.
Truro, N.s., Oct. 12, 1876.
P. S.-The imported animals mentioned ill las Board considers rather low prices.

## New Brunswick

In commercial circles there has been moderate
activity of late, and the increased arrival of tonnage from sea has had a tendancy to renew confidence,
and a more favourable winter than at one time and a more favourable winter than at one time
seemed probable is now tooked for. In the leading branches of business the experience of the past
has had a good effect. The readjustment that has leen going on in nearly all circles has at least grading. Gont tiries are looked for in consequence of the bundaut harvest. In this Province par-
ticularly, the crops have been much above the average, and hereins lies the hope of future prosperity. In the lumber business things are working into better shape, and cargoes for shipment show improving prices. Freights can harde som some recent charters indicate an advance. In ship building there is the usual amount of stir, and new vessels are coming into port every
now and themfor outfit. Vessels are more cheaply constructed now than heretofore, and this, no, doult, accounts for the numbers in contractors' hands. Some 30,000 tons are now in process of
construction here. Vessels this year have been more remunerative than for some time past, and the outlook is very fovourable. The shipping
interest generally pronises to yield good returns.
git. here was never a operations were carried on
juhn when building opere extensively that at fresent. Several large
moren and sulstantial warehouser and munerous dwell-

A correspondent at Natahwaak Village writes am
follows to the Colonial Farmer： ＂I noticed in the Telegraph ：of the 11th inst polis，N．S．，that weighed 1 lb .5 oz．This had pod me to boast of larger potatoes in this locality．
Mr．W．H．Bradley raised three potatoes of the Mr．W．H．Bradley raised three potatoes of the
early rose variety，which are now in the possesion
of the writer，that weighed respectivelly early rose variety，which are now in the possesion
of the writer，that weighed respectivelly $3 \frac{1}{2}$ lles．， 3
lbs．， $1 \frac{1}{2}$ lbs．The largest and smallest have leen lbs．， $1 \frac{1}{2}$ l lbs．The largest and
＂The potato crop is very abundant and has
never been better．C．L．Goodspeed，Eso． raised about 1,500 bushels，and H．H．Sloot，Esq．，a like quantity．Crops of every description with us
are above the average，with the exception of wheat ；the failure of this crop is attributed to the extreme heat at the time of filling．In some cases

Prince Edward Island
The Cattle Show and Exhibition，which came off in Charlottetown on Thursday and Friday of last week，was，we numerstan animals on exhibition， superior to any previous effor t in that line in the
Colony．Of horses 122 were entered，horned eattle 72 ，and 67 sherep，while pigs were out in great force， and are represented as splendid specimens of that genus．The advantage of securing improved
breeds of horses，cattle，sheep，\＆c．．，was very generally attended to in future
The Exhibition in the Drill Shod is spoken of as
being nore than ordinarily good．The exhibit in being nore than ordinarily good．The exhibit in fraits and grains were quite up to the mark．The carriages and sleighs are represented as more than
ordinarily fine．Our neighbor Mr．Hunter，brought ordinarily fine．Our neighbor Mr．Hunter，brought
down a very superior piece of workmanship in the down a very superior piece of workmanshp in ；but we do not find his name among the successful com－
petitors．It is evident，however，that if we are to petitors．It is evident，however，that in wave build－ ings erected for the occasion；as all who were present last week declared the crowded state
of the Drill Shed to be insufferable，and that many of the goods could We understand potatoes are an excellent crop Capt．Foley，of Allerton is loading the Minnie J f．for Saint Pierre，Nfld．Twenty－five cents ar the figures so far．

## Manitoba．

thir provinclal exhibition．
Winnepeg，Oct．6th， 1876.
Last Wednesday and Thursday were gala day
in the capital of the Prairie Province．
On enter ng the room the first thing that catches the ey the room．On entering the door is Class 18 － Domestic Manufactures－consisting of blankets， socks，shawls and clith；there was a very good
show in this class，especially in socks and blankets show in this class，especiall 19 －Needlework．Of this
Next we came to Class class I shall only say the display was equal in quality，if not in suantity，to the Provincial Fair
of Ontario．Miss Spencer carried off the 1st prize for wosted work，a mantelpiece cover，and it is well worthy of it．In raised Berlin work Mrs．H． Y．Hoskens takes 1 st with a piece of work which
is by far the finest in the class；；it represents an old－fashioned country family，and the expression on the faces is wonderfully well worked in．Nex
we come to Class 20 －Leather Work．In this class we especially notice two very nice sets of
harness，and a britle and sadtlle，shown by Cain \＆ Steinhoff，which carry off three prizes，a＇so one o of boots and shoes，shown by W．Wellhand．Class 21－Fine Arts．The show is as good as can be ex－
pected for a new country．Class 22 is Miscel． laneous．Cabinet work comes under this head
There are only two exhibitors；Messrs．Bishop Shelton having a black walnut parlour suit，an Messss．Garrie \＆Co．show a Turkish parlor buit，
both entered as home manufacture（that mean Manitoba）．Flour also is in this class，and is o excellent quality，being white and dry，And last，
but not least，we come to 35 lbs．of timothy hay， 3 feet long，and sown lasts spring，and I have seel Gner timothy in my travels through Manitola tha
I ever saw in Ontario．Class 13－Manuacture

The only thing worthy of mention at all was the
show of implements by Mr．Dick，who takes the diploma，as there was no competition．Class $14-$ has been hardly any theshing done yet in the
country，and the consequence is there was very country，and the consequence is there was very
little grain shown，and what was did not come more than 10 or 12 miles．The prize wheat weighed 64 lbs ．There were two very good samples of marrowfat peas，one sample of good oats．Class
15 A－Roots．This class is the head of the tree， being far ahead of what $I$ expected．There was a
Swede turnip weighing $36 \frac{1}{2}$ lbs．，but it only came in socond，as the rest in that entry were not so
good ；the list prize lot averaged 21 lbs．The lst prize white turnip weighed $19 \frac{1}{2}$ lbs．Carrots were common from $1 \frac{3}{3}$ lbs．to 24. Parsnips were com－
mon weighing 2等 lbs．There were plenty of onions men weighing $2 \frac{2}{4}$ liss．Mangolds were not at all
weighing 1 lbe each．Mat
good，the best
 361 lbs．with its outside leaves．There was a very
largo show of potatoes，chiefly Early Rose，Peerless
and Regits． and Regents； 2 lbs．was a common weight．Kohl
rabi are ahead of anything I ever saw．There were winter rery fine flavor．Citrons，which are
they had a ver very fine，being 10 inches in diameter．There was a large assortment of beets，which are very good
Class 15 B－Fruits，Preserves and Wines．There was only one sample of apples，shown by W．B．
Hall，Headingly，who carried off the greater num－ ber of prizes in this class．Class 17 －ibutter
Cheese and Honey．There was a large display of excellent butter，no doubt stimulated by the hand－
som some prizes offered（all together about $\$ 150$ ）．The
lst prize，$\$ 10$ ，for a firkin，was given by Gov．Morris．The show of cheese consisted present there is not a factory in the country，bu there is an excellent opening for one．There are
two boxes of honey，shown by Mr．Robertson Roseau River，who says that bees do very well with him．Class Live Stock．－Nothing very par
ticular to note about them．Amongst the horse there were two very nice general purpose teams and a very nice general purpose stallion．In the
cattle olass there was only one animal of note， thoroughbred yearling bull，Isabella＇s Oxford 1st by Bobinson \＆Willson，of Rock wood，he is fulle in the chest than any yearling 1 ever saw．Ther
are only one or two entries for pigs and sheep are only one or two entries or pigs and sheep．
The Director had offered very large prizes for
some small things and only small prizes for stock， some small things and only small prizes or stock
and therefore the stock is badly represented
Catte is Cattle is going to be one of the manstayse；and
vast prairie country good breeding is not encouraged it will be an im mense loss to the country．The irectors dioser great praise for their inderatigable exertions
make everything go off well，especially Mr．Stew－
art，the treasurer．
en
more about peace river，
From the Manitoba Free Press.)

A number of lealing gentlemen of the city，who
nave a lively interest in the new North－weet，we nvibed to inspeet some samples of wheat and barley atherel from fiells and gardens on the Peac
River．To say that they were interested is too mil nexpression；they were enthusiastic and wonder
truck by the simple evidences of such wondrous samples of grain from a county hitherto considered too far north for hunting purposes even．The
wheat sown was gatherod at Fort Chippewayan，on Lake Athabasca，in latitude 58, ，and isumdoubtedly
 hown in the ear，displayed five grains to the cluster，
and seventeen clusters to the ear．As two is the average of grains to the cluster in the Eastern
States，and three grains in Northern Minnesota nd Manitoba，the superiority of the Peace River cuntry for grain is apparent－the average trains
beiny five，and Prof．Macoun has noticed six grain
othe cluster．Fhis yoes to substantiate Blodyett＇ ot the cluster．This goesto substantiate the nerth－ ern limits of their growth．The barley shown was also magnificent；Mr．Gouin，a good authority，said Prof thacoun saw where it hal grown thirty ears
to a single root，twenty of which were fully ripe． He had counted a hundred graius of wheat to the
head，and fuund many numbering eighty．The
heat shown was sown on the 22 nd of May，at Gort Chippewayan，and he found it in the sheaf on to the 16 th of May．He did not see any Indian
corn，but he met a man named Shaw，（mentioned
also by Butler），who had raised ripe corn for three
years consecutively nost timely the it Profssor Macoun remarked， cultivation from which his olservations were made was only casual，desultory，and carried on chiefly
by half－breeds． A most rem
A most remarkable point was mentioned by the
Professor，，viz．，that he found arborial plants just as he left the Mountains ；proceeeding north－easterly
he saw no more，but found kinds indicating warme he saw no more，but found kinds indicating warmer
and drier climate until he turned at Athabasca Lake to come south－eastward to the Saskatchewan． This will not be wondered at，however，when it is
known，as Professor Macoun heard there，that at Fort Laird，in lat．60，the climate was considered better，and wheat was easily raised．Respecting other resources，he stated that petroleum，crysta
salt，and gypsum were seen by him in large quan salt，an
tities．
This magnificent country，which Prof．Macoun
and estimates to contain one hundred millions of acres， where wheat reaches its highest perfection，appar
ently merits greater attention than has hitherto been given to any portion of our North－west．

## British Columbia．

A gentleman in Ottawa has receivod a letter from with a party of some thirty persons to locate in British Calumbia．He says it is a splendid
country，and his neighbors have informed him that country，and his neighbors have informed him that
he can plough all winter if he wants to，as there is seldom any snow．The letter is dated the 30th of July，and was twelve days on the way．The
crops were reported as looking well．Wheat grows bout five feet in height，and the average yield urn sixy bushels to the acre．The following， eresting to many of our readers．He says ：－＂I took a farm from the Hudson Bay Company，com－ posed of 200 acres，for which I pay a rental of $\$ 100$
y year．I began to plough on the 1 st of May，and ave now fifteen acres of oats，eight acres of barley，
wo acres of potatoes，and．two acres of turnips ； was two late to plant wheat this year．They all consists of 14 cows， 2 horses，and 14 pigg．
rom the cows we make 40 pounds of butter a rom the cows we make 40 pounds of butter a when the miners come down in the winter season it sells for 60 cents a pound．Our wild bush is full of pigs ；and there are plenty of grouse and
deer．Farms can be got on the Island of Van－ couver，where we are，at \＄1，an acre；but labour
is high．Men get $\$ 30$ a month and board，right llong．Free grant land， 160 acres，can be got on
the main－land for nothing．Any man who is con－ ten main－land for nothing．Any man who is con－
tented can do well ont here．It is a splendid farm－ ing country，whale the mountans are rich with
minerals the streams are teeming with fish，and minerals；the streams are teeming with fish，and
the forests abounding with game．With the rail－ the forests abounding with game．With the rail
way it would open the country to settlement，and
many who now find their way to the Wiost many who now find their way to the Western
States would prefer to settle upon Canadian soil Sates would prefer to settle
and live under the British flag．

Feeding Fowls．
A correspondent of the Poultry Nation says My experience in feeding fowls is that medium－ gills of gran and vegetable matter each，daily，in winter，when in active laying condition；and also sumed，whether food is kept constantly before them or whether they are fed twice or thrice daily，pro－
rided they are allowed all they will eat up clean For the past two years circumstances have com pelled me to feed but twice a day－morning and before the afternoon meal，and will bolt their food ike hogs，，nd，if allowed all they will eat up clean，
are liable to overeat and become diseased in conse tuence．Then it sometimes happens that hens are not the nests to lay at the time of feeding，and can
not be coaxed off to eat，and they must either be fed on the nest or ho hungry until the next meal，
which，in coll weather，seems a little unmerciful． Hetofore I have believel in and advocated regular feeding－twice or three times cach day－for all
breeds，but my experience during the past two years inclines ne to the opinion that，unless the
smaller varieties can be fed three times a day，it is better to keep food constantly by them．

CHadem, (O) Chard amd forest.
Barberry for Hedges. Spme time since a letter of inquiry was forwarded
to me by the editor of the Farmer, with the request to me by the editor of the Farmer, with the request
that I answer the queries. Sickness has prevented
She queries are, first:that answering sooner. The queries are, first:-
my ant
Where can seed of barberry be obtained $?$ This cannot answer positively, but I think almost any
dealer in tree seeds can furnish them. The adver disements of such should be found in the Farmer. Thos. Meehan, of Germantown, Penn., I think
keeps them. Second :-How are they propagated keeps them. Second :-How are they propagated.
They may be started in nursery rows, and at the age of one or two years be transplanted to the
hedge row ; or the seed may be drilled in where the hedge is to be grown. In the last case it is
best to open a good furrow and scatter the seed
well well over the bottom of this, so that the row o plants may be some eight or ten inches wide. thick
with fine soil and they will grow. If not thick enough, cut back to the ground during the next
fall or winter, and they will thicken up. As to the cost of seel per bust
know anything about it.
The same querist also asks for information about the silver thorn. This is Eleagnus parvifolius of botanists. This plant does not have thorns proper,
but the small twigs become sharp and hard, and increase in numbers each year, and thus in a few years become a formidable barrier to all domestic animals. It is said to hand it has given entire satisfaction as to hardiness and other qualities. It well adapted for ornamental hedges on account
the beauty of both foliage and berries. It seeds the beauryy, and at a very early age, so that a few
quite freely, quants will soon furnish all the seed needed to start all the hedge desired. I know of no one who has, though perhaps dealers who advertise in the Farmer can supply them. It may be said of both the
above named plants that they are not large growers, and excepting in good soil, would hardly make such a hedge as a man would want to end moist,
tle and horses; but if the soil is rich and mey bear
they will turn any ordinary stock. They ber they will turn any ordinary stock.
pruning well, but of course do not need is do do constantly prunell to keep them within reasonable oounds. The barberline to grow beyond a fair other hand, hedge, and about all the pruning they need is th keep them in proper shape. I incline to think that "Subscriber," should he try either or
both of the above, will derive satisfaction as wel as profit from the experiment. At any rate, $h$ will gain and experience that will be or value t. himself, and, if given to the world, prolally of in
terest to the pullic.-Ohio Farmer?

The Borer.
Were it not for this intolerable, abominal,le,
curse to the apple grower, we would soon have this fruit in great ahtundance; but under existing
circumstances, there is not much danger of an over-stock.
A few days ago we were called upon to look
over an orchard of about sixty trees, planted about over an orchard of about sixty trees, pianted about
four years ago, and lately fallen into the hands of the present owner. One single tree in the whole lot was free, while all the others hiac from two to
ten or a dozen borers in them - half the trees past
tere was another instance near by where a man frone New York had thrifty young apple trees thereon, in
thousand the
which I doubt if there are one hundred of them free from tbis pest. He was surprised when we called his attention to look after them. But our duty is to call gaged the attention of every one of our readers to their own trees. Cut out all the borers, and then bank
clean fresh earth around the trees six inches high ; by spring the wounds will have calloused and stand a better chance to recover. By doing it now, the damage that the borer will do from now until the ground is frozen, is not a little. There seems but one sure remedy against them, and that is to wrap the tree with cloth or paper from under the
yround to several inches above; and this shoul bround to several inches above, and
be hegun when the tree is tirst planted. This is
against the round-lieaded borer ; the flat-headed age, that works in the trunk and limbs, will neve
head and no large limbs ever cut off ; as it don't
attack a sound place, but only spots where the attack a sound place, but only spots where the
bark has been scorched by the sun, or the dry bark around where a limb has been severed. We
will venture to say that whoever follows the plan will venture to say
last suggested, will
borer.-Rural World.

## Mixing Soil Around Truit Trees.

In disposing of the soil, which had been dug rom the founda it had been spread under the adjoining trees go, it had been spread twelve inches, and at the preasent time every tree so treated presents an un healthy appearance, which may gradually, but win nost surely, end in premature death. Mins in judicious practice shourant, as well as the careless,
hand, so that the ignorant may be forwarned of the evil consequence which
must eventually ensue. If soil must be so dismust eventually ensue. If sill must be so dis
posed of, it should be as nearly as possible ot the same texture and composition as that in which the
rees are growing, and then only to a very limited trees are growing, and then only to a very limite
depth, so as not to destroy, even for a short time, that natural porosity of the surface soil which is so largely produced by the roots themselves. In
respect to those trees which are not so easily in respect to those trees which are not so easiy any
jured by this practice, and which will bear any
reasonable amount of soil being laid over their roots, I still think the same rule in respect to th possible, adhered to, and if placed near the stem, a cavity quite round the tree, and down to the
base, should always be left, and of sufficient width to allow a free circulation of air, and also to adm of beeng cleared or accumplate in it. The sloping bank
doest
sstem answers well in some situations and has system answers well in some situations and
the advantage of showing more of the trunk, but the advantage of showing more of the that, par ticular point, or the soil be very tenacious, or
the ground be not of a thirsty nature, evils may accrue from a
The Garden.

The Forests of the World.
The forests of Europe are estimated as being
$500,000,000$ acres in extent, or about 20 per cent $500,000,000$ acres in extent, or about 20 per cent.
of the whole area of the continent. In North America it is reckoied that $1,460,000,000$ acres are covered with trees, of which $900,000,000$ are in
British North America. In South America the British North America. An es. The total amount
forests occupy $700,000,000$ acres.
for the two continents of the New World and Eufor the two continents of the New World and EuEurope, as above stated, is computed at 20 per cent.; in America 21 per cent. Supposing, there fore, 20 per cent. . to the the proportion in Asta,
Africa and Australia, the grand total of the forests of the world would cover a space of over $7,734,000$ geographical miles. The areas of State forests and woodlands are csmaten countries: Prussia, 6,200, the following European countries: FAssia, $0,2,200$, 00 acres; Austria, $2,230,000$ acres ; Haulover, 900,000 acres; Wurtemburg, 469,007 acres,
ony, 394,000 acres; England, 112,376 acres. The range in the height of trees varies from the
miniature alpine willows of a few inches in height to the stupendous Wellidgtonia, which grows to the the eucalypti often reaches a height of 450 feet i
Victoria. In Sclavonia a tree called the sap Victoria. In Sclavonia, a tree called the sapin at-
tains a height of 275 feet, and the unbrella pine tains a height of 275 feet, and the umbrella pine
of Italy 200 feet. The California lig tree is sail to of irth 96 feet.
The destruction of woods and forests, however,
very enormons, and in the majority of instance no attempts are being made for their reproduction In South Arrica, we are told, countless numbers of
beautiful forest trecs are destroyel and laid wast amnually. In New Zealand the 30 per cent.
forests existing in 1830 had sunk to 28 in 1667 , an forests in 18733, which rate of reduction, if continuel would result in the total destruction of New Zeir
land forests by 1889 . In Anerica, in the Uniteland forests by 1889. In Annerica, in the e nited
States especially, the consumption of timuber is en
ormons, and although public attention has been ornoos, and although public attention has
called to the matter, and the United states statut of March, 1875 , imposes a fine of $\$ 500$ or a year
imprisonment for wanten injury or destruction inprisomment for wantenn injur
trees, and also a fine of $\$ 200$
prisomnent for ald
prisomnent for allowing cattle to injure trees ""...
nitional grounds," the yearly consumption national grounds,
provident use of
Lund and Watu).

## Larch Bark for Protecting Trees.

 Thave used Larch bark extensively and sucess"trees in open spaces from sheep as well as from "ground game." The extra casing of bark willalso protect the trees from cattle, but these comalso protect the trees from cattle, but these com-
mit greater injury by rubbing than by nibing.
Any kidd of bark will do provided it is dead-that Any kind of bark will do provided it is dead-that
is, that it has been removed from the trees for a is, that it has been removed frum the trees for a
few months. Rabbits will not nibble dead trees few months. Rabbits will not nibble dead trees as a protector to trees by observing that while the
bark of freshly planted trees were devoured by the bark of freshly planted trees were evoured by the
vermin, the stakes which supported the said trees were never touched. I therefore enveloped the
trees with loose Larch bark and was gratitied to trees with loose Larch bark, and was gratified to
find that the rabbits were completely baffled and the stem perfectly safe. More than twenty years' experience has convinced me that this is a cheap nd perfect remedy against rabbits and sheep in-
juring the stem of trees. If those who cannot obtain bark by other means will go to any large saw-gard they will find loads of outer strips thrown to have cleared away for next to yothing. These strips carefully tied round the st $f$ ms of trees will afford thcm perfect protection against the in-
veterate, annoying, and injurious nibblings of eterate, annoying, and injurious nibbings of
rabbits and larger animals.-London Journal of Horticulture.
How Do You Make Cider Wine: This question is asked by a correspondent of the
Village Recorl ; and as it is unanswere 1 we will ndertake the task. The cider for this purpose hould not be made until December, when it
hould be barreled and placed in a vault or cool cellar, and left there until February or early in
March, when it should be bottled, using champagne bottles, well corrked and wired; ; the cork hould be driven down to an eighth of an inc Use
the mouth, so that the wire can grasp it. Use
good-sized copper wire, which will require only good-sized copper wire, which will require only
once passing over the cork, provided it is wellonce passing over the cork, provided is is wel.
secured around the neck of the botlle. Then re-
turn the bottled cider to the collar, laying the turn the bottled cider to the cellar, laying the
bottles on their sides, and it will keep for years bottles on their sides, and it will keep for years
Be sure that the bottles are thoroughly clean Be sure that the bothes are thorooge the bottl
which should be attended to just before
ing begins. Some persons- and it is the metho ing begins. Some persons-and it is the metho-
of the North Jersey "champagne" cider makersof the North Jersey "' champagne" cider makers
filter the ciiler before putting away in barrels. It inter the this removes all sediment, but we cannot
is theceive that it adds to the flavor or keeping preceive that it adds to the flavor or keeping
qualities of the cider.-Germantown Telegraph.

## The Useful Work of Insects

Insects are useful in destroying dead vegetable than animals in the same condition, and not only the soft and succulent portions, but even the solid
wood is destroyed hy them. In the immense forests of the tropics the ground would be covered, and new shoots be choked up by the ruins of trees which reguire ages to disperse without the aid of insects. But no sooner is a tree fallen than one tribe of ani-
mals cut its bark to pieces, another bores holes in mals cut its hark to pieces, another bores holes in
it in all directions, so that the moisture from dew or rain may stank, decompose anct sotenl. Others sone in to eat off the parts that are softened, and
so till it is contirely broken up and scattered, and this is done with such expectition that they will, in a few weeks, destroy and carry away the trunk of
large trees without laving a particle behind, and in places where, two or three years before, there
was a populous town, if the iuhalitants, as is fre quently the case, , have chosen to aloudon it, there
will be a very thick wood, and not a vestige of post
"IIde-Round" Trees
Trees that have long stems exposed to hot suns Tr irying winds, become what gardeners call "hide
bound." That is, the old bark becomes indurated -camot expand, and the tree suffers much in consefuence. such ane evil is usually indicated
gray lichens which feed on the decaying bark. In gray lchens which feed on the tecaying bark. In
these cases a washhing of weak lye or of lime water
is very useful; ;imleel, where the bark is healthy, is yery useful, inuleel, where the bark is healthy
it is lieneficial thus to wash the trees, as many eggs it is heneficial thus to wash the trees, as many eggs
of insects are thereby destroyed. We would, how.
ever ever, again refer to linseed oil as a wash, as far
more effective for insects, aul would, perlhaps, do conne when trees are well cultivated. It is neglect makes por growti, and poor growth, lichens.

200 varie
grapes.
Cornell's
mealy

The Centennial - The Display of Fruit. Philadeaphras, October 8.-The display of fruit
 of the States are represented. Pennsylvania has
200 varieties of apples, 42 of pears, , and only a few grapes. A comparatively new apple, known as
Corneils Fancy, has great merit is rather acid,
Corly
. mealy, of choice flavor, matures in August, and is
of high collor. Another is the Doctor; sull-acid, and matures in September. The grapes sent from
the eastern part of the state are Colncord, Clintons,
 Western Pennsylvania, the Delaw
other choice sorts have done well.
Ohio has 120 varietios of apples, 20 of pears, 25 of grapes, in charge ot the eecetary or orne state
$H$ ortienturual Society, and the display is highly creditalle. The frrst extensive e vineyards mate in this
country were in the viciuinty of Cincininati, but now


 Canada has 250 varicties of apples, 62 of pears, 14
of peaches, 27 of gripes, 8 of grapes nulter glass,








 leaxdils sol
tifully colored apple, but it is of such poor quality that it is itterly unworthy of cultivation Iow
has 342 kinds off apples $-a$ hishly crevetrable display
 city of theses states for raisidy fruit may be con
sitiereat inmense. 0 orecon disylays twelve varietie
 of epples, thirten of thuns and prines
teen of peaiss. The glaility is excellent.
 On the way. The pears of this state are unexecelled,
and they are raised without difificulty. The prapes
 the Delawares and Cataw bass raised on the is
Lake Erie do nut possess higher qualities.
New Jersees's exhibit is male by a few individuals,
presentinime extraorlinary fine specinens, the Delapresenting extranatiniary
ware grapes being almo
ner the tect.
The best show of fruit from New York is male
hy Ellwanger \& Bary, who have 155 varietise of




 strange ast it mayy sent, the Deaware is rasen in
some parts of this state hat yreat protit. Pears are
Pen some parts of this state at treat troit.
not recommentel, and lout few are raisel.
Miimesotata has 120 sonts of apyles, and one plyun
and one pear. The climate is is lold and the winters






## The Black Fungus on Apples.

 This disease has been a growing one in this coun-ry selecting for its subjects many of our most delicious varieties, and soon rendering the culture of
an affected variety unprofitable. It fastened, an affected variety unprofitable. It fastened,
many years since, on the old Newtown Pippin, one of thy years since, ong loneping varieties we ever grew,
ond rendered its culture hazardous. It drove the Fall renderen, its culture hazardous. It drove of our richest fall apples, out of degree, the Swaar, Spitzenberg, Fameuse, and other apples of the highest quality.
in its early growth, the black spots are apt to crack and early growth, the black spots are apt to crack
and the fungus follow the cracks into the core, and stop the growth of the fruit or of the side worst
affected. When it appears after the fruit is nearly grown, it does not greatly damage it for immediate
home use, but if barreled for shipping, as soon as the apples sweat, the fungus spots commence de worthless.
We have in our orchard quite a number of trees apples, and one of the worst affected by the fungus. But few years pass when they are free enough from the disease to admit of barreling, but as they fin them. This is one of the years when they are ee very interesting to know what influences have this, as well as the cause of the disease, is still wrapped in mystery, and must be classed with pea
blight, mildew, and other diseases whose cause and wre are unknown.
We have written
apple, but it also affects the pear. It has nearl variety, ont of cultivation, and has seriously threatened Flemish Beauty and even Seckel. Verily w nect much yet to fearn about the ciseases, and

Orchard Grass.
From Mr. Henderson's book on grass culture we
aull the following information with reference to orchard grass :-
It is native to America, and from its adaptability to the various soils, its early and late growth, luxuto an equality with any grass, either native or foreign, which is being cultivated in this country. Orchard grass, when sown with clover, grows rapidly, starts in the spring eable, grass to mix with
larity of habit makes a suitable it. For pasturage it is greatly to be valued, for
three reasons :-It stands drouth better than any ther grass, will bear heavier stocking, and is the very earliest to appear in spring.
Orchard
Orchard grass, ly its great amount of fibrous soil; an orchard grass sod generally turns up good dark color on being plowed. It is not at all fusocks, especially when sown thin. The proper
tusser acre ; when sown with clover, one bushel is sufficient. Perhaps there are no other two grasses tha
can be sown together with so great advantage a can be sown together with so gry their union the
red clover and orclard grass; by
crop is nearly double what it would be if each wer
 gether, come to
the clover is supported from falling by the unconmon strength of the orchard grass.

## Fruit.

Many, if not all sorts of pears, are immensel
aproved ly being subjected to a temperature $100^{2}$ for an hour or two previous to being eaten
$T o$ take the best kinds of fruit direct from the fruit To take the best moy not be half a dozen degrees abov the freezing point, is not doing justice to the fruit
or, I must add, the owner. Let any one test fruit of any good sorts of apples and pears, some "sting
ing cold"" and others artificially warmed, and note the superiority of the latter, which is to my min Superphosphate.-D. L., of Caledonia, N. Y.,
writes the Germuntown Telegraph: Many of out armers are testing superphosphate upon barle nd corn. I noticed a piece of ali wheat treatex
with it. One width of the drill with, and the nex
vithout it. The difference was plainly in faver without it,
the phosphate.

Wotes on the Garden aud farm.

Though horizontal farming is expensive of labor
and backaches, yet we are quite certain that more and backaches, yet we are quite certain that more
machine labor may be economically roof-raising. The expense of cultivation has been
the the great drawback to the extensive growing of the
turnip in this country. Yankee ingenuity ought turnip in this oountry. Yankee ingenuity ough ping and lifting from the soil for example, the English manofacturers advertise an implement
which reports says is a real labor saving machine. It is simple and ought to be cheap. Some of ou It is simple and seaght to be cheap. Mone oh im
enterprising dealers might either import the im
plement or adopt the principles involved. It serves plement or adopt the principles involved. It serves
for other roots as well. By its use 8 acres can be topped and pulled per day, requiring the labor of one man and a h horse. By cemparing several states
ments, we find the average cost of production to ments, we find the average cost of production to be
less than 20 cents per bushel. By improved less than 20 cents per bushe. By improved
methods of cultivation, and intel igent use of
manures this can doubt'ess be reduced one-ha lf manures, this can doubt'ess be reduced one-ha
It is the testimony of those who have tried it,that turnips are worth at least twenty-five cents pe bushel for fodder. In the vicinity of cities and nanufacturing villages wt have known them
ring 75 cents per bushel, and sometimes as high ring 75 cents per busho.
as $\$ 1.00$, for table use.
Canada or the Western States? - Many people will be dissatisfied with their prospects in ut the change to better their condition by a renoval from Canada to the States generally tarns out a fraud, a delusion and a snare. A short time
and a number of Germans living at Breslau, a few niles west of Guelph, took a moving fit, and nothing would satisfy them until they packed their household chattels and removed to the Western
States. They remained there two or three years, battling with the grasshoppers and drinking in
those gentle Washoe zephyrs which roll over the prairies with force enough to blow a man's hair
off, and finally came to the conclasion that Canada was the best country to live in after all. A number have returned to the vicinity of their former home, with a teeling of intense d.
of the West.-Guelph Mercury. A neighbor of mine recently informed me that by no means uncommon. A knowledge of a simple remedy would have prevented this loss. The
horse trod upon a nail, which entered his foot Lameness followed, the nail was extracted, but Lomenas spervened, resalting in death. An un-
lock jay redy in such cases is muriatic acid. If,
failing remed failing remedy in such cases as a noil is withdrawn from a horse's foot, the
when a when a naild bs held up and some muriatic acid be
foot should
poured into the wound neither lameness nor lock poured into the wound, neither lameness nor lock
jaw need be feared. Why the iron should have
W. jaw need be feared. Why the iron should have
the effect, which it frequently has, and the rationale of the above remed, I , 1 am unable to ex.
plain; but of the certainty of the counteraction of plain; but of the certainty of the counteraction of
disease by this perfectly safe application, I am well convinced.--Rural Home.
Effect of Draining an Orchard.-The Gar. dener's Chronicle once related a case of an orchard
of apples and pears, plums and cherries, which of apples and pears, plums and cherries, which
was planted in a heavy clay, trenched down to an iron pan on which it rested. For a few years the
tees grew very well, that is to say, as long as their trees grew very well, that is to say, as long as their
roots were near the surface and got the warmth of the summer's sun, but as they advianced downward the growth became small, and by degrees less and
less, till at last the trees ceased to grow, and less, , till at last the trees ceased to grow, and
nothing tlou ished except grey litchens, with which the branches soon became covered.
All coarse weeds may be removed by dropping
into the heart of each oil of vitrol. It should be applied with a stick notched round for an inch or twe at the end, the better to hold the liquid, one
dip of which will hold enough to kill three or pore plants, one drop being sufficient if the acid be good. The vitriol hisses in burning up the weeds. The sticks should not be pointed; the
bottle having a wire round it convenience of carying. It is of course needful to intrust the vitriol and its use to a careful person.
A horse, no matter how vicious and obstinate
e may be when attempts are made to shoe him, can be rendered quiet and manageable by making
him inhale, during the operation, a few drachms of the ethereal oil of parsley dropped on a handkerchief. A large number of trais of this substance
have been made with the most troublesome and and violent
fect succesB.

THE FARMER's GrinDSTONE.- No tool is more
essential on the farm than a good grindstone ; ; it is
therefore necessary that every farmer should have one, and know how to take proper care of it.
Formerly, the only grindstones used in the United Formerly, the only grindstones used in the United
States were imported from England. Then the States were imported from England. Then the
Nova Scotia stones were introduced, and found to be a great improvement on the English ones.
Ohio grin tstones then made their appearance, and Ohio grindstones then made their appearance, and are largely used by farmers throughout the West.
Last and best of all, the Lake Huron grindstones were put into the market, and they are superseding all others, as they have a fine, sharp grit, and leave
a fine edge. A grindstone should always be kept a fine edge. A grindstone should always be kept
under cover, as exposure to the sun's rays hardens the grit and injnres the frame. The stone should not run in water, or stand in water when not in
use, as this causes soft places. The water should be allowed te drip from some vessel placed above the stone, and the drip should be stopped when the stone is not in use. All greasy or rusty tools
should be cleaned before sharpened, as grease or should be cleaned before sharpened, as grease or
rust choke up the grit. The stone should be kept
perfectly round. Hamilton Times. perfectly round.-Hamilton Times.
It requires ten or twelve acres of land to sup-
ort one person on meat alone ; for one acre emport one person on meat alone ; for one acre employed in feeding cattle only prondices eive to to pounds of flesh a day to support one man if he lives on flesh alone. The quantity of land required to
keep one ox will produce an abundant supply of keep one ox will produce an abundant supply of of wheat, barley, oats, or corn, will support two or three persons ; one of potatoes or yams, enough
nourishment for nine persons ; and Humboldt estimates that an acre planted with bananas is sufficient to support fifty men.
Cost of Catrle Freight.-The firsh shipment
of cattle through by rail direct from Chicago to of cattle through by rail direct from Chicago to
Lewiston, Me., arrived att'that place one day a short time ago on the Grand Trunk Railroad. They were about six days on the way, and the cost of ford warding was about $\$ 85$ per car. The whole
expense, including care and feeding, was about $\$ 10$ per head. The cattle were taken out and fed and watered every twenty-four hours, and allowed once or twice a rest of twelve hours on the way.
They shrank sixty pounds a head, and came out in They shrank si
Our readers may have observed that when treatagement of pasture, we have laid great stress on the use of the roller, not only at the terme when should, perhaps, have been more particular when mentioning the roller to have laid stress upon its
weight. The light wooden roller so much in nse, weight. The light wooden roller so much in nse,
is for the most part, quite inefficient;; and in the case of grass land, it might as well be rolled with a quart be
Mr. Thomas Duckham, the English judye of cattle at the Centemial, who resides at Bayshan
Court, near Ross, Herefordshire, is well known a a successful farmer, but has attained greater cele-
brity as the editor of the Herl Book of Hereford Cattle. He has been visiting and is now paying auring the past week or two, and is now paying
visit to Canada, with which he expresses hinnself as highly pleased
The parsnip has many valuable qualities which
commend it to both farmer and gardener. Hogs and bullocks are fattened upon it in a very short space of time, and the flesh is considerell of superior Havor, while in cows it produces an extra-
ordinary yield of milk, having a rich color and affording butter of excellent 'quality.-Schench'
Gardener's Text Book.
Dr. Jenkins has returned from Philadelphia.
His trotting Stallion "Royal Harry" took first honors in the trotting class, over 5 years old, and
as a Roadster Stallion, he excited general admiration. The "Royal Harry," we learn, brought 1 " E. Island more into notice than did all the other
productions of the Island at the Exhibition.productions of
There are said to be $18,000 \mathrm{sq}$. miles of coal in
he Province of Nova Scotia, or alout onc-thin more than in (irent Britain, which contains 11,900 miles. The deposits probablly eyual all the coal in
Europe, hussia not includel. A yery large quiutity of shipped from the neighborhood of Cartwright, per Windsor and Lake Superior Line, to
Dounelly, at Bear Lslaud, Lake Superior.

## The §tory.

## A Proud Wife.

a story in two parts-part the second. chaptrer first-(Continued.)




"But you were not satisfied with life here, or life with me,
and you went abroad, Gilbert."
"Wi.th

 went your way alone.".
"If youn had accompaied me-"
Again I Interrupted him.
 and have marred many of those projects which without me
you have you have carried out. 1 might have ived to have heard your
Yeroaches or deriving you of the one oportunty of Inde-
pendence that had been offered you, and you would have

 "ome "' is my home, Gilbert, not yours. I have learned con-.
tenthisent within it ; leave me to its enjioyment, if you please."
 "I tell you, Gilibert, that were you dearer to me than you
have eve ben, my pride would ont tet me returno your side.
Iam glad to hear that thoure reat reth, but I cannot share those riches with one whowould not let mes enhare his hoverty. You
earneed them for yourself, not for me. You have for years diss trusted my power to be of service to you, and you have so
surely proved that ou were
more effectut, and could rise in the world
mith more effectually without my encouragement and love, that
cannot face the humiliation of that Independence which my
absence from you has Bo back to your home- 1 will have no interest in your geat
ness.". was in earnest in his efforts to make me regard less
Hernly the prospect in advance of me, but 1 resisted and kept



 Then he esized his hat and went out into the hot roadway
Thit a fierec look ulon his foco This was the meeting t


Chapter the second.
tur crisis.
I thourht tuat Gilbert would have writen to me after
awhile, rencwing, perrhaps, his wishos by letter ;or when a
 eard not from him a arain. We had chosen our selaratate paths,
and we were of stronl wills, that coull pursue then the the
end. We made
 lan who had carried forward sone successful works in thal
country where he had not carerel to take me, and who had con





 that t hat assumed, better know, than han anticipated.
saved money very fast, and 1 rrew more pale faneel and old
sushi












 the






 $\underset{\substack{\text { on inim } \\ \text { It wis } \\ \text { and }}}{ }$



















 ain











尘


quake ©ome 恐partment.

## Winter Song.

Summer is all very well, you see-
Boating , wimminn
And catching and that, And so is holding a a bat.
Some mirth's to be got when days are hot Some mirth's to be got when day
But sive us old winter for fun,
We say;
In the cold forest we hide, we hide,
In the cold forest we hice, we hide,
Armed with atoo corss bow;
Or over the take on skates we gide,
 Then, "o mini !" how the balis
No fun like a battle of sow, We say; And what do we care when the dark night comes, And we must shat the door? but thumbs,
Dowestit and mope, and bite
nid wish it were June once more? Oh, no. not we. Oh, no not we
No tree like a Christmas tree. So tree like a Christmas treé; And, oh, what a lark to cork one's facc
And dress s like an Ashautee;
And Or like an olt dame, in wiz and lace,
Coin out o cards and tea! Going out to card Sur shame,
Call Winter tane. For
No, jolly oid Winter for me,
I say No, jolly old winter for me Oh, when does tima so merrily joz,
And the hours so blithely ty As when we are round tha blazing log
And the worls are loud and high? Caln Winter slow ? Not so, not
Old Winter we jolly boys Iove, old Winter we joily boys syy,
sid winter we.jolly boys love.
 139.-Eh, gin, hit truth, p
140.- Rain I take blame.
141.--Sport for, John.
142.- Haw, line, law, we test real heresy.
Myra.

$$
\begin{aligned}
& \text { 143.-ENIGMA. things, } \\
& \text { taced all sorts of }
\end{aligned}
$$

In me are placed all sorts of things,
Coats, waistcoats, money, pins and rings; Coats, waistcoats, mone diny;
That I am useful none din Upon the coach I am rather hi
Theatre, opera, there I am The richest man in play to go
If he were to the
Do you think he would despise me ; Do you think he would dess
If you are able me to do If you are able me think Ill always come to you To take my part now this is dear
When I get one upon the ear. PUZZLE Boy.
hen 1 get one upon the ear. $P$
A town in Ireland, a city in Syria, a town in France, a river in England, a town in ined men
The initials and fiaals name two distinguished in ancient history.
145. - Firstly a vowel you will place
145. - Firstly a vowel you will place, Then something that with winter comes, Then something that with winter comes,
And next a language you will trance Not used by living tongues, My nexta a month it's plain to see,
A river now you'll please to add, A river now you'll please to add,
Then what will boys expect to be,
.

I enver nca cobense ougr ribde
Tlli oyur aveh now ym thera
151.-numerical enign

I am composed of 22 letters. $10,19,3,14$, makes them ask a question. My $22,7,5,8,18$,
either raw or cooked.
either raw or cooked.
My $1,1,20,1$ is marsh.
My $9,13,21,15,10,17,12$, is to finish.
My $9,13,21,15,10$,
My whole is an adage

## Answers to October Puzzles

15-Macbeth.





Names of Those Who Hiave Sent In Correct Answers to Oct. Puzzles. Edio $H$ Cunswers to oct. Puzzies.


 Dear Nephews
ANDNIECES, - Ihave AND NiEEES, -I ha
not heard from
many of you as many of you as
should like, how
ever, I suppose y ever, I suppose your
are all busy prepar-
ing for hoary-headed ing for hoary-headed
old oh winter, which
has shown some in. clination to be with us. The first thing
necessary before wo can enjoy our leisure
lours is to see that hours is to see that
our homes are made
warm and confortwarm and confort-
able, both for our-
selves and animals. It
is necessary to see
that our windows are fastened closely in the case-
ments. I have been at places where the windows ments. I have been at places where the windows
would rattle, rattle, every time the wind blew, would rattle, rattle, every time the wancy they feel
which is quite enough to make one fancy which, whereas a man with a hammer and a few nails, a lath or two, and a little putty, could make
the house snug and comfortable. I believe in the house snugg and comt have it under our own
thorough ventilation, but thorough ventiation, many who spend wretched
control. There are many
chen of a litte attention to wiaters simply for the want of a little attention to
such matters. We must se e that our nutside doors such matters. We must se e to lay along the bot.
fit snug, and have a sand bag to tom of the doors to prevent any draught, and it a good plan to have a damper the chimney. Yes, I keep the har i hear some of my nephews say, it take a great deal of wood to supply these stoves, so we must get our wood-hating rood, to be in readiness at any time; and when we have attended to these numerous little duties, which will add to fort, " wont we spend our winter evenings ple charms of winter life. Now, my little friends, by nex month I hope you will have time to enjo find amuse. good books and useful nour pazzles, and hope you will favor Uncle Tom, and our readers, with some of your ideas, by writing something usend on amuseing for our Christmas number. Send
some cood Xmas puzzles.
UVCLE Tom.
square words.
134. - Joins the hands to the arm ; a wanderer
the tooth of a large animal; slaves employed husbandry; a place of the meeting of spon; the
$135-$ To cry like a sheep; a large spoon
Christian name of a male; sprightly; opinion.
46.-PICTorial rebus. $\quad$ A Vermont youth at his mother's funeral said to and hope sand my father to as mach Sut some of our readers have said that many are you alu,"
 them all to send an answer to this. We also We man ; "V isitors munst not touch," says Johnny a little chromo for the first three answers. will give an easier rebus for our young nepher
and mieces next month. All answers must be received by the 20th.
147.-Riddle.

What is that which supposing its greatest breadth to be four inches, length nine inches, depth eight
48.-My first sometimes white as milk, And oft is composed of silk,
And though it's somewhat like a fable, And though it's somewhat Again its color is a sable;
To make the wonder still more rare, 've often seen it made of hair, So you'll find out without me brains ; Isy second I must now reveal, Is formed my former to conceal ;
My first and second now connect My first and second now connect
And then my charade you'll inspect.
JAs.
149.- Whole I am a kind of weel; behead and I am an extremity of an animal; twice behea and $I$ am a member liquor ; curtail and transpose my remainder and I am a term used to denote a
cal sound ; now behead and I am a vowel.
J. E. L.

150-ANagray.
Ho : ibd em ont os oson edicle
Towudl rigeve me unhe of part cal
 Second Passenger: Indeed, Sir. Well, it's very
odd no one else male any complaint before, and I've smoked it for the last three years.- " have just reached my 18th year," lisped a "1 have just reached my 18th year," lisped a.
Chicago maiden to her lover, the other evening. Just then her half grown brother happened to come in, and thoughtlessly exclaimed: "Why sisyou only 18 " You've l,een 18 ever since
you !' Of ourse the boy liod, but then the effect, you !" Of course the
"You'll never marry agnn, Susie, you grieve so
" arter Izick. Was it twice't you fainted, or three
times, at the grave", "Bless yo soul, Sary, it times, at the grave.
was free times I fainted, an' de last time I nebber was
like to come to." "Oh, Susie, you then
agin, will yer?" "Bless yo soul, Frank Dunn axt agin, will yer ?"' "Bless
me 'bout dis before my husband died, an' I promisme 'bout dis before my husband, an' I b'longs to de
ed him if he died I'd have him, church, an' I won't tell a lie.'
Overdoing itt:- Bashful Spooner (on his honey-
moon): 'Larry, my wife and I have been noticed moon) : 'Larry, my wife and 1 have been noticed
that the townspeople stare at us very hard. I hope
you haven't been telling anybody that we are newly that the townspeople stare aybody that we are newly
you haventt been telling anybor
"Me
 ordhers? Why, whinever anyboay thryed to pamp, mo Towudl rigeve me umhc ot part

## Humorous.

 A little miss, writA little miss, writing to her father on
first day of hei the first day of her enterance at board ing-school, says:-
"The first evening we had prayers, and
then singing, and a passing around of
bread, which I did reac, whichecause,
not take . bet
not being. confirmed, not being. confirmed,
I thought I had no I thought takad communion. Afterward I learned that 1
lost my supper.

## GAlmie :gatay's glepartureut.

## A Few Hints about Kitchen Work.

 My Dear Nieces, - Now that the days are getting so short, we are apt to tind ourselves all ina muddle ; particularly, if we do not manage our kitchen work judiciously. The hands may be be
broad and the arms strong, and the mind ever so broad and the arms strong, and the mind ever so
willing, yet choas will prevail in the kitchen when willing, yet choas wilp prevail One of our foremost re-
there is no head work quisites of a well ordered kitchen is a clock.
Then if we watch its hands through all our operations, and try if we can have our breakfast dishes washed and put away by such an hour ; all our
sweeping and dusting done within a certain time sweeping and dusting done within a certain time ;
our dinner prepared and ready to put oń (for $I$ our dinner prepared and ready to put on (for 1
find there is not half the trouble in cooking if we have our meat and vegetables put on to cook in good time).
to accomplish much in any pursuit. It is true that you will not always bring matters out even, but by going by a clock you can accomplish more than
you would without system. Many girls linger and you would without system. Many girs linger and to themselves, would barely get their kettles washed in readiness to put on the dinner. Of course, be-
fore breakfast and dinner, it is necessary to make sure there is plenty of water in thekettle or boiler as hot water is indispensable in dish washing.
Remember to have morning kindlings at hand, the spong set, the bisket, of clothes sprinktel and folded, the next day you find the great advantage by taking suitable forethought about your work. put your shoulders to the wheel is a good old
motto. There is no merit in being contented with motto. There is no merit in being contented with
a low, shiftless, slovenly way of living; a whole-
soone discontent which will spur one on is far bet ter. Indeed, it is a moral duty for everyone to improve their condition to the extent of their abili-
ties. Be up and doing, and make your home ties. Be up and doing, and make your home
happy.
Minnie May.

My Dear Minnie May,-Amongst your many recipes I have not noticed one for making pump-
kin pies, which, I think are very nice. 1 take pleasure in offering you mine, which I can recom it very tender in as little water as possible. When nearly done be careful. it does not burn, as it is apt
to do so. When done, drain off the water, and let the pumpkin steam or dry on the back of the stove for ten or fifteen minutes. Now mash and
rub them through a sieve. The more milk you put rub them through a sieve. The more milk you put
to it, the more eqgs you will require; and the less
milk, the less number of eggs. A quirt of rich milk to a quart of pumpkin and three or four est is a good rule. Ginger and mutmeg are my fay
orite spices, thonghmany like cinnamon and cloves. Sugar or molasses may ve pu-ed for sweeting. I use sugar in proportion of two heaping tablespoonfuls
to a pie. You must liave a very hot aven for thes pies, as it is difficult to lrown them withont. It pies, as it is difticult tis hrown them without. It
is a good rlan to heat the loutter scalding hot be-
fore puttiny into the pie. fore puttin', into the pie. Lacy sifros.
 misprinterl ginger: it should have heen whegar
Dear Minnie May, if you or iny of your nive should try this rece, e. .on will timit it inuite wamm
enough without the ginger.

Indenl beripen






BREAD CAKES.
A loaf of bread soaked in milk or milk and wattr
overnight. In the morning stir in overnight. In the morning stir in a tea-cupful of
flour, two eggs beaten till light, a small piece of flour, two eggs beaten till light, a small piece of
butter lard, a tea-spoonful of soda, and a little salt.
Mix very smooth, and drop from a spoon upon the Mix ver
griddle.
irish stew.
Take two pounds of potatoes; peel and slice
them ; cut rather more than two pounds of mutton chops, either from the loin or neck; beef, two
pounds; six large onions sliced; a slice of lim? bacon; ; a little pepper and salt. First put in layer of potatoes, then a layer of meat and onions,
sprinkle the seasoning, then a layer of potatoes, sprinkle the seasoning, then a layer of potatoes,
and again the meat and onions and seasoning; the
top top layer should be potatoes, and the vessel should be quite full; add a spoonful of mushroom catsup.
Let the whole stew for two hours ; be very careful it does not burn.
Half an heme hash
Half an ounce of gum camphor dissolved in two
quarts of hot water, one ounce of an ounce of borax. Shake well and wash your water. Use it twice a week. For hair if falling out this is particularly good. It cleanses the he
and gives to the hair a beautif ul glossy look.
spiced apples.

Eight pounds apple after it is paired and cored, four pounds of suyar, one quart of vinegar, one
ounce each of stick cinnamon and whole cloves. Boil the vinegar, sngar and spice together, then
put in the apple and boil till tender. Take out put in the apple and boil till tender. Take out
the apple and boil the syrup till thick, then pour the apple and bols.
it over the apples.
Peel and cover two pounds of acid apples, and
put them in an enamelled saucepan with one pint put them in an enamelled saucepan with one pint
of sweet cider and one pound of crushed sugar.
C Cook them by a gentle fire until the fruit is very
soft, and then squeeze it through a cullender or sieve. If not sufficiently sweet, add more sugar. It is delicious eaten with scalded cr
House-cleavivg
Pumice-stone will remove marks from h
finished walls, also from soanstone tre finished walls, also from soapstone stoves. Carin which ox gall has been mixed, or with water
and ammona, one galion of the former to one teaand anmmona, one galon of the former to one tea-
spoonfter ; nse a scrulbbing-brush and
cloth as for cleaning anpaint spoon as for cleaning , unpainted Hloors, and change
che water frequently ; before being scrubbed they the water frequently ; before being scrubbed they
should be shaken and tacked in place There is no
nicer treatment of closets where food is kept than nicer treatment of closets where food is kept than
first washing the walls with soap-suds, covering them with a coat of sizing, and over that putting
two ur three coats of pinton ceiling, walls, shelves, and lloor ; atter this washing with, sapp-suds will
make everything perfectly clean and sweet. Paint make everything perfectly clean and sweet. Paint
on the walls of a kitchen is much b, tter than kalsomine, whitewasn, or paper, since it loes not ab-
sorb outors or peel off, aud can be guickly and per fectly cleaned. Any wonan who can white-wash waslied with somp-sulds, then convered with a coat of lissolven glue, and then with paint. A hroad,
Hat brush dues the work nuickly. Hat brush dous the work quickly
The New York $I$ Itrald tells its readers how to
make cheal' and warm mittens from the skim of the shecp:
During the perion of more than thirty year
past. we have loenn aeconstomed to make chioy



 one mitten has beenc cut out. sumetimes the mit tens are made with the wool outward, and some
tines the wool is inside. When nittens are to be
tor handling woot, stone. lumlver and other thing whind are liable to wet them the leather is smear ell with a coat of coal tar, which must be dried in
hefore the firc. A coat of coal tar will pre
cloth, and it will also make the mittens wear like hemp. Apply tar only to the parts that ware like
exposed to contact with the materials to be hast exposed to cuntact with the materials to be hand
led. In lieu of sheep-skin we have sometimes em led. In lieu of sheep-skin we have sometimes em
ployed tanned calf-skin. Mittens will keep hands
much warmer than much warmer than gloves. Procure a alg gover's
needle of triangular shape, let the edges of the needle of triangular shape, let the edges of the
leather be wetted before the mittens are sewed, employ strong thread, well waxed with beeswax,
agood way to keep apples one year.
Years ago, when we produced large quantities
f fruit, we always kept app'es in excellent conof fruit, we always kept app'es in excellent con-
dition during the entire year. At a recent agri-
cultural convention in cultural convention in Uivica, N. Y., a quantity of pples were exhibitect which were plump, fresh,
and of good flavor, quite as good as the sampe kind of apples are ordinarity on the approach of spring.
The apples had been put up in refue The apples had been put up in refuse hoxes the year
previous, and in the following manner : previous, and in the following manner: A layer
of dry sawdust was sprinkled at the bottom of the of dry sawdust was sprinkled at the bottom of the
box, and then a layer of apples placed in so that
they they do not touch each other. Upon thi that
placed a layer of sawdust, and so on till the boax paced a layer of sawdust, and so on till the
was fllled. The boxes, after being packed in this
way, were placed on the wall in the cellar, up from way, were placed on the wall in the ecllar, up from
the ground, where they kept perfectly, retaining
their freshness and the the ground, where they kept perfectly, retaining
their freshness and Hlavor until brought out. $-N$.

How litrlee attentions.
How mach we might make of our family life, of blossomed into a deed! We are not now merely speaking of personal caresses. These may or not
be the lest language of affection. Many are endowed with a delicacy, a fastidiousness of physical organization, which shrinks always from too much
of these, repelled and overpowered. But there are words, and lookeks, and littleo observances, thought.
fulness, watchful little attentions, which speak of fulness, watchful little attentions, which speak of
love, which make it manifest ; and there is scarcey love, which make it manifest, and there is scarcey
a family that might not be richer in heart wealth
for for more of them. It is a mistake to supppose that
relations must, of course, love each other because relations must, of course, love each other because
they are relations. Love must be cultivated, and can be increased by judicious culture, as willd fruits can doe donble their bearing under the hand of a
mayd
gardener ; and love can dwindle and die out by negardener ; and leve can dwindle and die out by ne-
glect, as choice flower seeeds planted in poor soil grect, as choice flower s.

Remember that our will is likely to be crossed anv day, os prepare for it.
2. Everybody in the
2. Everybody in the house has an evil nature as
well as ourselves, and therefore we are not to exwect too much.
3. To learn the different temper and disposition
of each individual. of each individual.
4. To look on ea
for whom we should have arer of the family as one 5. When any good happens to any one, rejoice at it. When inclined to give an angry answer, " to
6. Whe overcome evil with good."
7. If from sickness,
pin, or infirmity we feel er8. To observe when others are sulfiering, and drop a word of kindness and sympathy suited to them. and to watch the and to put little annoyances out of evything, even
10. To take a cheedful view of of the weather, and encourace h"pe.
11. To speals kindly to the servants, to praise the mar littic things whon you can.
12. In all little pluasurs which may nevar, to put tyourself lant.
1.3 . To try for the soit answer that thirue th away
 a ventilator.
To perent iust rising from a cinpet when being
swept, sprinkle course iry salt over it. It the
 ing, woing over the work several thins. The resut
wiil be satisfactory, as it gives a fresh look to
colors dimmed by dust, and a sweetness most colors dimmed by dust, and a swectucss most
lesiralle. Ile consiler salt far aheal of tea grounds or a wet broom, in cleansing a husty
carpet. The salt can le gatherel ny, ater it has
served its pupos, and with the dust an be cast served its purpose, and with the dust an be cast
into the asparagnishel. As asparagus requires salt intu, the asparaytis hel. As asparagus require
for food, we "kill two birds with one stone."



New Granges
5i30, Abingdon, WeW Gilliam Prarkson, Master, Abingdon ;
Williams, Secretany, Abingdon.
division granges.


## Additional Correspondence.

Sir, - In reply to the enquiry from I. M. T., of
Strathroy, as to the use of superphosphates on sandy soil, I leg to say that I have used $3 \frac{1}{2}$ tons
during the last two years, principally on sandy loam, with satisfactury results.
For my hoe cerpis, which csmsists of carrots, cah-
 and harrowear way.
in the ortinary way.
For grain 1 sowed some 200 punds broakeast. For grain I sowed some 200 pund
My hoe crop hasbseen most excellent, and I comsisider
my money well repaid in the extra crop and comparative fre ulom from weets. yard manure for renovathing land, laut if the land is
not too sandy to yield some sort not too sandy to yield some sort of a crop as it is,
there would be little risk in venturing say half a
then ton of superphosphate next year as an experiment.
My lanil is good and would have promised a faip My land is good and would have promisect a faid
crop without the use of superphosphates. I nsel
the lowest grade of the Brock ville Superphossphate the lowest
Company.
R. T. R.

Barton, Oct. 17, 1876.
Sir,- - Can you furnish a plan of a building for
aving human excrements, which will be cheap and aving human excrements, which will be cheap, and
usily built; for I ma convinced that much is lost to the farmer in this one manure alone that woul pay a grood percentage had he a suitable thinding [Au ordinary privy can with very little expense
be utilized for the purnose ly doyng away with the be utilized tor the purpme hy dong atay wind
vanlt, and inserting on the evel oi the surface
drawer, as it is in an article of furniture. An strong elose joined box will ansser the purpose It should occupy the whove space under the seat in
width and length, not in height. Put a little dry
earth in the drawer before using, and each time after using it ; remove the contents as often as ne
cessary say weekly, to in pit, and keep) it covere cessary, say weekly, to a pit, and keep it coverer
with earth. The accunulation is a great fertilizer generally called pondrette. The dry earth is a goo Ev.]
but that condiments of various kinds are highly a vantageous in fattening stock. our Canadian farmers. As yet only the most en terprising are trying them, and find great benefit trom their use. For particulars and price of De
yonshire Cattle Food, see adyt. of John Lumber in another column.

Reports of the Barley Crop and Stock in Hand.
The barley crop of Canada has, within a few years, become of such importance that the interest great staple of our agricultural products. The barley crop of this season has been light, but the growers of it, as far as we have been able to ascer tain, have less ground for complaining than the growers of wheat. The following report must, rom the great extent and acreage of the cultiva tion of barley, be of interest to our readers. The Montreal Gazette gives the return of the barley crop of Canada, comprising reports from 103 points, of which 52 were average, 38 below in 1875 , of which 54 werage, against 97 reports and 42 above averag
The New York Produce Exchange Weekly of a late date stated the visible supply of barley from
New York is 562,829 bushels, a acainst 132,214 bushels at the corresponding date in 1875. It also says that Mr. R. H. Lawder has made a tour of inspection of the barley crop in Canada and north ern counties of New York. He finds the area sown with barley somewhat larger than in 1875, and the yield less. He aggregates the deficiency this year as compared with last, fully five million bushels, and of the out-turn of the crop this year he estimates that one-quarter of the barley in Canada and New York is so thin and light in weight as to the excess of thalt held from Philadelphi the two and a half millions more in 1876 than in 1875, thus estimating the surplus stock equal to the deficiency in produce.

Rumor of Epizeotic in London Township.
We have a report circulated in some papers that there has appeared in the southerin part of London
township a disease of a most peculiar character among horses. We have made every enquiry ; we have consulted three veterinaries among others, and they state that there is not to their knowlelge any disease of an infections nature-uothing, in fact, to afford ground for the rumor.

## Well Done for Camada.

 Sixty-eight horses were sent to the Contennialshow from this Dominion. Of these fifty-two took prizes, and thirteen were sold. One span of geld
ings brought $\$ 1,500 \mathrm{in}$ gold. . Since the exhilition Ings broug the fruit show has taken place there;
of horses,
and in speaking of the display made in this deand in speaking of the display made in this de
partment, the New York Graphic says:- "Prob ably the finest show of fruits is made by the Fruit arowers Association of Ontario." The sathe
jourual adrls - "The present display occupies the and is composed of 100 plates of apples, 200 plate of plums 200 plates of pears, 90 plates of crab apples, 29 varities of peaches, 103 plates of grapes off silver medals for plums, but also a number of prizes for apples and pears. For Shorthorns th prices offered were such as would not be accepted.
After the exhibition of sheep some Euggish lots were offered for sale, but the prices offered were lower th
fairs.
The for $\longrightarrow$
The flax crop has yielded well this season, while
an almost all others there has been a deficiency The cultivation of this crop has been continuously ancreasing. $\$ 700,000$ in seed and fibre.

We have received communications from Messrs
A. Gray, F. Malcolm, and C. E. Gardener, whic A. Gray, F. Malcolm, and . E.
will be inserted in our next issue.


## Molsons Bank.

At the annual meeting of the above institution, held report of the the a most satisfactory and encouragfter the usual past yearis's business was read, and ebts, paying two dividends of 4 per cent., the
est was increased by $\$ 40,000$, and a balance re nained to the credit of profit and loss account of 10,169.98. Considering the hard times and the numerous business reverses of the past year, the
nanagement are to be congratulated on their success. The Molsons Bank is one of the most liberal
onetary institutions in the Dominion to the farm ng community, and an increasell share of our gricultural banking business should attend their uccess and liberality. We are pleased to hea soll-the headquarters of our great cheese interests.

Mr. William Watson, of New York, has pur Canada, the Ayrshire heifers Lilly and Amelia, to gether with the bull calf General Montgomery. These animals attracted mach attention at the Cen tennial,
exhibit.
Messrs. John Snell \& Sons, Edmonton, Canada and three sows from the herd of Mr. Heber Humfrey, of Berkshire, England. The pigs from Eng land Oct. 5. Messrs. Snell have also recentiy four sisters, "The Four Belles of Shelton," from the
herd of Mr. Edward Tombs, of Shelton, Uxon, herd of Mr. Edward Tombs, of Shelton, Uxon,
England, which are said to be extra good ones. This makes nine imported sows added to the Wilow Lodge herd in the last four months, besides At the head of the herd as a breeding boar is Sir Enclanter, Cardiff, winner of five first prizes in England, and use for three years with
ciss int the hard of Mr. Heber Humfrey.
(e) ommerctial.




The produce markets have lost all the elasticity proluceu by
the warlike news from Europee and have laysesid into compari-





 Grains per steanier and iron cl pher to Li
cuicigo wakkers.





 Con
Bect
Ren $2+v^{2}=+$ $24=$

