IRECTORY.

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n. Breeder of Galloway icester Sheep and Berk-

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, P. Q, Importers and nster, Breeder of Devon

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Breeder of Short Horns, igs, Southdown and Lei-

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Bowmanville, Importer pred Devon Cattle 11-1y.

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ans Farm, Montreal, tle, Clydesdale Horses, ligs, and Leicester Sheep. 11-1y

ERSE, Bellville, Breed-l Ayrshire Cattle. 11-1y

eder of Galloway Cattle.

eeder and Importer of Hoises, Southdown and and Berkshire Pigs. tby Ontario. 11-1y

'ha." Brougham P. O.

otswold Sneep, improved laie Horses. 11-1y.

, Breeder of Leicester

O., Breeder of Ayrshire

S. Edmonton, Breeders eicester and Cotswold rkshire Pigs. Winner of for the best Bull and five al Exhibition, Kingston, 11-tf.

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оскмоня, Galt P. O., Leicester Sheep and 71-10

of Lincoln and Leicester pgs. Puslinch Township, 71-11

t Juan, Hyde Park P. O., ttle, Leicester Sheep and 11-tf.

on, Importer and Breeder Essex Swine. 11-71

, Breeder of Short Horn 11-71

cattle.

LONDON, ONT., NOVEMBER, 1872.

\$1 Per Annum, Postage Prepaid. }
Office—Dundas St., Opp. City Hotel. }

NO. 11.

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ORCHARD AND FOREST:

anstead, breeder of pure MISCELLANEOUS: Head, Breeder of Short Berkshire and Chester 72-3-y m Farm, Oshawa, Breeder

FOR THE ADVOCATE.

## The Provincial Exhibition of '72.

It has been a grand success, both financially and beneficially, considering the extreme turbulent political feelings that have been agitating the country, and which, we much regret, show more signs of a stronger interference than has yet been felt in regard to the Provincial Exhibition and political agricultural affairs of the country generally.

A most important subject was broached to us while on the ground by one or more gentlemen holding positions of importance in the country. It was the plan of centering the Exhibition in some locality. At the annual meeting of the delegates to 164 the Exhibition, held in the Court House, in Hamilton, it was attempted to pass a resolution to have the Exhibition permanently established near Toronto. view this attempt to centre it as detrimental to the interests of agriculture, and could not refrain from making some remarks against such a course. The question has yet to be brought up for consideration. At the next annual meeting for the election of officers and delegates of the different agricultural societies, it would be well to have this question brought before the various meetings, and enable the farmers to send such delegates as would 167 ambulating as heretofore, or shall its influence and utility be extended to other soil. The farmers of the country should first prizes in Great Britain, but such was soil. The farmers of the country should sections, such as Ottawa, Guelph, &c., or be consulted on such matters as is of most The Concord Grapes. 167
Plentifuluess of Fruit 167
Potash for Peach Trees. 167 would it be best to have it at one place? We believe the delegates from this city, if elected as they have hitherto been, would most assuredly vote for its centralization in Toronto, because this city is the place where the plan of establishing the Mimico Farm originated: that farm was to have - the permanent establish been . a avincial Exhibition, and an ment of of this city was to have had inhabit control of the farm. establishment of the farm was hurriedly passed thro he the Legislature, without the due consideration it should have had, The whole affair was got up for the benefit of one individual. We are not

> Farm from its commencement better than any one, and are prepared to convince any one of the correctness of our views when a proper time arrives. If the a mers wish for an Experimen-170 tal, Test or Educational Farm, they will and independent readers of the Canadian

among the magnificent prize animals around the main arena of the Exhibition, headed by a plain, sturdy Canadian farmer, who had never passed through any collegiate course. We may mark this as a rarity, but such it ought to be. A plain, practical man should be at the head of our agricultural affairs. You may depend upon it that in nine cases out of ten the plain farmers know what is or what would be most to the interest of agriculture far better than those who have been educated in the colleges, and whose attention is more wrapt up in political influences, which is pretty sure to engulf nearly the whole of the aspirants to position, thus sacrificing all to political ends.

Let us all strive, if possible, to build up the Provincial Agricultural Exhibition and all other agricultural institutions,

irrespective of party feelings.

Much may be said in favor of a Government Educational, Test and Experimental Farm; much may also be said against a Government enacting laws for the purpose of suppressing private enterprise and adopting plans undertaken by private individuals, on which they have expended large sums, and by which they have been

doing good service to the country. We still hope that the Government will the farmers of Canada. They will have to pay all the costs, as the revenue of all tain first prizes. There was one animal importance to them. cities have great influence; the most influential speakers come from the cities, and a great effort is being made to centre more

influence, wealth and power near Toronto. We strongly oppose the annihilation or centralization of the Provincial Agricultural Exhibition.

The Board of Agriculture and Arts and the delegates acted wisely in voting for the Exhibition to be held in London next year, not because Ottawa or Guelph have not just and fair claims for it, but because it will tend to allay the feeling of discord and rivalry that has arisen through political influences between the Provincial Association and some of the controllers of the speaking imaginatively; we know the foundation and objects of this Mimico Western Fair.

There is and has been a greater power at work to make the Western Fair what it has been, than the mere directorship of it.

Whatever the results may be, we, on be half of the largest number of unbiassed Youth's Department:

Uncle Tom's Column

Uncle Tom's Column

Lit was a pleasing sight to see the Government of the general and company walking to carry on the Farm, let them pay for it.

| Exhibition centered, neither do they desire to be taxed for the support of the sire to be taxed for the sire to be taxed for the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the support of the sire to be taxed for the sire to be taxed for th

The farmers do not want it, as it must be supported by a continual tax, directly or indirectly, of some hundreds of thousands annually, and will, as it has already done, tend to check private enterprise.

## THE STOCK DEPARTMENT.

We should weary our readers if we were to describe half what we observed in regard to the merits of each animal or class of animals. The horse department showed a marked indication of improvement. The heavy draught class appear to be drawing much more attention than the blooded horses, and, we think, deservedly so. There is more real wealth for the country in heavy draught horses than in the blooded class. The roadsters and carriage horses made a fine display and were a credit to our country. Blooded stock was not largely exhibited, nor is there as much said about them now as there was some years ago. The display of Durham cattle has never been excelled or equalled in Canada, the

competition for prizes being very keen, and giving a great deal of labor to the judges to decide which to award the prizes to, there being so many really superior animals to be judged. We do not con-demn the decision of the judges, although there are some who feel aggrieved, and they were awarded nothing at our Exhibi-This shows the high standard of our We would like to see a greater list of premiums in this very valuable class; perhaps it might be well if the directors were to add a supplementary list of prizes at lower figures for breeders that have never gained a Prince of Wales prize, or even for those who have never gained prizes before in the Durham class, or taken prizes over \$200, more or less. We suggest such a course to encourage the small beginners, who are now a numerous class, and who would like to exhibit, but know well they are unable to compete against the old established breeders or the long purses of our importers. This plan, we should think, could be beneficially carried into the Leicester and Cotswold classes of sheep, as there is a very strong competition in these classes and very few small breeders or beginners will bring out their stock to compete against the large breeders and importers. These beginners need encouragement; many we know have tal, Test or Educational Farm, they will and independent the state of the stablish such amongst themselves, if the desire to have the Provincial Agricultural attempted to gain prizes, but feel disdesire to have the Provincial Agricultural attempted to gain prizes, but feel disdesire to have the Provincial Agricultural press, say that they do not have the prizes carbon the state of the prizes carbon the

Mr. P. Rennie, of Fergus, exhibited some grade cattle that were quite equal to many Durhams exhibited, and superior to half that are in the country, excepting pedigree. Ayrshire cattle were not as numerous as at Kingston, nor did they surpass those exhibited in that place in regard to quality, we mean the principal prize-takers. Kingston there was a good show of Alderney cattle; there were none to be seen at Hamilton.

The sheep pens were well filled with rime stock. Mr. Gibson's imported Linprime stock. colns attracted great attention. The pigs and poultry showed no marked difference from our usual Provincial Exhibitions.

## THE INTERIOR OF THE PALACE

did not appear as well filled as we have We presume this was caused by the addition that has been erected for fruits, flowers, &c. The roots and fruits made no better display than on previons occasions, although some new varieties may have been added. Neither the roots or cereals were as good as we have seen them; the dryness of the season was undoubtedly the cause of this.

The prize of \$50 was awarded to Mr. Arnold for his Hybrid Wheat. We understand it was awarded more as an encouragement to cause others to improve, and as an acknowledgment to Mr. Arnold for his exertions, than for the real merit of the grain itself, as it appears very doubtful it it possesses any remarkable qualities or advantages over other wheats. If it should prove to be of value to the country, Mr. Arnold would deserve a great reward from our Legislature. As it is, we believe he has commenced a plan of hybridizing that may be the means of producing some useful results, and as the introducer of such plans he is deserving of encouragement.

Mr. Fleming, for the Association, pre sented us with a small quantity of fall Fife Wheat, which was grown at Saddie British Columbia. This is the largest and plumpest wheat we have seen. It surpasses our samples of Australian and Cali formian wheat; it is also the first fall wheat of that kind we have seen, in fact, we were not aware that there was a fall Fife Wheat. We have put a few grains into the hands of several parties to try, and report to us on it, and we retain a sample for our show windows, which any one may see by calling at the Emporium.

In the implement department the display was deserving of attention. Many improvements have been made, and some new implements were exhibited. foremost among the most valuable laborsaving implements was Carter's Open Ditcher, an implement that is destined to come into use as soon as it is known. Auother valuable labor-saving implement was a new device of a wind-mill adapted to pumping water and doing various other kinds of work on a farm. This also will come into use where much pumping has to be done. It may be applied for sawing, threshing, grinding, chaff-cutting, &c. They will soon be found on some farms. But what surprised us more than anything else among the implements was a small, simple turnip cutter, that will cut two bushels of turnips in a minute. Its inventor, Mr. Forfar, claims that as its capacity. However, when its work was shown by actual test. it was awarded the first prize over the celebrated Gardener Machines. Perhaps the lowness of the price might have induced the judges to look favorably on the machine, as it only costs \$6.

There was a novel attachment for reaping machines, but time must tell if it is superior to the present apparently perfect machines. McPherson, Glasgow & Co., of Fingal, carried off the lion's share of prizes for their threshing machines.

We only treat on the different classes are saying so much on the Exhibitions in a that better motives prevail.

general and what we deem more important manner, we fear we shall occupy too much space on the subject, as other departments of the paper must have some attention.

## The Western Fair.

So much has been said in praise of this institution that we cannot express ourselves candidly without giving offence to some, still, however much we may desire the success of our local Exhibition and local affairs, we feel it our duty to speak openly in regard to it.

The posters and printing done for it excelled that done for the Provincial Association, and the decorations of the city also excelled the decorations at Hamilton. An agricultural or political ball was got up for the occasion.

Our new and highly respected Governor, Lord Dufferin, and suite attended the Exhibition, which, as on such state occasions, drew a very large crowd from all parts of the surrounding country to show their loyalty and respect to our Queen. The sale of tickets was greatly increased by this course. The Exhibition financially was a grand success. We are apt to judge too much of the real utility of anything by the immediate cash returns.

Now to the Exhibition in an agricultural point of view. But few blooded or heavy draught horses were to be seen, but in the road and carriage class the entries were numerous, and a lot of good animals were to be found. In cattle, the show did not come up to our expectations, and would have been inferior had not Messrs. Stone Snell and Wood come forward with their herds; we have to thank these gentlemen for their aid in making the show of cattle what it was. Col. Taylor, of Westminster, exhibited some valuable stock, and Mr. G. Smith, of McGillivray, exhi pited two very fine Durham bulls, which claim some Booth blood. This section is celebrated for its sheep,

and in this department the Exhibition was good. Implements were pretty well represented. The palace was creditably filled; grain was not as well represented as it ought to have been; the show of fruit was good.

In the carriage department the display excelled either of the other Exhibitions and great credit is claimed by some because in the root and carriage departments this Fair excelled the Provincial; these two classes are but small items in an Exhibition to make such a great talk about. Some of the first-prize roots were beaten at a Township Show held since.

The Western Fair may always be a good exhibition. There is a large and wealthy country to support it, but other shows will spring up around it, the political feeling will subside, and the main object will be gained or lost before another Western Fair The directors have labored hard and faithfully, without pay, and, as far as the Western Fair is concerned, it will lose a great charm as soon as political feelings are allayed. We must admit that as far as the number of entries and the amount of money received goes, it has been a suc-We know the President and many of his aids to be gentlemen.

A majority of the inhabitants of this city and many in some of the surrounding townships, at the present time, think we are wrong in our views, and some have done their utmost to check us. We only ask for a fair, open discussion, and many will be at once convinced of the correctness of our views, and in a few years our bitterest opponents will say we have been fighting for a right cause, and will regret the hostile steps they have taken against our views. If we are erring, and are doing an injury to any class or section, our pages are open for others to condemn us. We try and write for the country, not for section or party.

We have always, we confess, looked on this Western Fair with suspicion that it was designed by its originators as an auxiliary to the Mimico Farm, and a rival to very briefly, and some not at all. As we the Provincial Exhibition. May we hope

### The Central Exhibition.

The Central Exhibition held at Guelph was a grand success, both in regard to the financial receipts and the general display of stock, implements, grain, roots, &c.-The various departments of the arts and manufactures in the main building were well filled.

There are a few things in connection with this Exhibition that are deserving of particular notice; one is the great patronage bestowed on it by the ladies. have no hesitation in saying that a larger proportion of ladies attended this Exhibition than either the Provincial or Western Fair. The competition for prizes for arts and manufactures in the ladies' department was very keen. The display of butter, in quantity and appearance, excelled that at either of the other Exhibitions .-It was undoubtedly the largest display we have yet noticed, and the quality was very

In the grain department we noticed a variety of wheat not exhibited at either of the other Exhibitions. It is a variety of spring wheat that is succeeding well, on which we shall treat at some future time. The different varieties of turnips were

named, and prizes given to each variety this we consider a great improvement over the other Exhibitions. Why should not the varieties of turnips receive prizes as well as each variety of apples? We think them as important.

We think Guelph stands pre-eminent as the leading main centre for the improvement of stock and of good farming. This Central Exhibition stands on as safe and sure a foundation as either the Provincial Exhibition or Western Fair. The stock of Guelph will draw the leading American and Canadian purchasers. The stock department was one of the most important. We heard complaints this year while

there that the Exhibition occupied too much valuable time, and that it would be better to reduce the number of days. We think it would be advantageous to do so.

## The Catarrh, or Horse Disease.

This disease has spread over our country at a rapid rate. It appears to be an epidemic apparently passing through the air, as horses are attacked by it whether they are in the proximity of other horses or not. It is very similar to a severe cold or influenza in the human species; some are attacked but lightly, others the disease has a greater hold on. It comes on with a cough, and in a few days the horse discharges largely and continuously from the nostrils, breathes hard, and appears very We think there is no prevention. sick. Death may result if animals are overdriven, heated and exposed to cold or rain afterwards; but Nature is the best restorer. The horse does not work as freely as he is wont to do; he says, "Rest me, or work me lightly, and I will be well We do not approve of heavy again." doses of medicine; light doses and very mild treatment may do good; but we can see but very little, if any, difference in the horses that have been drugged and those that are allowed to be cured by nature, and whether they are worked lightly or rested entirely, the disease will have its course, and will cure itself. Some persons have been greatly alarmed, and consider the animals require to be drugged, blistered, steamed, purged, stimulated or reduced; but those that are cared for most appear about as long in recovering as those that receive very little attention. The worst to be dreaded about this disease is, that some will work their horses in such a manner as they ought not to do. Other diseases will most probably follow, that may be dangerous and contageous.

This or a similar disease swept over this part of the country about seventeen years ago. It was in the spring of the year horses could then run on the grass, and soon got over it, but a railway contractor's horses in this city that worked through the disease were taken with glanders; of the W. G. & B. Railway, awaiting other instances were known, and death to completion of the road to be shipped.

horses, and, in one instance, to the owner, followed from glanders.

About forty years ago a similar disease pread over some parts of Great Britain. Glanders and death followed; some farmers turned from working their farms with horses to the labor of the ox. We do not think there is any cause for alarm from the present disease; time will cure it, but perhaps a stricter law might with advantage be enforced in regard to horses that have the glanders; they should be shot, or the owners compelled to keep them on their own premises in a stable; or, if in a field, it should not be one by a live fence, but entirely surrounded by his own land.

The country is now becoming supplied with veterinary surgeons, that know if a horse has the glanders or not; each of our cities have veterinary surgeons; no glandered horse should be allowed to travel in the public road.

## Agricultural Polities.

We withheld important remarks in regard to our agricultural policy during the time of the great excitement of the elections, at which time every remark was sought for that might tend to turn the balance of power. Our desire has been to build up the agricultural interest irrespective of either party. You may all admit that this paper should be maintained for agricultural purposes only, but there are very few, if any, that can imagine the difficulty of such a course. In fact, it appears now to us almost impossible. Political interests have greater weight

and draw more money than agricultural interests. We hope that at the next session of Parliament the questions at issue in regard to agriculture may be discussed without party interest being placed before agricultural interest. Many will condemn us as being political and serving party. Our party has been the agricultural interest, and no fair or honest man can gainsay it if they have read our publication from its commencement.

## The Importing of Farm Stock by the Provincial Government. \_The Model Farm.

The Markham Economist charges us with "attempting to prove that the Government is doing a great injustice to the stock breeders and importers in Ontario by establishing a Model Farm." In the article referred to there is not a sentence against the establishment of that Farm.-This is a subject for future consideration. on which we are at issue with the Government is this :--We maintain that their becoming stock importers would be opposed to true principles of political economy, and to the plain dictates of justice that should characterize the mutual relations of a Government and the members of the community. Nor is it the importing and raising of a few cattle of he very best breeds, as is now said in palliation of wrong doing-it is the importing of stock "as a means to all farmers of securing the best stock."

Nor was it from any observations made at the meeting of the Farmers' Club that we learned the intentions of the Government. The Minister of Agriculture was our authority—no mean authority on the subject. The palliating excuses put forward amount to an acknowledgment of the error of the project, to give it the mildest name.

In re-publishing from the Economist the report of the Farmers' Club meeting, we had no wish or expectation that it should be thought to be from our reporter. We having received the paper, handed it to our printers, expecting that the usual credit would be given. It was omitted, unintentionally, we believe.—As'r. ED.

There is an immense amount of lumber piled on the route of the Southern extension of the W. G. & B. Railway, awaiting the

Provinc GENTLEMEN,

The Presi

One year s this, we enjoy the address o that time app past! then v the point far gatherings h brought into citizens of the which, I beli the manufac minion. Our Fairs

and when I present occa chanics and the talent a their variou lection, have feel proud, they are co that nationa we may just in the future We have kind and be peace and p in the early localities to

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work a-day ties farm man felt.

### ADVOCATE FARMER'S

## The President's Address at the fail to appreciate our indebtedness for both shall have a skilful veterinary surgeon in every Provincial Exhibition, 1872.

One year since, on an occasion similar to this, we enjoyed the privilege of listening to the address of my predecessor. How short that time appears when looking back into the past! then we were assembled at Kingston, the point farthest east at which these annual gatherings have as yet been held; now, brought into direct communication with the citizens of this ambitious City of Hamilton, which, I believe, deservedly ranks first among the manufacturing centres of our vast Do-

Our Fairs here have ever proved a success and when I look over our grounds on the present occasion, I feel that the farmers, mechanics and others, who have lent their aid in the talent and ability displayed by each, in their various contributions to this vast collection, have indeed something of which to feel proud, and may well rest assured that they are contributing to the building up of that national prosperity and greatness to which we may justly look as the boast of our posterity in the future.

We have great cause of thankfulness to a kind and beneficent Providence for continued peace and prosperity; and although the drouth in the early summer affected the crops in some localities to a considerable extent, and the west has suffered severely from the ravages of the Colorado potato beetle, which has now become one of the worst enemies with which we have to contend, yet the labor of the present year generally has proved productive and remunerative to the husbandman, so that we have plenty, and to spare; and all are blessed with ample means to provide the necessities and comforts of a home.

The cultivation of Flax is increasing in extent, and is marked with decided success. so that those who have advocated its introduction have every reason to anticipate that it will soon rank among our staple productions.

As our country becomes more opened up, we see the greater necessity of providing green food for our stock (particularly cattle during the summer months), when the grass has become parched and dried up by the hot weather; the experiment of sowing broadcast or thickly drilling Indian corn at different times during the season, so as to be cut and fed to them. have been tried with success, and is likely to prove a great boon to the dairyman.

The results of our labors for a short twelve month have been brought together, and openly exposed to view, and let those who see be judges of the fertility of this fair Province of Ontario, and of the ability of her sons in yet forming the nucleus of one of the strongholds forming the nucleus of one of the strongholds of the British Empire, or, if need should arise (which I pray may never occur), of forming the centre of a great and prosperous Independent Nationality. Our motto is "Defence—not defiance;" and, as was said by my predecessor, "although ready on any and every occasion to resist oppression, we have nothing to gain from, nor do we desire an aggressive policy." Our aim is to promote the peace and goodwill, the wealth, intelligence and happiness of nations.

and happiness of nations. The drainage now being carried on in the Western Peninsula, by opening up the natural watercourses, and in some cases cutting artificial ones, is producing a marked and growing effect. Lands which heretofore were totally unfit for cultivation, and worthless, with the exception of a small growth of wild grass for pasture, are rapidly being brought under the influence of the plough, and are found to be the most fertile, productive and remunerative; thus amply rewarding the proprietor or tenant for any costs he may have incurred in their

production. In looking over the past few years, I cannot but observe the many changes through which we have passed, and are passing. One of the principal of these is in the manner employed in carrying on the operations of the farm. He who hires farm laborers now can seldom obtain native born young Canadians or Americans-farmers' sons bred up on their fathers' farms and at home in all the minutize of farming; such as were the hired men on our farms a few years ago. Nor is it any less difficult in most years ago. Nor is it any less difficult in mose sections of the Province to obtain a farmer's daughter as the "hired girl," either for house "work or dairy. To obtain skilled labor now-a-days, is in fact one of the greatest difficultation. ties to be contended with in carrying on a Fortunate indeed is it for us that so many labor-saving machines were introduced, before this great want had become so much

individual and national prosperity to the strong arms and stout hearts of our foreign immigration, but that class of laborers require a long and patient teaching before they are capable of managing our machines or handling our teams, or of understanding our system of farming generally; yet these men are apt to expect the wages of our first-class Canadians. Besides, as a general rule, unmarried men of that class are unsettled in their habits, roving, and with no local ties to bind them, ready to leave for trifling causes, or small inducements of higher wages.

The question is becoming serious, but how is it to be avoided?

The most feasible system appears to be that of encouraging the employment of married men, and building suitable places fon the premises in which they and their families can reside; thus they become permanently settled, and feel that they have a home of their own; their interest becomes more and more ideatified with ours, and our influence is more directly brought to bear upon them and their growing families, so that they much more rapidly develop into Canadians and citizens. By this means they not only board themselves, but we can frequently avail ourselves of the much needed household assistance, thereby also relieving our over-taxed wives and daughters.

If such a system were generally introduced, I believe all parties, and especially the aborer, would be better satisfied and permanently

benefitted. Another very pleasing change is found in the constant improvement which is taking place in the country. The dense forest is fast giving way, and where only a few years since the hardy pioneer could with difficulty find the means to furnish a scanty subsistence, we now find the thrifty farmer, with his land cleared and well tilled, his humble dwelling replaced by one more suited to his present wants and comforts, his outbuildings being renewed or extended to meet the requirements of his increasing stock, which is every year becoming more valuable by importations and direct crosses with pure blood; his orchards, now approaching maturity, supply every want with the choicest varieties of fruit, and he begins to think the pleasure derived from looking at a few shade or ornamental trees will amply reward him for the care and cost of providing them. In short, he just begins to feel a self-respect and independence, which more properly belongs to his than any other calling.

There is another change which, though not productive of emotions of pleasure, yet de-mands more than a passing notice. I refer to the growing aversion exhibited by many of our young men and boys to honest manly toil, the tendency to leave the farm for the whirl and excitement of the city, the uncertainties of the professional or commercial

The very term "Commerce" seems to carry with it a kind of spell, and they forget that it is rarely one in a hundred who succeeds in his speculations and accumulates a fortune. Yet, some agency or patent right, in short, anything that demands travel or produces excitement, has a fascination for the young man that seems irresistible; and we frequently meet sound, able-bodied young men peddling the country with some simp'e little contrivance with an energy that would have done honor to a better cause.

Commercial pursuits are over-valued, because they lie more upon the surface and are open to observation; but he who is successful has often, nay, always, to toil and labor far more unceasingly than the agriculturist. This can only be counteracted by making

some p easant to them, and so educating them that work on the farm shall not be considered mere drudgery, but an intelligent use of the resources of nature. Nowhere else do intelligence and taste so readily ripen the conception of the mind in o utility and beauty. Go to the towns and cities, and you will find that a large majority of those who went there as country boys, instead of achieving wealth and fame, have attained to less than they would have enjoyed had they followed their agricultural pursuits, and many are rapidly sinking into the lowest depths of degradation and misery.

I have very great pleasure in being able to say that the "Ontario Veterinary College" is being carried on with much success, and is increasing in number and popularity. During the past winter the number of students attending its lectures was upwards of fifty, and at felt.

I do not wish it to be understood that I prospect is, therefore, that in a short time we fession.

part of the Province on whom to depend in

every case of emergency.

The grant to the Entomological Society is still continued with favorable results.

Financially, we are in a sound, healthy and prosperous condition, and notwithstanding the ery great falling off in our receipts at the Fair last year, from that of the previous year, amounting to several thousands of dollars, yet we were able to pay all our habilities and report a reliable ba ancein the hands of the Treasurer With regard to the Denison matters, I have

much pleasure in being able to say that a considerable portion has already been paid in and the balance is amply secured by mortgage on real estate, which has increased fifty per cent in value since the security was taken.

It has been suggested that so grand an opportunity for discussion on agricultural topics as is afforded by the meeting of so many delegates and judges, all leading agriculturists from different parts of the Province, should not be lost; and although the members of the Council might not be able to attend, owing to pressure of other business at that peculiar ime, yet a meeting might be organized. different topics of discussion selected, and such discussion form a leading feature of our future exhibitions.

## Epizootic Influenza.

The following letter by D. McEachran, Consulting Veterinary Surgeon to the Council of Agriculture, P.Q., is of some importance, and the position of the writer justifies full confidence in his statements:-

SIR,-Seeing the epidemic among horses is rapidly spreading, and even now prevails to such an extent that it is impossible they can all have proper professional attention, I have felt it my duty to the public to offer the following hints as to the management of the disease:

It is indicated by dullness more or less, the pulse is quick and weak, extremities cold, the breathing quick, a very deep, hacking cough, the lining membrane of the eyes and nose of a yellowish tinge, the throat is swollen and sore internally, consequently he swallows with great difficulty, and in many cases refuses food. There is in most cases a discharge of adhesive brownish yellow matter from both nostrils, and in many cases it is coughed up in lumps from the throat. Weakness is one of the earliest and most prominent symptoms. In most of the stables they have taken it almost simultaneously.

The principles of treatment will consist, in the first place, of thoroughly ventilating and cleaning the stables, and sprinkling the floor with carbolic acid powder, (much better than solution). Keep the animals warmly clothed, but keep the stable cool, without draughts; give them no dry food, especially oats; linseed tea, oatmeal gruel, boiled oats, bran mash, carrots, apples and bread, will be found the most nourishing articles to offer them. They should be encouraged to drink as much linseed tea as possible, and if they should refuse all food, they must be drenched with either the tea or oatmeal gruel. In this disease mild timulants and vegetable tonics should be given early, of which cinchona bark and gentian are the best.

I have found that the Sulphite of Soda in half ounce doses given three times a day, with gruel, has marked effects both in preventing and modifying the attacks. The throat should be mildly blistered, and, if the lungs become affected, the sides of the chest also. It is of the greatest importance that they be kept from wet or cold; the owner will study his own interests by keeping them from work, especially in cold, damp weather. So long as they continue to feed well and the weather is fine they may be worked moderately, with blankets under the harness.

These remarks refer merely to the disease generally, each case presents its own special peculiarities, and requires special prescription, of which the qualified practitioner is best able to judge; but as it is next to impossible to visit and prescribe for the last examination fifteen candidates were remarks may not only be of use to the awarded the Diploma of the Board. The public, but of service in relieving the pro-

## Agriculture.

VALUE OF STRAW TO FEED STOCK.

The report of the meeting of the Blandford Farmers' Club, which we give beneath from an English paper, will be interesting to our readers. The opinion of the several speakers as to the value of straw for feeding stock I can fully corroborate, having used it for that purpose for many years in the old country. I found my pure-bred Durham cattle as well as grades throve well on it, with the addition of a feed of mangolds, turnips, cabbages, or rape twice a day during the winter season. The cattle were kept perfectly clean, and fed regularly, and care was taken to have the straw as fresh as possible, and free from any taint or foul smell; and they were, when turning out on pasture, about the 12th of May, in good order.—As.'T ED.]

At one of the meetings of the Blandford Farmers' Club, Mr. J. Ford said:—"Farmers were obliged to partly feed their beasts and sheep with straw; necessity had driven them to do what they had never done before. I must say I have not been depending so much on hay as many of you have. I have thought for a very long time that hay was some of the dearest food we fed with. What I mean about her being expensive food is this. about hay being expensive food is this: I have known many farmers pinch their sheep by keeping them short of food during the months of April and May, all for the sake of having a great stock of hay for the next winter. I think it more to our advantage to be a little more liberal with our clover and rye-grass in the spring, to improve our sheep after the winter is over, and not think so much about the hayricks for the next winter. I think it likely there is not one of you that makes use of so little hay as I do, according to the quantity of stock I keep. I have a notion that if we pay a little more attention to straw-feeding we can keep our stock so as to make it answer our purposes better than to depend so much on hay. We can winter our store beasts well with a liberal allowance of any straw, and a little addition of a few pounds of cake or corn per day for each beast, instead of keeping them on hay. I have for many years past cut my oats rather green, perhaps I may say a week before some people would say they were fit to cut; but I think the crop that is cut at that stage is the most valuable, taking both corn and straw into consideration. In cutting the oats before they are quite ripe we save all the best oats that would perhaps fall out if allowed to get ripe before cutting; and should there be a few under-ripe corns that the threshing machine would not take out, the straw would be none the worse for it. I also like to cut my wheat rather gay. find by so doing I get a good bold sample, and I find the millers like it better, and the straw is of more value for feeding. I say the same with wheat as I said of oats -we do not get so much prime corn shed out in the fields as we should if we allowed it to be full ripe before cutting. The barley we are obliged to let stand and get ripe before cutting, so as to have, or try to have, it fit for malting. I last year wintered my little Southdown tegs with roots and straw, and have done the same many times before. They ate the straw very well, and were certainly in very good store order. Try your improved Hampshires; see how they like it, if they will eat it. I think it better than to depend so much on hay. Many people, I find, are cutting a great quantity of straw into chaff and mixing corn or cake with it to rub through the winter. For my own part I object to having so much cut; let them have a small quantity of chaff with the cake or corn that you give them; let toem have a sufficient quantity of straw next to impossible to visit and prescribe for all the cases at present, I hope the above remarks may not only be of use to the public, but of service in relieving the property of service in relieving the service in reli never think of giving them hay, but I cut

ince, to the owner, o a similar disease

of Great Britain. lowed; some farmg their farms with the ox. We do not use for alarm from me will cure it. but might with advan-gard to horses that ey should be shot, or to keep them on a stable; or, if in a one by a live fence, nd by his own land. becoming supplied ons, that know if a or not; each of our

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tant remarks in real policy during the eitement of the elece every remark was ht tend to turn the our desire has been to ltural interest irresty. You may all adshould be maintained poses only, but there that can imagine the course. In fact, it most impossible.

have greater weight ney than agricultural that at the next sesthe questions at issue ure may be discussed st being placed before st. Many will conpolitical and serving as been the agricultufair or honest man ey have read our pubmencement.

of Farm Stock by al Government. odel Farm.

Economist charges us to prove that the Gova great injustice to the importers in Ontario Model Farm." In the here is not a sentence hment of that Farm .r future consideration. which we are at issue nt is this :-We maincoming stock importers o true principles of pod to the plain dictates hould characterize the a Government and the mmunity. Nor is it the sing of a few cattle of ls, as is now said in paloing-it is the importmeans to all farmers of took."

any observations made the Farmers' Club that tentions of the Governster of Agriculture was mean authority on the liating excuses put foran acknowledgment of project, to give it the

from the Economist the ners' Club meeting, we pectation that it should rom our reporter. We the paper, handed it to thing that the usual creven. It was omitted, e believe.—As'T. ED.

nense amount of lumber of the Southern extension 3. Railway, awaiting the road to be shipped. bushel of mangel per day for each beast, and mix it up with about the same quantity of chaff, having one day's food prepared and mixed beforehand; it heats a little, it softens the chaff, and the beasts are very fond of it, and they generally keep in good health and fatten fast. It behoves us to be careful of our straw. If we have more one season than we require, by all means let us thatch it; I have often found sheep and beasts prefer old straw to new. When I pulped the mangels and mixed them with chaff the beasts ate it better than when given whole.-Mr. Homer quite agreed in giving only a small quantity of chaff, mixed with meal or other food, believing that animals did better with the wheat the next, and barley straw the lowest bulk of the straw; and this was reasonable when they considered the formation of the animals' mouths, which were adapted for masticating their food. He had used a great deal of straw this year, and kept a great quantity of stock, and they had got on very well. He gave his sheep straw in the troughs the early part of the season, and afterwards gave them chaff mixed with other food. Mr. H. Richard had found that animals fed upon cake and straw did remarkably well. The only thing with regard to straw was its harshness, to reduce which he understood that a machine had been invented, and was in use for crushing the straw, and this plan. he believed, would be far better than using chaff, for if straw was cut into such small pieces, it was somewhat difficult for the animal to get hold of them. He had not given straw to sheep, but he knew of one gentleman who gave his sheep straw and limited capacity. hay cut into chaff, with a pint of malt dust mixed with it, and the animals were in first-rate condition. -Mr. C. Fowler stated that some years ago he had a large field of beans partially blighted, and finding it no good as corn, he got an engine, and had the whole bruised as much as possible. The engine stripped off the leaf and pods, which the animals ate, but would not eat the stalk. He then cut some up as chaff, and mixed it with malt-dust and turnip, and the cattle improved upon it. He was of opinion that the straw was too dry for the animals, and that in bean-haulm there was very little proof. He was of the same opinion as Mr. Ford with respect to the advantage of cutting oats and wheat gav. The reason was that the moisture was retained in it. A short time ago he went to Lord Portman's, where he saw a machine at work bruising gorse. When it came out it was reduced to a pulp, and was in a wet state, and the cattle ate it readily. believed that gorse would be found a valuable substitute for hay.-Mr. T. Fry said he thought they had trusted too much to the hay crop, and if the corn crops were cut earlier it would be better. Wheat to the hay crop, and if the corn crops were cut earlier it would be better. Wheat straw, he was of opinion, was not so palatable to animals as oats or barley, because it was too flinty. When he cut his oats this year early his man remonstrated with him, but he told him he was going to adopt Mr. Ford's plan-cut the oats green, and let them stand in aisle some time, and he congratulated himself that by so acting he had a first-rate crop, his oats weighing 9 score 16 nett. He had been feeding his ewes on barley straw at night, and hay in the morning, and was surprised to see how they throve upon it. He gave them as much straw as they could eat. His horses had been eating chaff, and chaff alone, but he had picked up a good idea that evening, and would not continue that plan. The first part of the year he began with oats—six bags of oats mixed with chaff, which the animals did well upon. They then had wheat straw, but would not eat it, and this was, he believed, because it was too cutting to the mouth. He then returned to oat straw mixed with meal, and from his experience he was perfectly satisfied that farmers would do more with straw as an article of food for their cattle than they ever had; and though he would like to

straw into chaff, and pulp up about one Galpin) said he had never used straw as food for sheep until he looked over his neighbor's (Mr. Ford's) hedge, and saw that his sheep were eating and improving upon it. He gave his dairy cows and stock cake and straw, and was perfectly satisfied with them. Professor Voelcker some time ago wrote an article in the Royal Agricultural Journal on the use of straw for feeding pur poses, and the practical experience of all who had spoken that evening fully confirmed his views, viz., that the straw cut green was the most nutritious. He also gave an analysis, which showed that oat-straw was the most nutritious of all straws. The r sult of the Professor's researches proved that pea-haulm was the most nutritious, oats next, then pea-pods, bean-straw next,

FARMS AND FARMING IN GREAT BRITAIN.

At a recent meeting of the American Institute Farmers' Club, Dr. J. V. C. Smith stated the results of his observations while in Europe, as follows :-

As we pass rapidly through the best parts of Ireland the amount of land devoted clusively to grass is a peculiar feature. considered to grass is a pecuniar feature. The present season the hay crop appeared to me to be remarkably heavy. We rarely see on our best fields such a heavy growth of grass. It may not be so considered by those who manage them, but the thick appearance of the grass, its succulent and tender fibre, gave me an impression that it must be both sweet and very pression that it must be both sweet and very nutritious. The humidity of the climate and a lower temperature than with us must con-tribute essentially to such properties. Barns are an unknown convenience in Ireland, Scotland, Wales, or England. We rarely see any building for storing hay or protecting stoc much larger than a one-story stable of very

"Hay is invariably stacked, each pyramid being thatched, as a general rule, with straw I was repeatedly assured that when three and four years old such hay is considered infinitely improved and always more valuable, having lost none of its essential elements by long atmospheric exposure. It is carefully cut down perpendicularly and fed out without waste.— Al fences in the kingdom, with few exceptions, are hawthorn hedges. Fields are usually are hawthorn hedges. Fields are usually small compared with our own, and what is small compared with our own, and what is particularly observable, hedges once set are rarely removed, and, consequently, the form and dimensions of fields remain the same for a long while. It is probable that the length of leases through three or more lives conduces to that stability of field demarcations. Deep ditches on one side of the hedge render the fence more difficult to pass, while the earth at first thrown out gives elevation to the thick, almost impassable wall. almost impassable wall.

"Throughout Scotland and England the tillable land is more closely seeded than with us. Instead of hi ls, potatoes, beets, turnips, and a enstead of m is, potatoes, beets, turnips, and a variety of ve etables are sown in rows very near together. Weeding is admirably conducted. The plants alone are permitted to feed on the soil. As soon as one crop is out of the way another of some sort that may be useful, even late as it may be in the season, for cattle food is introducted. We cultivate power land tivation, but better nurtured, and therefore more profitable. Fertilizers of every possible description are very carefully preserved. We waste, or allow to be wasted, what an English farmer would carefully co'lect as a precious

"You see extensive fields of beets in England They are raised for feeding cattle, and so are turnips—thousands of bushels to our ten. The fact is established that the sugars they contain are superior to many of the grains we deem all are superior to many of the grains we deem all important in the production of rich milk, or fat, rich beef. It would be presumptuous in tat, rich beef. It would be presumptuous in me to suggest they are right and our farmers wrong here in the Middle States, where corn with shallows are the states of the s raising is a laborious pursuit, even with shall low ploughing. In coursing over Great Britain we are all struck with the immense culture of trees. They are eash articles, and ever will be for kinding coal fires, if no higher purpo e were contemplated. We are cutting and hacking them down as though they encumbered the ing them down as though they encumbered the ground. Every range of fence with us, as with them, should be studded with trees. It should be a spring and autumn duty to extend their transplantation. Our farmers ought to have it impressed upon them that such labor wou dyield a harvest in the future far exceeding their expectations by laborious efforts with uncertain crops, whose value must always vary in certain crops, whose value must always vary in volume and value upon the contingencies of the weather. Trees grow tall regardless of seasons. They are a sure crop. Another observable fea-ture in land culture that contrasts s'rongly have a nice rick or two of hay just now, he should not in future sacrifice his stock because he had not enough in the spring. but should use straw,—The chairman (Mr.

farm horse is a sort of menster for anatomical build and strength. With very large feet, immensely enlarged in appearance, with shaggy hair growing in profusion from their knees to the margin of their hoof, their strength is really prodigious. Of course they rarely move beyond a walk, and are consequently in vigor-ous health and their powers of endurance un-

IMPROVING THE UNDER-SOIL.

Our land should be mellow under where i mes in contact with the lower roots as well as in the seed bed. The roots want space to luxuriate. We aim at a mellow surface; we shou'd aim at a mellow under soil. fallow will give us a garden in any soil, thoroughly worked at the proper time; and we see what fallows and gardens and such soils are. The best root crop- a piece of carrots—we ever knew was one where the mellow soil was turned down deep (the plow running to the beam), richness and looseness of soil below the beam), richness and looseness of soil below for the roots to do their work in. The soil turned d wn was rich; had received a coat of horse manure, and was well saturated with its substance. Is is below where the work goes on—if you let it; otherwise the roots must be confined to the surface, which, in a drought, will be too dry, and will soon have its substance absorbed. A deep, rich under-soil will also keep moisture the longer heave the set. also keep moisture the longer, hence the sci for a dry time. The air will reach it, which is another benefit; it will plow the better; will measurably drain itself.

By turning down in the fall a rich, mellow clay soil, bringing up the raw harsh ground, by wring there will be a pretty mellow surface Manure applied, and this harrowed in with the grain, there is a chance for an excellent crop. Corn on such land will do; s will roots; so will clover; and the grasses will flourish exceed ingly; they will strike their ros downwards, and the mellow soil (be'ow) will stand in lieu of cultivation, and will retain moi-ture. For grass it is believed deep cultivation is not necessary—one of the greatest errors in farm ing. Who ever saw a poor crop of grass on a deep, rich, finely cultivated sail? This never fails where there is plenty of seed used It is the soil for wheat—this deep, rich, undercultur preventing water from standing and souring the land during the winter, and from heaving

in the spring.

We are afraid to turn down our mellow soils, We are afraid to turn down our mellow soils, especially to turn it down deep and bring up loose mellow; we prefer to keep it where we can see it, and put our seed in. But it is wrong; turn it down. Then cultivate and prepare the top soil. Now is a good time to do this, and apply our manure as it is made, spreading it as it is applied. We want some manured soil brought un and worked upon by nanured soil brought up and worked upon by the elements and manure. The spring will the elements and manure. The spring will tind such a fine mellow bed (with a correspond-ing soil below) that it will do one good to work ing son below) that it will do one good to work it; the evidence of its success is on the face of it. We would not advise the plow torun twelve inches when the land is accu-tomed to but six: plow eight inches. This will enable the top cultivation to mix some of the old soil with the

cultivation to mix some of the old soil with the new, and the manure influencing/both.

Thus far we have not used the subsoil plow which, in addition, is a great aid. The lower soil well loosened, it will be benefited for years: and the deepening the culture thereafter may be done with less work, and more profit, as the soil is less raw having been somewhat worked upon by the air and rain water. But never work the subsoil when wet. - Prairie Farmer.

## SOILING CATTLE.

Mr. George E. Waring, the excellent manager of Ogden Farm, at N wport, R. I., U. S. lays down the following programme for a herd of twelve cows :-1. Earl, the previous autumn, sow three

acres of winter rye, to be cut the next spring from May 15 to June 15.

2. Early in April, sow two acres in oats, to be cut from June 12 to July 1.

be cut from June 12 to July 1.

3. Late in April, sow two acres in oats or barley, to be cut from July 1 to July 15.

4. Early in May, sow two acres of oats or barley, to be cut from July 15 to August 10.

5. Middle of May sow two acres of oats or barley to be cut from August 19 to Sept. 1.

6. Middle of June replant plot No. 1 with corn which is to be cut from September 1 to corn, which is to be cut from September 1 to

September 20. 7. Early in July re-sow plot No. 2 with bar ley, to be cut from September 20 until roots and cabbages come in, which is usually Oct. 1 to 15.

8. In September three acres of plots 4 and 5 are to be sown in winter rye for the next spring's use.

Mr. Waring's experience demonstrates two

general principles:

1st. The earliest abundant food will be secured by the use of winter rye.

2nd. The best and most abundant food for the later summer and earlier autumn time will

be secured by the use of Indian corn. Josiah Quincey's method of soiling is as fol-

May 20 to July 1st, feed cut fodder from early clover, rye or orchard grass.

July 1 to 31, cut from oat field which was

Sown in April.

August 1 to 31, feed sown corn, planted from May 1 every ten days.

September 1 to 30, re-cut the oats on field No. 1; also feed one acre late corn, sown in

June, every ten days.
October to November, feed tops of vege-

After December to next May, feed hay and

roots, mixed and finely cut or cooked.

Lucerne is most valuable for soiling. quires no re-seeding every year. The first year it yields two crops—June and September; in succeeding years it will yield four crops each season—June, July, August and September about a ton per acre from each mowing. Most of its nourishment comes from the atmosphere; hence it is an enriching crop as a green

The following will be found a good practical schedule for a hera of cows. For green food during summer sow—

1 acre early rye the previous fall. 1 acre early oats.

acre sowed corn, May 1; re-sown Aug. 15. 1 acre cabbages.

4 acres lucerne. 2 acres sugar beets and mangels. 2 acres sugar beets and mangers.

For winter food, cut hay from ten acres of clover or timothy, and r. ots from three to five acres additional. As the grout discomes more and more rich the feeding capacity of each acre will be increased, and in time doubled so that twenty acres can easily maintain twelve to fifteen head the year r und. Al the man-

## ure made must be returned as a top-dressing. THOUGHTS ON FOREIGN FARMING. I know of no more suggestive material for

American farming experiment than that: fford-American raining ed by the well digested results of agriculture in England, France, Belgium and Germany. And although the rub i hed records of these fail to g ve the same accurate idea of the modus operandi that would be afforded by practical experience, careful reasoning with reference to the peculiarities of tillage in this country would, in so res of instances, render the data thus obtained of rare and peculiar value. Perhaps an example of this may be found in the difference, advocated by some English writers, to be observed in Leving on Levinsh writers, to be observed in laying or lapping for rows, according to the kind of crop to be raised or the character of the growth under c leiva ion.

Where grain is to be sown, especially if the land is seeded down to grass, the furnows are aid flat, the edge of one shutting pass the edges of contiguous ones; the complete inversion of smooth surface, but a lso effectually burying all refuse, e.c., that grew upon the top. On the refuse, e.c., that grew upon the top. On the other hard where vegetables are to be grown and a more pulverulent condition o t e mold is desired, the furrows are lapped and lie at an is desired, the lurrows are lapted and he at an angle tran versely, in ab ut forty-five degrees. The former plan, in our comparatively hot, cry climate, will most lasten the decomposition of vegetable matter in the soil, and should, therefore, be adopted on lands possessed of much organic matter or on those with a heavy subble or not Rut light soil, containing lands. much organic matter or on those with a heavy stubble or p. But light soils containing less than, say, five percent, of humus would profit by a slower decay, and the lapp diffurous would be found to elest. One method that, abroad gives excellent results is that of lapping in the autume, one furrow flat on top, of an equal width of land, the stubble, whether of reas or orall height buried between the two rass or grai, being buried b-tween the two in a state very favorable to decomp stion, and also to the early surface crainage of the field in sprng. Whe the "lands" and r the furrows spring. Whe the lands and rithe furrows are plowed in their turn, a thorough disintegration of the mold is produced. It is laid down as a kind of axiom that the best plowing is done when the depth of the furrowis one-half of its width, thefu row turning the mot rea il w en width the full row turning the most real il when of these proportions. Another mean, from the utilization of which many a field and garden might be made to yield with far greater abundance, is found in the practice of using burned clay for sheep bedding, which, from its absorbent power, say at the liquid manure, constituting thirteen-fourteenths of the while, which is commonly wasted. The clay is burned to brick dust, of which a wheel-b-rrow lead a swers once for twenty-sheep. In finglind the enty-seven bishes burned costs six pence. The manure privided by its use has the pecunitity of being suitable for either light or heavy E ity of being suitable for either light or heavy soils, inasmuch as it increases tenacity and moisture, retaining properties of the former and mechanically lightens and loosens the latter; in either case, contributing, of curse; the ammoniac I and other elements of fertility con-

ammoniac I and other elements of fertility contained in the sheep manure.

While speaking of fer idizers, I may dilate a little upon the chemical experiments that during the past four years have been in de with a view of obtaining potash from refractory substances like feddspar. The simple pulverization of feddspar, it is said, brings it to a condition in which its notash will so why leach out under of tendspar, it is said, orings it to a constituent in which its potash will slowly leach but under the action of water in the soil. But the extreme hardness of feldspathic rock makes the crushing to a fine powder too costly for practicel a opti n. Recourse has, therefore, been had to the chemical action of lime, which replaces potash in its combinations, and, therefore, sets it fre should be fresh ac ion will be s cla, linds while this cou try a liperate the pot trials having al the potash can wet condition, Reasoning 1 would prove ac as es, which h by ordinary le ly to yield to

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HOW MUCH P Some years to farm. I was of fat ening he different p ans pork a barrei e doored en ar hogs and put three of the s five pounds. six hogs. The average gain hogs in the lo fa tened in the One in the pe others were n F These h gs when slaught of October. snow during gave the ho ould not ha favorable; the

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gels. from ten acres of from three to five a d becomes more capacity of each time doubled so maintain twelve A 1 the man Al the man-

N FARMING. stive material for t than that: fforddes of agriculture in and Germany. records of these idea of the modus rded by practical with reference to in this country, render the data culiar value. Pere English writers, lapping forrows, to be raised or the under c hiva ion., especial y if the the furrows are ting pass the edges y lete inversion of smooth or hearly ctually burying all the top. On the ndition of temold apped and lie at an t forty-hve degrees.

comparatively en the decomposithe soil, and should lands po sessed of those with a heavy oil containing less humus would | rofit he lasp d furrows One method that, lts is that of lapl ing flat on top, of an tubble, whether of d b-tween the two decomp sition, and ainage of the field in thor ugh disintegra-ed. It is laid down best plowing is done wit one-half of its omo trea il w en otier itim, from the a field and garden h far greater abundce of using bur ed ich, from its absorof the whole, which clay is burned to wheel-b rrow lead heep In inglind ned costs six pence. Is use has the pecuni-either light or heavy

and loosens the latter; ing, of c urse; the ments of fercility conzers, I may dilate a the iments that dure been m de with a from refractory subsimple pulverization gs it to a condition owly leach out under soil. But the exthic rock makes the has, therefore, been of lime, which reinations, and, there-

reases tenacity and

ties of the former

fore, sets it free. For this purpose the lime should be freshly burned, and its beneficial ac ion will be seen in the amelioration of h avy cla, linds which contain much fell-par. Ir this cou try a similar means may be taken to liberate the potash from he green sand maris; trials having shown that about two per cent. of the potash can be set free by digesting, in a wet condition, with quick-lime for a few days.

Reasoning by analogy, the same method would prove advantageous with leached wood as es, which have much potach not extracted by ordinary leading, but which would be likely to yield to caustic ime kept in the presence of moisture. - Prairie Farmer.

HOW MUCH PORK WILL A BUSHEL OF CORN MAKE?

Some years ago, when I was just beginning to farm, I was desirous of knowing the best wa of fat ening hogs, and I determined to try the different p ans and also to ascertain how much pork a barrel of corn would make. I made a floored len and c vere lit in; weighed three hogs and put them in the pen. I also weighed three of the same size and put them in a dry lot—average weight one hundred and seventy. five pounds. I fed six barrels of corn to he six hogs. They were forty days eating the corn, with a plenty of sait and wa er. Their average gain was seventy-five pounds. The I fed six barrels of corn to he hogs in the lot gained the most. One that was fa tened in the lot gained eighty-eight pounds One in the pen gain d ighty four pounds; the others were not s, thrifty.

These hogs were about fourteen months old when slaughtered. I put them up to the 25th of October. There was a good deal of sleet and snow during the month of November, which gave the hops in the pen an advantage they would not have had if the weather had been favorable; they were each fed on the same quality of grain. It also shows that one bushel of corn will make fifteen pounds of pork, and that the six barrels of corn made eleven dollars and twe my-five cents worth of pork, at two and one-half cents per pound; and that the farmer gets twelve and one-half cents for his labor of feeding per hushel, over selling at twenty-five cents pe bushel. Hogs will fatten faster in September and October than they will in colder weather.

in colder weather.

Another very important question or inquiry suggests itself from he foregoing, and that is, What is it worth to raise hogs to the average weight of one nundred a discentively pounds? It may be ifficult to determine the ex ct value of the grass clover and grain fiel is that the hogs feed on while growing to a gross weight of one hundred and seventy-five or two hundred pounds, but with these assistants I can raise a hog to weigh one hundred and sever ty-five pennds and over, with one barrel of corn. It will be seen from these estimates that two barrels of corn, with the advantage of grass, clover and grain fields, will produce about two hundred pounds of net park to two hundred

and fifty pounds gross Hogs do best in large fields, with p'enty of Hogs do best in large fields, with p'enty of water, and the farmer who cuts up his corn in the months of Sept mber and October, a d hauls it out on his fields, will be imply paid for his labor in the improvement of his land, from the stalks and manure of hogs. It is a great saving of labor to turn the hogs in the field when the quantity of hogs and the size of the field suit. —Cor. Ohio Farmer.

## Agricultural Items.

STUDY YOUR SOIL.—Mr. T. Gniwits, of Montgomery County, N.Y., makes the following judicious remarks on a very important subject to farmers, which we copy from the N.Y. Tribune :-

"The importance, the absolute necessity, of an intimate knowledge of one's own land is a matter not sufficiently considered. Analysis may aid, but chief dependence must be placed on experience and experiments, extending often through a long series of years. Our most successful farmer hereabout is fully impressed with this idea. He has been occupying the same land since 1830, and to his careful observation each season reveals new secrets of his soil, and the influence of climate, &c. He is intelligent, and experience is the lamp by which his feet are guided. He made well, being in the same locality, he givethe new acquisitions similar treatment, and in a few years they are like the rest. The treatment is entirely different from that it plowed deeper, the manure all kept at the surface, and grass and clover are grown. Where drainage is necessary, it is

done at once. Corn is grown and so managed that it is always a good crop. Heavy sod is selected and the proper soil, with treatment according. Now and then wheat is raised, and sometimes peas. Sometimes winter wheat follows a heavy crop of peas, the peas leaving the land in a rich, mellow condition. Sometimes the fallow is resorted to, as when a newly-purchased piece requires cleaning. Here is success of a high order-perhaps the highest, when we consider profit on the investment. This man knows nothing of the science of farming as popularly taught; he has his own science gathered from his own experience, the science of his locality. To move to another place, with soil and climate different, and apply the same treatment, would be injudicious. The knowledge of the locality must first be acquired, and that can only be done by experience, taking time. The same products are not grown, or not to the same extent; different management is required. And so, not only ten different localities suggest each its treatment, but the same farm and even the same field will often vary, and that not untrequently with apparently the same quality of soil. There is a secret, particularly as it affects the quality of produce, notably the grape and tobacco, that is yet to be traced. Test alone will determine this. Our scientific and practical men are the best farmers, but only when they are thoroughly practical as well as versed in theory. Practice must be the first-first in importance—as it embraces the local tacts not otherwise obtained. It can be aided by theory, and that decidedly. Bu it will be only aid, as books are an aid to the thinking man, not the whole of the main thing, as they are so often made."

NEW DRAINING PLOW .- Recurring to the su ject of plowing I am led to mention a new drawing plow lately invented in England, which seems good in theory, as far as it goes, but which will require some additional imrovements to make it fulfill all the conditions of a successful invention. It is described as comprising a series of plows placed one behind the other, and arranged in the same vertical plane, but at increasing depths below the surface of the ground, so that each plow may cut off its own horizontal slice of the required thickness." Te trouble with the apparatus will be found in making the soil rise on the plows to the surface and out latterly to the ground at the edges of the ditch (without increasing inordinately the length of the machine), as the earth can hard y be forced up an inc ine of more than twenty-three degrees by the simple forward motion of the plows.

Some mechonical device to aid the upward and backward movement is required, and it is to be hoped may be provided; for there are few improvements mo e needed in American few improvements mo e needed in American farming, than cheap and simple means of making drains. It may be remarked, with reference to agricultural machinery, many inventions of foreign origin have a direct bearing on some of the more extensive branches of faming here. As for example, an Australian harvesting and threshing maaina brancht out a year or two since, and c ine, brought out a year or two since, and designed for the same purpose as several harvesters of Californian origin, namely, of "heading" standing grain, threshing the heads, and winnowing and sacking the grain. It differed f om the latter in combing off the heads by a kind of metal ic comb, instead of severing them by the vibratory movement of a harvester sickle. In the operation of the last ment oned device a somewhat audacious idea has been suggested in Eng and, and, if I remember rightly, patented in that country. It is to attach the connecting rod of a small steam engine direct to the sickle or cutter of a reaping machine, thereby getting power enough to cut a swath twelve or fifteen feet wide, the strength of the horses attached has been adding by purchase to the original acres until now he has a large area of land, all alike good. Knowing the land well being in the same locality be given. which noxious gases are generated by chemical means, and which has a fan-wheel worked by hand to force the gases out in a tream through a pipe. By thrusting the nozz'e of the pipe in a rabbit hole the animal is quickly driven

to the profit of the farmers in some cases. and the delight of the boys in al! .- J. A. Whitney,

New York. LONGEVITY OF FARMERS.—The difference of longevity among the members of the endmark vecations is, if we can rely upon statistics, very marked. Dr. Farr, the accomplished Registrar-General of England, to whom we are largely indebted for information in relation to the laws of health and sanitary progress, has, in his Fourteenth Report, given the world the result of his labors. Of the ordinary occupations he makes twelve classes, viz. : - Tailors : shee makers; farmers and graziers; carrenters and joiners; butchers; manufacturers of wool. cotton and silk; bakers and confectioners hotel keepers; grocers; miners; labourers (agricultural and otherwise), and blacksmiths. Of all these classes, farmers were found to be, on the whole, the longest livers, although, strange as it may seem, the mortality among young farmers was, between the ages of twenty-five and thirty-five, higher than the mortality among laborers of higher than the mortality among laborers at corresponding ages. The classes among which the heaviest rate of mortality was experienced were miners, bakers, butchers, inn and beershop keepers. Between the ages of forty-five and fitty-five the annual rate of mortality among the whole population of England was 18 in 1000. Statistics show that, out of the same number of farmers, twelve died; of shoe makers, fifteen; of weavers and others employed in the manufacture of silk cotton and wool, fifteen; of grocers, sixteen; of blacksmiths, carpenters, tailors and laborers, seventeen; of miners, twenty; of bakers, twenty-one; of butchers, twenty three; and of inn and beer-shop keepers, twenty-eight. [Such is the great longevity of farmers compared to other classes of society. ]-Industrial Monthly.

POTASH IN THE SOIL NECESSARY FOOD FOR THE POTATO.—In order to produce good crops of potatoes it is necessary that the soil wherein they are p'anted have within itself, or supplied to it by manure, a sufficient quantity of pot-Every potato crop takes from the soil a ash. quantity of potash and of phosphoric aci , which nust be supplied ane w. Dr. Nichols, in an address to a board of agricultu e, thus tells why a crop of potatoes exhausts the fertilizing qualities of the soil:—"A field of potatoes yielding 200 bushels to the acre will remove from the soil in tubers and tops at least 400 b. of potash; also it will remove 150 lb. of phosphoric acid." Now, these amounts are very large, and show that the potato plant is a great consumer of the two substances, and also show that in order to restore our potato fields to their former productive condition, we must supply phosphatic compounds and substances holding potash in large quantities. For six or eight generations our farmers have been exhausting the soil by these agents in their potato and other crops, and we have reached the time when the vegetable is starving in our fields for want of its proper food. Our farmers have found that new land gives the best crops and this is due to the fact that such field afford the most potash. A potato field which gives but one hundred bushels to the acre, re quire at least one hundred and forty pounds of potash; but by allowing the tops to decay upon the field, sixty pounds are restored to the soil again, as that amount is contained in them.

LETTER FROM FRANCE.—We give some extracts from the correspondence of the Iowa
Homeste id:—Crops of 1872.—This year the harvest is excep ionably good, which make farmers forget former losses and previous sorrow. Spain ranks next to France in having well filled graneries, then Switzerland, and finally Germany. Root crops promise well though the blight has in some districts attacked the potate. B ack cattle and hogs are very dear, and, as elsewhere, the meat question is one of prominence. Fall plowing:—French farmers, as soon as the corn is lifted, or even when it is ranged in shocks, break up the stubble, either by a skim plough, or, better, by a scarifier. The advantages of a short fallow are thus secured; the light covering the seeds or weeds are subjected to induces them to

CORN LAND FOR WHEAT.—The culture of corn stubble for spring grain should begin in the autumn-in fact the succeeding crop shou'd be kept in view when tilling the corn in the

their annual seeds, or strengthen their perema directs after mid-summer, are great pests of the grain crop the following year. But after the crop is off the field, preparation for the next crop should begin by levelling the surface with the plow and harrow, to be followed by plowing. This fall ploughing should be done as early as possible, and when the ground is fairly dry, and if sub-ciling could be done, it would prove highly beneficial, as the frest would thus better ameliorate the subon than if left unstirred .- Am. Rural Home.

THE PORK AND CORN CROP .- It is the pinion of those best informed that the hog crop this year will be 25 per cent. greater than last season. The corn crop is now matured, and advices from various parts of the country indicate that it is one of the largest ever raised in the West. This, with the large surplus left over from last year, will keep the price low, and have a tendency to keep pork down. Packers seem to think that they must buy at less than \$4.00 per hundred to make a safe business. In some portions of the country there is a scarcity of hogs to consume the corn, which may tend to keep prices up. Live hogs are keeping up in Chicago to \$5.00 yet.—Iowa

THE POTATO DISEASE.-Dr. Kuhn has shown that the fungus which causes the potato disease (Botrytris, or Persnospora infestans) only propagates itself while the potato plant is living. Therefore, the potato tuber receives its infection from the haulon or stems, and one potato cannot communicate the disease to

another.

Curing Meat.—The Germantown Telegraph says:—"To one gallon of water add one and a half pounds of salt, half a pound of sugar, half an ounce of saltpetre, half an ounce of potash. In this ratio the pickle to be increased to any quantity desired. Let these be boiled together until all the dirt from the sugar rises to the top and is skimmed off. Then throw it into a tub to cool, and when cold pour it over your beef or pork, to remain the usual time, say four or five weeks. The meat must be well covered with pick e, and should not be put down for at least two days after killing, during which time it should be slightly sprinkled with powdered saltpetre, which removes all the powdered saltpetre, which removes all the surface blood, etc., leaving the meat fresh and clean. Some omit boiling the pickle, and find it to answer well; though the operation of boiling purifies the pickle by throwing off the dirt always to be found in salt and sugar. If this recipe is properly tried it will never be abandoned. There is none that surpass it, if so good.

Turnip-fly.—For the last fifteen years, on sowing turnips, I provide, ready slaked, one ton of line per acre. As soon as the plants appear, the lime is spread from a cart over the last the reasons the young plants in the rows. In hot seasons the plants have had rough usage from their tormentors, but sufficient plants escape. I never missed a crop, nor have I had to sow a second mis-ed a crop, nor have I had to sow a second time. If evenly spread over the row, the young plants will push through the coat of lime and present a beautiful green line on the white surface. The lime must be put on dry, and on a warm or hot and dry day; for if any dew or moisture be on the plants they will be d stroyed. The lime must be ready to be put on the moment the mischief begins for in the on the moment the mischief begins, for in the twenty-four hours of a hot season the fly can ruin any crop; it is of no use then going for the lime.—Mr. Bainbridge, of Oulston Hall, Easingwold.

Carrots are recommended as feed for farm horses, as they save oats and give a fine gloss to the skin, besides promoting a healthful con-lition of the system. From 14 to 21 pounds is a liberal a lowance, anything over that being apt to affect the kidneys and induce excessive staleing.

PROLIFIC.—A Prescott paper speaks of a stool of oats grown by Mr. Daniel Caughey, which contained 55 shoots, each shoot averaging 150 grains, or 8,250 grains in all. A pretty good crop from one seed. It is an imported variety. variety.

In England there are about 40,000 acres of young oaks and other growing timber planted in enclosures, by authority of acts of Parliament, of which 10,000 were planted last year.

ROSELLA RICE tells the Ohio Farmer that it is a great help in dog days to aid a gallon of cold water to cream just before churning.

RESOLUTIONS.—The man who will not execute his resolutions when they are fresh upon him, can have no hope from them afterwards; they will be dissipated, lost and stifled in the hurry-scurry of the world, or swamped in the slough of in-

Under the above head I noticed in the Rural New Yorker some time since the question was asked by J. W. H., Pickville, Tenn., what is the best cross or kind for growing a good kind of combing wool; and whether such sheep will thrive in large flocks Seeing no answer to the interrogatory of J.W.H., I shall venture, in a very brief way, to give my opinion in regard to the above questions.

In the first place, had I the old-fashioned Dutch sheep, Cheviot, or any of the ordinary coarse wool and wished to raise lambs for market, I should cross them with a pure-bred Leicester ram. I believe that cross not only gives you larger lambs than you can otherwise get, but they fatten at an earlier age; and should a person wish to raise a flock from this cross he would get a good quality of combing wool; for if your ram is pure bred, his get will most of them be similar to himself; but the next cross would quite likely take back on both sides, and the consequence would be that you would have an uneven and not very desirable flock. For the above reason I should prefer the pure-bred Leicesters. I have kept a few of them for a few years, and I know that they are easy keepers—very quiet in their habits, which enables them to take on fat rapidly, while a wild, shy breed would keep more lean; and I do not hesitate to say that for be suty and symmetry they are not surpassed by any breed. They shear a third more wool than the Cheviot, with the same keep; their woo is long, with a beautiful lustre, and a great deal finer and softer, and will command from fifteen to twenty cents more per pound.

I cannot speak of them as mutton sheep from experience, never having butchered any but it is claimed that they will dress from thirty to fifty pounds the quarter at maturity when well fattened.

In Dec., 1869, I went to Canada and purchased a few of the Leicester sheep; while there, there was a fair at Galt, and a drover named Oliver was purchasing his Christmas drove for New York. I saw four old ewes, older than the owner wished to breed from, that he had fed up to the week before Christmas. put upon the scales their average weight was 295 pounds. A friend told me that five or six three-year-old wethers had been weighed before I arrived, and their average weight was 325 lbs.; so you see that although they are small boned and short-legged, they are mon-

sters when put upon the scales. In reply to the enquiry whether they will thrive if kept in large flocks, I do not believe it makes as much difference in the size of the flock as in the place where they are kept. For instance, put 50 to 75 sheep of any breed in a building or under a shed that will keep them from the storms of winter, and give them plenty of air, and they will do better, in my opinion, than a small flock of ten or fifteen shut up close, where they will be deprived of pure air. Give any animal pure air and steady, wholesome food, and the numbers will not matter much, in my opinion. When in Canada I noticed flocks of from twenty to sixty sheep, and some persons had larger, of the Leicester breed, and all looke I well.

I should not, in my preference for the Leicester, emit mentioning the other two combing breads -the Cotswolds and Lincolns. They are similar to each other; both are coarser boned than the Leicester, and larger -require better care and feed, shear a trifle more wool of a coarser grade and inferior quality, worth less by the pound, and, all things considered, are not as profitable sheep for the farmer as my favorite Leicesters.

It is claimed by the Cotswolds men that their wool is a trifle longer than the Leicester. but I can see no need of that, for I pulled some wool out of one of my lambs at ten months old that measures twelve inches in length; if you hesitate to believe it, ask the editor of the *Rural* who has the sample I

COLD WATER BAD FOR COWS.

mentioned .- Horticulturist.

During the last summer in the hot days of Ju'y and August, the animals resorted to the lake to drink, and after slacking their thirst, they would wade into the water, and reman sometimes an hour or two with their legs half immersed. This habit, it was found, invari-bly diminished the flow of milk at night, and in order to learn the extent of the diminution, careful observations were made. It was ascertained that standing in the water an hour di-

The loss was so great that whenever they resorted to the water they were driven away to the pasture again at once. We have learned that from simply turning the herd into the yard upon a cold day in winter, and allowing them to remain fifteen minutes, the flow of milk was diminished to a serious extent, and consequently the animals are not now allowed to leave the warm stable during the entire winter, except for a brief period upon warm, sunshiny days. Water is brought directly frem a well into the barn, and drinking vessels are, arranged so that the animals have but to move but a step or two to supply their wants. The nature of the water supply and convenience of access are most important points in the management of milch cows. A draught of ice-cold water taken by a cow in winter cuts short the milk yield tor the day from one to two pints .- Journal of Chemistry.

### THE SUPPLIES OF STOCK.

In 1868 and subsequent very dry years, the searcity of grass and other stock-feed, obliged the breeders to sacrifice their stockat ruinous prices, thus diminishing their capital and discouraging the breeding of sto k. It is to be hoped and expected that the present very high prices of lean and fat stock will greatly stimulate increased stock-breeding. The increase of population and industrial prospecity cause a greater demand for animal food, and a consequent rise in price. I do not think that meat will be cheaper for some years to come. I have always had an opinion that we do not, as farmers, make meat enough, and it is evident that with so vast an extent of grass land (half of the kingdom), much of it very poor, we shall be often subject to the evils arising from dry seasons on permanent pastures. An ample and more certain supply of stock food can be produced on arable land by growing winter and spring beans, clover, winter tares, Italian rye-grass, mangle, turnips and cabbage, and winter outs all available for animal consumption. By the use of cake and foreign corn, with cut straw, &c., much ment may be made. All this requires a greater acreable capital than is generally invested. .J. J. Mechi in Markham Express.

## SOILING STOCK.

This business of soiling involves extra labor. of course, and that is the chief obstacle to its more general adoption. But it brings ample compensation, for it diminishes the area of land needed to produce the same crops and support the same stock, thus diminishing the first and permanent investment, which is often. as many farms are managed, almost wholly noremunerative. If the investment in land is less, that in labor can be greater, the culture given better, fertilizers used more freely, and the profits more certain, because these three elements in agriculture diminish the chances of failure always. Again, it is enough to put a man in a shooting mood to see workorses turned out into pastures that will not afford a good meal per acre for once a week, even if he forages over the whole acre. Think of keeping a horse in such a place in a fly and mosquito time, and then expect him to do a good day's work besides! But this is scarcely more barbarous and unprofitable than keeping cows in the dry pastures of clay hill-sides, as many do, without a bite of green forage or the shelter of a stable-often not a tree-from the 1st of July to the 1st of October. - Ex.

## WATER FOR SHEEP.

It is believed by some that water, as a drink, is wholly or quite unnecessary for sheep. No one could make a greater mistake than to believe the idea stated above. If sheep are allowed access to water, they will be as regular in drinking as other stock. A regular supply of water throughout the winter as well summer, should be regarded as indispensable for the welfare of our flocks. Every flockmaster is aware of the difference there will be in the cendition of sheep that have, and and of those that have not, been watered during a winter; although the latter may seem to be in fair condition, they are not in as good condition as they would have been had they been watered daily.

## LICE ON CATTLE AND COLTS.

A correspondent from Nashwaaksis hands us the following simple method, long used in that locality, for killing lice on cattle :- Make a strong brine with common salt, and apply it two or three times, rubbing in well with a brush. This never fails to remove the vermin. minished the flow of milk to the amount of Scurvy on cattle can be successfully treated

affected parts, previously washed clean with petition they were all sold off at remarkably soap and water .- Colonist Farmer.

IT IS SAID that sweet or sour milk will sweeten frozen butter much better than salt or saltpetre; there is nothing which absorbs whatever is offensive to the smell or taste so quickly as mik, cream or butter, and no agent can be employed that will so quickly or surely extract the flavor of the wood from new dairy utensils.

THE Willamette Farmer, of Oregon, learns that many calves on large dairy farms at Sandy are dying off, and when examined after death, it is found that the heart is much enlarged and the lungs all gone. One dairy, where they keep a hundred cows, has already lost thirty, and the same state of things exists all around them.

By FEEDING chopped straw, oats and rapeseed, thoroughly cooked by steam, and raw Swedish turnips, one of the largest dairies in England increased the yield of milk from 553 to 570 gallons per cow per annum.

A WRITER in the American Agriculturist says he has found his cows will always let down their milk when inclined to hold it up if he gives them some salt to lick.

## Sales of Thorough-Bred Stock.

THOROUGH-BRED STOCK FOR NOVA SCOTIA.

The report of the committee appointed by the Central Board of Agriculture of Nova Scotia to make purchases of thorough-bred stock, will possess interest for our agricultural

The committee report : - "At Hamilton Out., there was a very extensive exhibition of live stock, the largest that has ever been he'd in Canada. There we purchased two powerful English draught horses, "Marquis of Lorne" and "Netherly, Junior."

Of Short-horn Durham bulls, the following purchases of animals of perfectly pure blood were made: — General Grant, roan, 31 years old; Lord York, roan, 4 years and 8 months old, a splendid animal imported from England, and Containing much Duchess blood, being from Duchess of York by third Duke of Wharfda'e, and closer than half-brother to the celebrated Duchess Ninety-Seventh, for which Mr. Cochrane paid to Captain Gunter one thousand guineas when a heifer scarcely a year old; Mara Duke, a year and a half o'd; Royal George, a yearling from Strawberry by Prince Louis; Duke of Greenwood, a year and a half old, bred by Birrell & Johnston from Young Dumpty, by Bell Duke of Markham (the Cornwallis Bull); Oliver Twist, of the same age, from Kentucky Jane, by the same sire. There are also two Sho t-horn calves, one named Sir Roger Tichborne, bred by Mr. S. Beattie, from Graceful by Clifton Duke the Second; the other, William, bred by Mr. Aitchison, of Guelph, from Isabella, from His Majesty.

We have succeeded in securing from Messrs.
Aitchison Rudd and Guy, a splendid herd of
the oughbred Devon cattle, consisting of eight males and six females, three of the latter in calf.

The following Ayrshire cattle have been our chased: - Lord Lisgar, 24 years old, bre 1 by Mr. Crawford, Montreal, from Paley, by Lord Cathbert; Lord Raglan, of the same age, bred by Mr. Morton, of Morton, from Maggie, by Carrick Farmer; Independence, a yearling bull, bred by Mr. Guy, from Flora, by Lon; Dufferin, Bangor Chief, and a calf not yet named. The Ayrshire cows and heifers are: Effie the Second, from Effie, by Jack Fiora, likely to calve about the time of the sale; Lilly and Cinderella the Second, both about 17 months old.

In addition to the above, we have purchased, from some of the best flocks to be found in Ontario, twenty rams and ewes of the Cotswold and Leicester breeds, one Shropshire ram, two Shropshire ram lambs, one South-down ram, one yearling Southdown ewe, and two Southdown ewe lambs.

The following is an analysis of the purchases

made:—				
Horses				2
Shorthorn Durhams		 		8
Devons		 		14
Ayrshires	٠	 	.,'	10
Long-woolled Sheep		 		20
Dowrs		 		8
,				62

SALE OF SHROPSHIRE SHEEP AT ATHERSTONE. The sale of Shropshire rams, ewes and theaves belonging to Mr. Wm. Baker, of Moor Barns, near Atherstone, Warwickshire, took place last month. There were thirty-six minished the now of link to the amount of bedry on cathle can be successfully treated took place last month. There were shirty-six the sum of \$1 eight or ten quarts in a herd of thirteen cows. by the application of fresh hog's lard to the lots of rams submitted, and after a good com- at Bew Park,

good prices, the average being £17 13s. 6d. Among the highest priced lots were a pair of the Reflection and Perfection pedigree, which sold to Mr. Rose for 33 guineas. Another lot by Reflection and Monarch went to Mr. Bennett for 35 guineas; while the same gentleman secured the shearling ram Chance for a similar figure. Two other lots sold for 30 guineas and 33 guineas respectively, and others were disposed of at 20 and 15 guineas. The lettings were Charley to Mr. Lightfoot for 17 guineas; Valentine, to Mr. Marston, at 25 guineas Rocket, to Mr. Atkin, for 15 guineas, and F ash, to Mr. Princiss, for 15 guineas.

## SALES OF THOROUGH-BRED STOCK.

A sale of short-horned cattle and Cotswold and Leicester sheep took place on the farm of the Hon. D. Christie, near Paris, Brant Co. Twenty-eight cows and heifers, and eleven bulls and bull calves were sold. The twenty-eight females brought \$8,330, being an average of nearly \$300 each. The eleven bulls brought \$2.765, being an average of nearly \$251.— The sheep averaged nearly \$10 each. Most of the purchasers were from the United States. Mr. Hyde, of Ohio, taking fifteen cattle. One \$1,235 to Mr. Rust, of Chicago. Two heifers went to Ohio at \$675 each. Several animals were sold to buyers from Illinois, Iowa, and Nebraska.

### DUNMORE PARK SALE OF SHORT-HORNS.

In the Irish Farmers' Gazette of the 14th ult., we find the report of the sale of the chief part of Earl Dunmore's herd of Shorthorns. To those in this country who think the interest in this breed of cattle is on the wane, or that the days of fancy stocks are over, we commend this report. Fifty-four animals in all—bulls, cows and heifers—were sold, realizing an average price of more than one thousand dollars per head, being the highest average on record. Among the list of purchasers we do not recognize the names of any Americans, although it is not improbable that Mr. Cochrane and others may have had authorized agents there to pick up some of the beauties of this celebrated herd.

## CATTLE SALES.

Messrs. Hunter, of Pilkington, sold to Mr. G. Miller, of Markham, for \$600, at the Guelph Show, their prize bull, "Oxford Duke," the winner of first prize and diploma at London, and also at Guelph, last year. He also gained the first prize at Hamilton this year amongst the three year olds. The same parties also sold to Mr. P. Rennie, of Garafraxa, for \$200, their two year old grade heifer, which has stood first of her class wherever shown. Their entire horse, "Marquis of Lorne," has also been sold to the Committee appointed by the Government of Nova Scotia, to select stock in Ontario for that Province. The price realized was \$600.

## SHEEP SALES AND LETTINGS.

Among the sheep sales and lettings of the season in England, we particularly notice that of Mr. Rigdon's Southdowns, at Hove. The prices made were unusually high, 100 ewes having been sold for £520, and 16 rams bringing £344—an average for the latter of over £21 10s., say \$107.50 each. Ten rams were also let revizing £310 in the aggregate—the highest price mide being 90 guineas! Mr. Kirkham, B.se thorpe, a'so so'd Lincolnshires as follows: -68 s' earing rams averaging over £27 each; 52 rams of other ages were offered, and the average per head on the whole 120 was £25 11s., a very high figure for εο large a number.

## ANOTHER SALE.

Amongst the valuable animals shown at the Hamilton and Guelph Exhibitions, was a fine Durham bull calf, eight months old, owned by Messrs. J. & B. McQueen, of Pilkington.—At Guelph it carried off the 2nd prize against quite a number of entries of first-class breedrs, and Mr. Sproat, of Seaforth, bought the nimal for \$200.

Messrs. Long and Thompson's sale, which took place near St. Mary's, was well attended by buyers. Bulls realized from \$350 to \$400; cows, \$375 to \$380. One grade heifer, two years old. sold at \$115. The sales realised between \$4,000 and \$5 000.

A sale of imported draught horses and short-horned cattle took place, Oct. 3rd, at the farm of Mr. D. Reeson, Markham, Ont. The animals sold well.

We hear that the Hon. G. Brown realized the sum of \$13,000 from his sale of farm stock

THE G To check sna soil-liming with the days are st dry to allow of freedom. Use merely hoeing, face; give good berry drills, by walls, and on o newing surface inert. Nor si lime, or lime-w when they dist earthy outcast small recently tent as to cau them out of the

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# FARMER'S ADVOCATE

# Morticultural.

THE GARDEN USES OF LIME.

To check snails and slugs in time, commence To check shalls and slugs in time, commence soil-liming with the sowing of early seeds, when the days are sunny and the earth sufficiently dry to allow of working among the soil with freedom. Use hot or quick-lime liberally, and merely hoeing, raking or pointing it on the surface; give good c-atings of it also over straw-larger drille, by boywood, addings, the sides of berry drills, by boxwood edgings, the sides of walls, and on other vermin-harboring places renewing surface dustings frequently afterwards, when it becomes washed away, saturated, or Nor should the extirpating effects of lime, or lime-water, upon worms pass unheeded, when they disfigure the surfaces of fine grassy lawns and bowling greens with their unsightly earthy outcasts; or when they abound among small recently-planted seedlings to such an ex-tent as to cause their destruction by turning them out of the earth, and by drawing them into their holes.

Though hot lime may not extirpate many of the numerous insects which infest fruit trees and bushes, yet it is less or more hurtful to most of them; and the best time and mode of applying it is just before the buds begin to open; then on the morning of a quiet day that open; then on the morning of a quiet day that is likely to continue dry and sunny, syringe over all the branches with water, or, better still, with soap-suds, till they are thoroughly wet, then dust on the last lime till no portion remains unwhitened. Should the weather actually continue dry through the day, and no deluging rain fall immediately after, the lime illustrations considerable time and no re-

will adhere for a considerable time, and no re-newal of it need be made till next year.

Mosses and lichens, even admitting that they are harmless, are, nevertheless unsightly when thickly dispersed in luxuriant growth over fruittree and bush stems and branches; and would as soon think of blowing the growth of gross weeds among tine flowers as that of these gross weeds among one nowers as that of these epiphytes on what are expected to be fruit-laden boughs. They are quickly destroyed by lime applied as in the last case, dry up and crumple into dust and become dispersed, together with any insect or insect ova that may be associated with them, by the first fanning wind, or by their own gravity, light though they be, so as to leave the bark clean and smooth where before it was foul and rugged. If the application of lime to trees and bushes is made too early, it is hable to be washed off is made too early, it is hable to be washed off before the sun becomes sufficiently powerful to impart its full share of burning influence; while, if detayed till the young leaves and blossoms begin to protrude, these are liable to get somewhat browned or scorched; hence the propriety of choosing the time before men-tioned for applying it. The counties recognition tioned f r applying it. The caustic properties of quick-lime on the hands, and the whitening effects of it upon the cothes, are, we know, effects of it upon the cothes, are, we know, sometimes urged against its use by amateurs; but old gloves will obviate the first, and old clothes or an enveloping sheet the last of these objections—both of which are so trivial that few will ever think of naming them after fully testing the garden uses of lime for accomplishing all or any of the purposes for which it is herein recommended.—Garden.

WINTERING VEGETABLES. It is one thing to raise a go d crop of vegetables but quite another to keep them safely through winter. It is, doubtless, the fact that more vegetables are injured by heat in winter than by cold, because most persons crowd such than by cold, because most persons crowd such things together in large quantities, and then cover deeply to keep out the frost. When placed in cellars, the windows are closed, and in the more northern States banked up with, perhaps, fresh horse manure from the stable.

Of course it is necessary to keep potatoes, turning heats, and similar roots from freezing. nips, beets, and similar roots from freezing; still they would be of far better quality if kept as cold as possible and not actually frozen. Turnips and beets in particular are very liable Turnips and beets in particular are very liable to heat and become spoiled if a large quantity is placed together; and potatoes are often injured by being stored in large bins, instead of being put in barrels or spread thinly upon shelves in a dark cellar. When buried in the ground, small heaps, say twenty to thirty bushels in each, are best.

Dusnels in each, are best.

Celery — Celery that is not sufficiently blanched when cool nights come on, and there is danger of frosts, should be banked up to the topmost point of the leaves; then cover with straw or boards. When the ground begins to freeze, dig up, and place all in a narrow trench, in some dry and convenient place where it can in some dry and convenient place where it can be protected from frost and still be got at when wanted for use. Pure sand is better than soil to pack in among the roots and stems for winter preservation.

PARSNIPS AND SALSIFY. - As these roots are benefitted by freezing, or are at least not injured by it, they may be dug up and placed in jured by it, they may be dug up and placed in a trench and only slightly protected; just suffi-cient to admit of taking out what are wanted for use during winter. If they are only wanted for use in the spring, then they may be allowed to remain where grown.

ONIONS will withstand far more cold than is

usually supposed. If packed dry in tight bar-rels and all interstices filled with chaff, they may be kept in a barn or where they will freeze quite hard, and not be injured, provided the barrels are closed tight and not spened until the onions are again thawed. Onions stored in a warm cellar are very likely to sprout in winter and then decay, emitting anything but an agr eable odor.

The too general custom in the country of tion can be given when necessary. Potatoes and carrots are about the only roots that can be preserved in a cellar which is not ventilaced in winter; and then no very large quantity can

Winter; and then no very large quantity can be safely placed together.

CABBAGES.—This is one of the quickest decaying vegetables, if kept in a warm place; and the usual practice in this vicinity is to set and the usual practice in this vicinity is to set the heads in a furrow, with the roots up, and then cover very lightly with earth. In such a position they remain frozen nearly all winter, and come out in spring almost as fresh as when gathered in autumn. We cannot say how this plan would answer farther North or South; but it answers every purpose here, and New York city market is supplied in winter and spring from the open fields.

We believe that, as a rule, farmers fail in preserving their vegetables, simply because they try to keep too many kinds together, and all in far too warm a temperature. -Rural New

HOW TO KILL WEEDS.

By attending to the following directions, weeds may be completely extirnated:

1.—Study their habits. Without this you are working in the dark. You are shooting without taking aim, and are more likely to miss than to hit.

2. - Have faith that weeds can be killed. 2.—Flave faith that weeks can be known.
3.—Should you, for the first year or two, see ittle benefit from your labor, do not relax your efforts. You will certainly triumph in the end. This is the experience of all gardeners; and a firm conviction of this truth is one of the

strongest incentives to perseverance.

4.—Be forehanded with your work. This is excedingly important. It is so not merely because weed plants can be kiled easily just as thay begin to grow, but it offen happens that many weeds actually go to seed before they get large enough to attract attention. Chickweed large enough to attract attention. Chickweed (stellaria) is quite a pest in many gardens.—
We have known much labor and time spent, year after year, in efforts to keep this little plant in check, but all in vain, because the work was not commenced early enough in the work was not commenced early enough in the spring and continued late enough in the autumn. The plant will flower in the snow, and tens of thousands of seeds were matured before the ground was cultivated in the spring. The garden was forked over and hoed repeatedly during the summer, and every weed raked off (after they had gone to seed), but during the wet weather thousands of little plants would spring up, but were not thought to be injurious and were suffered to remain to grow all winter and seed the land again early in the spring. and were suffered to remain to grow an winter and seed the land again early in the spring.—
The gardener declared it was impossible to get rid of chickweed. And so it is with many other weeds. We could get rid of them if our labor was directed by a little correct knowledge of the habits of the plants, and was applied at the right time. Many think it impossible to free the land of couch, or quick grass (triticum the land of couch, or quick grass (triteum repens), and their experience seems to them to justify the opinion. But it will be found that they are not forehand in their work. They apply labor enough, but it is too late. They let the plants grow until the ground is covered with the leaves of the couch, and then they hoe and rake and cultivate, and maybe fork out as and rake and cultivate, and maybe fork out as many roots as possible. But they cannot get out the whole. The roots are broken into small pieces, and each piece produces a new plant, which soon pushes out its roots in all directions in the loose and mellow soil. Had the work been commenced before the couch plant pushed out their leaves, and been kept up so vigorously

out their leaves, and been kept up so vigorously and continuously that the young shoots could not get to the surface, and the soil constantly cultivated during the hot dry summer months, every couch plant would be destroyed. We have tried the plan, and know that couch can be effectually got rid of in this way. But no half-way measures will succeed with it.

5.—Burn all the thistle heads and other weeds that are cleaned out of the garden. Many seem to think the best place to put these weeds is in the roads. The man that does it should be indicted for a nuisance. He forgets that these weed seeds will stick to the feet of horses and other animals. Another plan is to feed these seeds to the fowls. All that are not digested will grow. If there is so much grain among the grow. If there is so much grain among the weed seeds that you do not like to burn them,

boil before feeding. 6.-Look to the manure. This is a fruitful source of weeds. If the crops are foul, the manure will certainly be full of weed seeds.— Fermenting the manure will not kill these seeds, unless the seeds themselves are decom-

posed, which is seldom the case. The better plan is to pile the manure, turn it, and get it thoroughly rotted, and then apply as a top-dressing.—London Farmer.

### TRANSPLANTING CURRANT AND GOOSEBERRY BUSHES.

In reply to "An Amateur," we give him the result of our experience: I have only this month (Uctober) been able to transplant my The too general custom in the country of putting all kinds of vegetables in the cellar under the dwelling-house is not conducive to the health of the inmates at least; besides, it is scarcely possible to keep all kinds equally well preserved in the same temperature. It is a far better plan to store the different kinds separate, or at least place them where ventilation can be given when necessary. Potatoes ing them to remain in the nursery not trans-planted till spring. They may be safely transplanted even later in the season if they be removed with sufficient care. I have transplanted current bushes in the months of Sep tember, October, and the early part of Novem tember, October, and the early part of November, and in every instance without a failure. I have learned by experience that by delaying the transplanting till spring, a season's growth and a season's fruit are generally lost. The best month for transplanting is September; there will then be more time for the young trees to take root well before the frost sets in. If planted late it will be well to protect them by slightly mulching the surface over the roots. If planted late it will be well to prove them
by slightly mulching the surface over the roots.
Currant bushes are best propagate i by cuttings,
early in the fall. They strike root very freely.
Propagating them from the suckers or by dividing the bush does not produce so good bushes.
I tried keeping the currant bush confined to a
single stem here as I had done in the old counsingle stem here, as I had done in the o'd country, but it does not answer so well, owing to the greater summer heat. - As'r. ED.

WINTER GARDENS IN OUR ROOMS.

From Arthur's Home Magazine we condense the following notes for November:—
"Hanging baskets are the most graceful ornaments that can be used in making a winter flower garden. They may be hung from the windows or in corners; brackets on the wall may support pots containing the same kind of pendant foliage, and ivy may be trained over mantels and picture

frames.
"A common sweet potato, placed in a hyacinth glass, and treated the same as a hyacinth bulb, will send out long, delicate roots until the glass is filled, while at the same time a beautiful and graceful vine will shoot from the top and may be trained in a variety of ways. The flower stand containing the plants suited for winter blooming must be drawn near the window, where they can obtain both light and shade.

"Arrange into bouquets the pressed ferns and dried mosses gathered in July. You can make out of them a perfect bower, either over the mantel or in a corner. They can be fastened on strips of paper and tacked to the wall, the tops of each successive row of ferns hiding the paper and

the fastening of those immelately above.
"Now is the time to obtain bouquets of autumn leaves which rival colours with the brilliancy of their coloring. If they are renewed once a week during the season they will always be fresh and brilliant.— Those bouquets are seen to the best advantage if placed where the light will shine through their leaves and bring out the

colors in all their brilliancy.

"The Virginia Creeper is a beautiful subject for parlor decoration. Its leaves present the most brilliant tints, and its clusters of purple-black berries are very graceful. Oak berries will retain their color and form longer than anything else, and their red, green and bronze foliage can be arranged in a variety of ornamental forms over the tops of cabinets, bookcases and picture frames."

## HINTS ABOUT FLOWERS.

House plants ought to be stimulated gently once or twice a week. Rain water, so refreshing to summer flowers, always contains ammonia, which also abounds in all liquid manures. If you take an ounce of pulverized carbonate of ammonia, dissolved in one gallon of water, it will make spring water even more stimulating to your plants than rain water. If you water your plants once in two weeks with guano water (one tablespoonful to a pail of water), they will grow more thrifty.—Chicken manure dissolved in water is excellent. Always keep the soil in your flower-pots loose. A common hair-pin used daily will stir the earth sufficiently.—Boston Journal of Chemistry.

would be so weak that a potato put in would not quite come to the surface, and then applied two quarts of this liquid close around the trunk every spring. From 200 peach trees he had sold, during the past five years, \$12,000 worth of peaches. He had also a good crop this year.—The Horticulturiet.

## Orchard and Forest.

THE CONCORD GRAPES.

Ol jections are frequently made to the Concord grape on account of its acidity. It is very easily accounted for by the fact that too nuch fruit is allowed to grow up in the vines. The idea sometimes advanced, that the vine if fruit should not be pruned at all, has been proved incorrect by the experience of the most practical vine-dressers. This variety has been fully tested as a table grape, and its superior ments have been demonstrated. If it is properly cultivated, it is best for general culture, and takes the lead in vigor and adaptaoility of any that is now grown in the open air in this section of the country.

Vines that have been planted four years and are perfectly healthy and vigorous, will, if rightfullly pruned, bear from forty to sixty bunches of grapes annually. One-half of the clusters should be removed soon after the fruit sets. By this method the fruit will ripen some two or three weeks in advance of vines upon which all of it is allowed to grow. Older vines will produce like results under the same treatment. To improve the flavor of the fruit, place it on earthenware in a well ventilated celiar for several weeks. By this means is acid properties will be changed, and it will then have more of the saccharine matter, which is a most desirable quality in fine fruit.

It will be found that this grape can be grown in this manner with a fair prospect of

profit to those who cultivate it for the market, as its value would be greatly inclined to pay a fair price for choice fruit rather than purchase that of an inferior quality at a cheaper rate. Here then is one important requirement to grow first-class fruit.—Newburyport Herald.

## PLENTIPULNESS OF FRUIT.

The orchards of Canada are teeming with fruit. Apples were never in greater abundance in the markets, and, as a consequence, they are sold at very low prices. Some of our most extensive fruit growers intend shipping considerable quantities to England. fruit crop there has been almost a failure from the cold Spring. Notwithstanding the abun-ance of fruit in the markets, it all meets with a ready sale; and though it brings a low price wery low it of an inferior quality—good fruit sell comparatively well. Fruit will always find a ready market and generally pay the producer well for his outlay and labor. When planting an orchard it is essential to future profit to make the best selection of the different sorts to be procured. We give from the pages of the Country Gentleman a fruit growers list of apples which are said to sell well, give excellent satisfaction and ripen in succession: The trees are very hardy, good growers; fruit large, regular bearers and of good quality. In 100 trees the following proportions will be In 100 trees the following proportions will be found nearly right:—6 Primate, 10 Red Astrachan, 10 Lowell, or Tallow Pippin, 6 Golden Sweet, 5 Hawley, 6 Twentyounce, 7 Poundsweet, 10 Baldwin, 10 Greening, 10 Northern Spy, 10 Roxbury Russet. While in this list we meet some well known favorities, we also miss some that we would be favorites, we also miss some that we would be sorry to see omitted from our Canadian orchards; among others, the Fameuse, or Snow apple, the Duchess of Oldenburgh, the Alexander, the Winesap, and some of the Pippins and Russets not included in this list. It will, however, be a help to a person about to plant

an orchard. Of the Primate Apple, a writer in the same journal writes as follows: -" As an early fruit this variety ranks the best where most known. It does not crack and blotch like Early Harvest—is a ways of good size, large, very hand-some, and of superior quality. Tree, a strong grower, with very stout new wood, always hardy and healthy, and producing good crops annually. The fruit continues to ripen gradually, as desired for use, from 1st of Aug till middle of September.

## POTASH FOR PEACH TREES.

At a recent meeting of the Cincinnati Horti-cultural Society, a Mr. Sheppard stated that he had a peach orchard of twenty-five acres, the soil of which was poor, and was manured with potash only. One barrel, costing \$35, or 15 cents per pound, lasted him four years. He dissolved it in water so that the lye would be so weak that a potato put in would be so weak to the surface and then an

off at remarkably eing £17 13s. 6d ots were a pair of n pedigree, which neas. Another lot went to Mr. Ben-he same gentleman hance for a similar for 30 guineas and others were diseas. The lettings oot for 17 guineas; n, at 25 guineas; r 15 guineas, and 5 guineas.

ttle and Cotswold lace on the farm of

BRED STOCK.

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D LETTINGS.

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The sales realised

on. G. Brown realized his sale of farm stock

# Good Bealth.

LOCATION OF HOUSES.

Houses should be built on upland ground, with exposure to sunlight on every side. During epidemics, it has been noted by physicians that deaths occur much less frequently on the sunny side of the street than on the shady side; and in hospitals, physicians have testified to the readiness with which diseases have yielded to treat ment in sunny rooms, while in shaded rooms they have proved intractable. Let there be no bogs, nor marshes, nor stagnant water in the neighborhood, then let the cellars be thoroughly drained. Instantian to this subject has covered the attention to this subject has caused the death of many a person. No father and mother should rest one moment in peace while their innocent babes are sleeping in rooms over damp and mouldy cellars. Cellars should not only be drained, but thoroughly ventilated, otherwise the house must be unwholesome. Let the drains also be constructed for the conduction of slops and sewerage of all kinds to a common reservoir, at a distance from the dwelling, to be used for fertilizing purposes. Door-yards should be kept clean and dry, composed largely of greensward, on which children may romp and play. They are entitled to it, that the breath of Nature and of Nature's God, as it filters down through the blue sky, may fan their rosy cheeks, and fill their souls with joy and their bodies with health. If beautiful and useful flowers and plants can be cultured, they will add to the attractiveness of the place, and help to cultivate a kindly spirit among its inhabitants .- Science of

SLEEPLESSNESS AND THE REMEDY.

The best anodyne is a liberal amount of muscular activity out of doors every day. Persons who sit around the fire, or lounge on the sofa, or read or sew a great part of the day, need not expect sound sleep only the laboring man can taste it in all its sweetness. Many fail to sleep at night because they will persist in sleeping in the day time. It is just as impossible to healthfully force more sleep on the system than the proportion of exercise requires, as to force the stomach to digest more food than the body requires. Rather than court sleep by industrious activities, many persons resort to medicine, and every new drug which is heralded as a promoter of sleep becomes at once immensely popular, though it is known to possess dangerous qualities. Coloral hydrate has had a great run, and even young men are known to be purchasing it at the drug stores, to be used in promoting sleep; if should never be taken unless advised by the family physician, for the medical journals are constantly publishing cases where serious harm and even fatal results attend its habitual use .-- Journal of Health.

STAGNANT WATER DRUNK BY COWS PRODUC-TIVE OF TYPHOID FEVER.

Of 140 families supplied with milk from a dairy in Islington, England, seventy suffered from typhoid fever. One hundred and sixtyeight individual cases occurred within ten weeks, and thirty died. An investigation showed that the cows drank water from an old underground tank, built of wood, and much decayed. The milk cans were washed in the same water, and in all probability the water As the fever was also mixed with the milk. attacked only such parties in that district as used the milk, the water in the rotten tank must have been the cause. This is only one more evidence of the danger of using four water, and giving it to animals. It has been shown that stagnant water acts as a slow poison to animals as well as men; and it is a matter of the first importance to all dairymen and stockraisers, as well as families, to use only pure fresh water .- Moore's Rural New Yorker.

A CORRESPONDENT of The Builder states that he had occasion for several years to examine rooms occupied by young women for manufacturing purposes, and he ture. We must confess we are rather are not aware of any having been sent women for manufacturing purposes, and he ture. We must confess we are rather are no has observed that while the workers in astonished to find them so far advanced as yet.

one room would be very cheerful and struck him, he had the yellow ochre healthy, the occupants of a similar room, washed off the walls, and then whitened. who were employed on the same kind of business, were all inclined to be melan-choly, and complained of a pain in the forehead and eyes, and were often ill and unable to work. The only difference he could discover in the rooms was that the one occupied by the healthy workers was wholly whitewashed, and that occupied by tive of disease as the former; but fresh the melancholy workers was covered with ripe fruits are always healthful and nourish vellow ochre. As soon as the difference ing, and are among the natural foods of man

At once an improvement took place in the health and spirits of the occupants.

GREEN fruit has always been considered as tending to produce the cholerine diseases, but we believe that over ripe or partially decayed fruit is fully as productive of disease as the former; but fresh

CORDOV AT

> GROUNDS AND BUILDING

REPUBLIC

ARGENTINE

EXPOSITION MOST THE

The above cut is kindly lent to us by in South America, judging from the above

the Prairie Farmer Co., who publish an illustration. We think we may receive a excellent agricultural paper in Chicago, hint from it in regard to beautifying our from which we occasionally make extracts. agricultural grounds. It is with that view We, or some of us in this part of Ontario, are apt to think we are far in advance of nadian breeders' stock may some day gain

## Entomology.

BY PROF. C. E. BESSEY, OF IOWA AGRICULTURAL COLLEGE.

Every year Iowa feeds of her productions bout en millions of dollars worth to insects. o one or more of these piratical little animals. Prof. Riley, in his Third Annual Report upon the Noxious Insects of Misseuri, makes menion of thirty-seven different insects which incest the apple tree alone, while some English encomologists estimate that in England every different species of plants has on an average six different species of insects.

The loss annually in the whole United States is stated to be three hundred millions of dollars, and I have no doubt the statement is rath r below than above the truth. Could this rath r below than above the truth. Could this enormous sum be applied to the payment of our Nati and Debt, in ten years all would be pai, principal and interest; yet year by year we pay tribute, and have as yet made but little united, intelligent effort to free ourselves from one necessity. In our own State next to nothing has been done; a committee or two appointed by our Agricultural and Horticultural Societies constitutes the whole force now mustered by Iowa to protest against paying ten tered by Iowa to protest against paying ten millions a year for the support of a hungry h rde of insects. Is this wisdom? Is this so ivial a matter as to be beneath the province of legislation? We have laws against permiting certain noxious weeds to grow and send their seeds from farm to farm, and yet so far as I know, nothing has been done to prevent the growth and spread of hundreds of insects which are worse to eradicate and much more injurious than even the Canada Thistle How shall we best light these insects?

is the question which first comes to us when our the ice plums wither under the puncture of the Curculio—when our potatoes disappear before a rarmy of Potato Beetles, or when the Grasshoppers come down upon our case, corn and grass like a personation of Destruction itself. We plant, we give anxious care and hard labor that our planting may come to full fruition; but the worm comes in for his share first—too often it is a "lion's share," and chooses the best and finest for his eating.

The worm, the bug, the beetle, the fly, the moth, they follow us everywhere, and claim a portion of ours as their own. How shall we escape from them? There is no way but to set to work and study them until we know themto work and study them until we know them-know not only their appearance, but their habits, their hiding places, their weakest mo-ments, their most vulnerable points of attack. We must do with these enemies as we would

do in case of larger, two-footed ones; we must first find out how to attack best, and then make an attack all along the line. We must all rouse ourselves and go into the fight energetically and understandingly. - Iowa Home

OF INJURIOUS INSECTS.

Deserving notice, are the second-brood caterpillars of the fall web worm, Huphantria teutor, the webs of which can be seen on most all kinds of orchard fore t trees, as on the osage hedge. While in the web the worms are scarcely an inch 1 ng, and are the rvery conveniently destroyed; they are light-colored, hairy, with black dots on the back. At that's ze they leave their web and run singly over ev ry object and off almost any green thing. They produce a white moth, the male measuring about an inch, the temale 1½ inches. Thy pass the winter in the pupa state.

THE HANDMAID MOTH (Datana minis ra).

The caterpillar of this month can be found n almost any orchard of young trees; its pre sence on the trees is easily detected by the conspicuous and defoliated limbs; they are now found in lumps of from 20 to 30 together; are black worms one and a half to two inches long, with six white longitudinal lines and a little hairy when not feeling, they raise both ends. Pupate in the ground and winter as pupa moths: issue in July, and are also found on oak, haz-l and black walnut.

THE AMERICAN PROCRIS (Procris Am ricana). A shor, thick, yellow caterpillar, slightly hairy with black dots, is a gregarious worm, 20 to 30 occupying one single leaf, which they only leave when full-grown, and they are for this reason easily distroyed by picking off the infested leaves; it produces a small black moth with an orange colored moth which issues in July fellowing. In Southern latitudes there are two broods, and the first brood of caterp l'ars sonret n es proves quite injuri us, committing its depre ations at a season when the foliage is essential to the health of the vine and fruit.

WE issue a Supp'ement this n on h containing a list of the most important awards of Prizes given at the Provincial Exhibition.— There may be a few inaccuracies, but it is as correct as we have been able to procure it. We were promised a revised or corrected list from the Secretary, but it has not yet come to hand,

During have been tory organ which time of a imal best veteri severe hac able fever, the nose, of the ext charge of the anima such as a c it is kept fec ed, an app ar. where ran be little d days, Dr. acimals. particular large ones is suppose the atmos more tha e untry v tha seve ing caug probable ed with t We s

this var issue. land, an They m where y time th with a straw o top and as sprin ers as n highly varied o Littl your ne next ye a prize

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During the past few weeks several herses have been seized with a disorder of the respiratory organs, but nothing was thought of the trouble until within the last few days, since which time the disease has attacked hundreds of animals. The malady, a co ding to our best veterinary surgeons, may be characterized as a caterrhal fever. It commences with a severe hacking cough accompenied by considerable fever, remess of the mucus membrane of the many and coldress. able fever, re ness of the muc us membrane of the nose, hot mouth, s aring coat and coldness of the extremities. If the a short time a ischarge of matter from the nose occur. When the snimal is exposed to any vitiating influe cesuch as a cold drift, or impure stable, or when this large at had work, the lungs become after the application will always and a specific to the application of the mouth would be applicated to the application of the application will always and the application of the mouth would be applicated to the application of the application of the mouth would be applicated to the application of the app it is kep; at hard wo k, the lungs become affec ed, and of cours: more severe symptons app ar. Thus far, notwithstanding al reports to the contrary, no deaths have occurred, and where casional treatment is pursued there will be fittle danger. Furing the past couple of days, Dr. A. Smith, veteriaary surgeon, has treat d no less than six hundred of the diseased animals. The epidemic is not confined to any particular stable, but has appeared in additionals. It is impossible to ascribe any tangible cause for the disease, but it is suppose to be due to a peculiar condition of the atmosphere, and if such be the case it is the atmosphere, and if such be the case it is more than likely that all horses throughout the more than likely that all horses throughout the country will be more or less affected. In support of this supposition, it may be mentioned and the arrangement and disposition of the port of this supposition, it may be mentioned and the arrangement and disposition of the various articles exhibited reflects great credit on those who have the monagement of affairs.

## The Parrot Tulip.

land, and expect them in a few days .-They merely require placing in the earth where you wish them to grow, some time this autumn; cover the ground with a few leaves, rough manure, straw or tan-bark. They will then top and be ready to shoot up as soon as spring opens. If you admire flowers as much as we do, you will be highly pleased with the bright and varied colors of this variety.

Little girls and boys, go and ask your neighbors to take the ADVOCATE next year; tell them you want to get a prize, and, if you succeed, you will soon be able to give them a bulb and ornament their gardens. Your fathers and mothers will be pleased to see you decorate the garden in this way, and may help you. If you obtain one new subscriber you will have two bulbs sent you; you must mention that you are trying to get up a club. See the larger prizes for getting up clubs, and try and get one.

## Vetermarn.

DISTEMPER IN HORSES.

The treatment of this disease consists in placing the animal where it can breathe fresh placing the animal where it can breathe fresh air, and be without restraint. A loose box is the best place to keep it in. A mild purge will usually benefit the animal. Cape aloes, three drachms; extract of gentian, three drachms. This should be followed up by the following: Nitrate of potassa, two ounces; carbonate of ammonia, one ounce; solution of the acetate of ammonia, twelve ounces; water, twelve oz. This is to be divided into four doses, to be given night and morning. If the animal should appear distressed with short breathing, or effusion of the chest is threaten d, the last-named dose may be continued, and mustard poultices be of the chest is threaten d, the last-named dose may be continued, and mustard poultices be applied to the chest. A good bedding should be under him, and a pail of good whitened water or thin guel placed in his manger. This last should be changed twice every day, a though it be not touched. Sil nee should be maintained as much as ressable near to and about the as much as possible near to and about the animal prostrated by this disorder. Distemper renders horses extremely nervous, and the slightest noise seriously affects them. As soon as the strength of the com; laint has subsided, his drink may be made rather thicker; carrots shou d compose his f od for the first few days, then a few crushed and scalled oats may be allowed; and at any time give any kind of pro-ve der, rather than the horse should consume G od, wholes me stimulating food is, aft rall, the best tonic; and plenty of this, with a quart of good porter, morning and evening, will soon leave the horse none the worse for having had the distemper. - Prairie Farmer.

Correspondence.

INTERESTING LETTER FROM OTTAWA.

To the Editor of the Farmer's Advocate.

Well, my dear friend, we have just had our first Horticultural Show in Ottawa. have had spasmodic attempts before, but this time we began with a determination to continue, all being well. The 5th and 6th of September were the appointed days and you. who do so love to win your way (as we have done in this matter) in the midst of all sorts tural, would have given us a helping hand in encouragement and sympathy; but no-frowning upon us in august displeasure, she bade us wait ill after her fete days (when the best flowers would be done, and our success at the pretty sight which Gowan's Hail presented last Thursday afternoon. The Hill exhibition yesterday showed symptoms of having caught heavy colds. It is more than probable that instead of colds, they are afflicted with the catarrhal fever.—Mail. of a large number of Coleus exhibited by Mr. E mite, attract universal at ention and ad-We spoke of the handsome flowers of mi ation. Here are far to many beauties to this variety that we had seen, in our last issue. We are importing some from Holland and analyse and seen in our last nov-ities, geraniums, single, double and seen the land a scented; heliotropes, bigon as, verbenas, petunias, lantanas, and the elegant fuschies



THE PARROT TULIP.

with fairy-like ferns among them, form a small part of the array of floral beauties, right y called "God's smiles upon the eright y called "God's smales upon the earth." Zinnias are unusually fine, so are the gladioli; while the boxes of cut flowers, the bouquets and floral designs are really deserving of highest praise. Turn aside for a moment, however, and see "The Gem of the Fair," 'tis an alcove displayed by Mr. E. J. O'Niel, of this city, and styled by him "The Irish Nursery Department." The a cove is composed of two ribs of a whale, and resting on a vertebrae of the same, and contains a collection of about 30 plants imported from the Emerald Isle and still growing in Irish soil; they consist of Irish yew and laurel, laurestinus, holly, laburnum, furze or gorse, cape heather, woodbine, and the ne'er-to-be-forgotten cowslip, primrose and daisy, while bouquets of cut flowers placed in front add much to the effect by th ir glowing beauty.

The display of frut is very limited; a few grapes, open air as well as hor-house growth a plate of splended peaches; a few plums and Siperian crabs, are, I be leve, nearly all, but what there is, is remarkably fine in quality.

But as for vegetables - just listen how those side tables groan beneath their weight, is it not chopped fine, and fresh grass, when in season, enough to make one turn vegetarian? See those Murphies, enough to make an Irishman blush for his country and confess it beaten; lu-cions melons; c earny marrows, with c mi-cil looking squashes and immense pumpkins; citron; egg plants, pu ple and white; c rn, of various kinds, and all of it good; smooth sound tomatoes and fragrant celery; cabbage, sound and hard enough to make you declare came to hand too late for insertion. He teld

epicure; feathery Scotch kale; carrots and blushing bets; saucy looking peppers in their scarlet coats; all these and more than there, in such profusion as to make one say, has been met with in the United States, in Sure y this our land is a very goodly country; God bless Canada our Home, our bonnie New Dominion!" If equal prospenty crown our future efforts in the coming years, we shall indeed have no cause to complain. In the meantime, wishing both you and your readers every happiness and success, believe AUNT PATTY. me, yours tru y,

["Aunt Party" has our heartiest thanks for her kind remembrance of us, and her interesting epi-tle from the great metropolis. "Aunt Patty!"—how droll a name for Miss
to assume! Well, "Aunt Patty," as well as
"Uncle Tom," is much liked by our tens of
theusands of readers. We know she is a great favourite with some .- ED.]

INTERESTING COMMUNICATION FROM THE

PROVINCE OF QUEBEC. SIR-I am yet rambling in Lower Canada and through the prettiest and most romanic part I have yet seen. Here are magnificent ranges of mountains, interspersed with beautiful little lakes, the views of which are of the most enchanting description, and thust be seen to be appreciated. One thing I give the Lower Canadians or dit for, and that is, the very pretty manner in which they get up and finish their villages and farm houses. Take the latter as a whole, I see nothing like it in Ontario Well, I must tell you that this is a very grassy section of country, consequently people devote their attention to cows. The dailes he e are large, employing from 30 to 60 hands, some going altogether into cheese-making, others to butter; but it is generally thought the former makes the most money, but then this is coun teracted by the loss of the milk for the calveand hogs. They consider 20 cents a round here for butter by the tub to be an ordinary p ice. It has been an exceedingly wet summer throughout this section, raining from two to three days a week on an average, so that it has been very trouble ome to save the luxuri int and heavy hay crop; but, upon the whole, it is pretty well secured, and is worth about \$10 per ton. O is are extensively raised here, and there is quite a quantity of late-sown to secure and cut yet, but they generally use this in the straw to feed the cattle; the early-sown is secured, and is a good crop. Threshing has commenced, and turns out well-so they tell me. Wheat, little or none grown.

I am sorry to say that the potatoes are rot ing badly with the wet; they were also a heavy crop. What with the failure of these in this Province and in the Upper one from the Colorado Bug, I fear, sir, we must expect a high price and a scarcity this winter of this, one of the most useful roots to mankind. I was pleased to get an Advocate or two, and I will make a remark about one thing I saw in last month's paper, relative to using arsenic for the destruction of the Potato Buz; let me advise your readers by no means to do so. I came from a part of England where tens of thousand of tons are raised annually from the earth. Be it remembered, that this is a mineral poison, not a vegetable one. I recollect in the old country, some years ago, a neighbor using this on his turnip crop to kill the fly; in the winter several of his cattle died ra he: mysteriously; he had their stomachs at last analyzed, and discove ed enough arsenic to k if them; on examining the turnips it was found (by the aid of a micro-cope) to be adhering to the fibres and leaves.

A word now for the Advocate. The post masters here tell me they never get it now-why not? you would find scores would take it here. Wake up a little in this section, send some handbills to the post office, as there is a wealthy class of farmers in this neishbourhood, many of whom I am sure would take it. Yours truly,

Bedford District, P.Q., Sept. 18, 1872.

[We thank our kind correspondent "Rambler" for his valuable communications. His testimony to the great danger at endant on the use of arsenic confirms the information given in a previous number of the ADVOCATE. We are glad to have to say the value of an agr cultural paper is increasingly felt by the farmers. Repeatedly they tell us that we have done more for the agricultural interest in Cana la than any other institution-more than the Government. Our constantly increasing subscription list proves the estimation in which farmers hold the ADVOCATE.

We regret the last letter from "Rambler

caterpillers a myth; cucumbers, to delight an us "the potatoes had so far escaped the attacks of the Colora o Bug, but they have an insect company with the others. For them, as for the striped bugs, Paris Green is the best remedy.—Ed.]

> SIR,—Will you oblige me by answering the following questions?—What quantity of corn does it take to put on 100 lbs. of pork, under favorable circumstances? How much if ground and steeped? How much it ground and cooked? How many bushels of turnips to put on 100 lbs. of beet? What is the cost per bushel and per car load for corn from Chicago to London or Toronto? Will it pay in Canada to feed a quantity of hogs, especially where a large dairy is kept? I have found by actual experiment that it takes 7 bushels of peas to put 100 lbs, of pork on a good thriving hog, but the difficulty I have experienced is this: the price of peas may rise to 65 or 75 cts. in the fall or winter, and then I feed my own peas at a loss, and find it difficult to buy the quantity I need. It corn feeding will pay, then it is easy to buy as many car loads as are needed .- Yours truly,

A SUBSCRIBER.

["What quantity of corn does it take to put on 100 lbs. of pork, under tavorable circumstances? In reply to this query from "A Subscriber," we must premise that the figures we give may not be quite correct as regards the hogs he proposes to In teeding stock of any kind so much depends on circumstances other than the food given, that the result of one feeder's experience may differ very much from that of another. The condition of the stock when put up for fattening should be taken into account. Nor is this all.—A good house, good bedding and cleanliness are to receive due attention in the fattening even of hogs. The quality of the corn or other food to be given, and whether it be given whole or ground, cooked or uncooked, are to be taken into account. And there is yet another cousideration as to the hogs—what is their breed? Berkshire or what? Some breeds of hogs will put up more pork in a given time and with the same quantity of food than others. A writer in the Rural New Yorker says one acre, if seeded with clover, will teed and keep in good condition five hogs; and that a half acre of corn will fatten them. This is rather indefinite. A writer in the Country Gentleman gives the results of his experience, which we give condensed as tollows:—" Corn meal steeped in boiling water at night for the next day's use, made in one instance 16% lbs. of pork to the bushel of corn; in another instance 18 lbs. to the bushel. Marketable corn made 118 lbs. to 10 bushels of corn, being a fraction less than 12 lbs. of pork to the bushel." Another authority says one bushel of corn will make 15 lbs. of pork. We have met with other calculations very different from those given. An Ohio farmer, whose article on the subject we give in another column, says also that fifteen pounds of pork are made from one bushel of corn.—As.'T ED.]

## ECONOMY.

SIR,—Some time ago, under the general caption, "A Few Thoughts," I gave in the ADVOCATE a very few thoughts on "Economy." I will now, with the Editor's permission, add a few more on the same subject, which may be regarded as a supplement to cluster No. 10 of the abovementioned series.

First, then, it is not good economy for farmers to butcher or sell to the butchers all the best of their lambs, and keep a few of the poorer ones for ewes. Nor is it a good plan to let them have lambs when only one year old; give the lambs one year to grow in. By neglecting there two things a flock of sheep will soon run down so as to be hardly worth their keep. The proper plan is to kill or sell off all the worst of the lambs and keep a few—what-

WA AGRICULTURAL f her productions

worth to insects. heavy percentage ical little animals, anual Report upon s uri, makes meninsects which innile some English in England every ias on an average hole United States

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second-brood cater-, Hyphantria teutor, een on most all kinds on the osage hedge s are scarcely an inch veniently destroyed; with black dots on t and off almost any e a wh te moth, the inch, the temale 12 er in the pupa state.

Datana minis ra). onth can be found ung trees; its prely detected by the limbs; they a e now to 30 together; are ft two inches long, al lines and a little nd winter as pupa l are also found on ut.

Procris Am ricana). caterpillar, slightly a gregarious worm, n, and they are for d by picking off the sa small black moth noth which issues in hern latitudes there fir t brood of caterquite injuri us, com-ta season when the health of the vine

nent this n on h conimportant awards of vincial Exhibition. curacies, but it is as ole to procure it. We or corrected list from not yet come to hand,

The same plan, though of course somewhat modified, should be pursued with reference to cattle. A farmer should never allow his stock, sheep or pigs, to run out by neglecting to observe the plan just given, or by being so careful of a little time and labor or money as not to procure the best breeds which can be obtained .-No one need expect to succeed in farming, as far as stock-raising, &c., is concerned, who does not make it his constant aim to improve his breeds.

Again: it is bad, very bad economy, to keep a horse for trotting or running. A "fast horse" is a curse to its owner; grain, time, money, and many other things as good as money, are squandered away where there is a "fast horse." They are a perfect nuisance in the country; no possible good can result from them. They are only evil, and that continually. The practice of keeping them cannot be too strongly condemned.

Neither is it good economy to spend a great amount of time, money, grain, &c., in fitting up an animal for the Fall Show at the expense of those left at home. Feeding up one or two to take to the Show, just for the sake of a prize of a few paltry dollars, whilst the rest suffer for it, is a very foolish thing, but is very often done. This is poor economy, or, more properly, not economy at all.

Jas. Lawson. not economy at all. Battersea, Oct. 7, 1872.

DEEP PLOUGHING-IMPROVEMENT IN AGRICULTURE.

SIR,-I am sorry in having neglected so long to send my dollar for this year's AD-VOCATE. It looks too much like as if I did not appreciate the paper, whereas I take pleasure in even anticipating its arrival. I was just longing for such an article as appeared in the October No. on "Deep Ploughing," treating the matter at some length, and satisfying me that soils in general, and mine in particular, would yield more from deep ploughing in the proper season. I believe many in Sunnidale have suffered from the neglect of ploughing in the fall, and that deep ploughing for winter is the thing wanted.

This Township is waking up, having its annual Show and Ploughing Match following, in October, while there is a general pressing towards steady industry in clearing and improving the farms, and looking also to the improvement of stock. Horses, sheep and pigs are receiving considerable attention from enterprising parties; particularly is this the case with horses .-As yet, however, though much talked of by a few, there lacks the bringing in of a good bull or two. I doubt not but some spirited farmer will ere long set us an example in this, and give us meanwhile the benefit of his enterprize.

The Early Rose Potato is becoming quite common this season, and much liked. I like Bressee's Prolific and King of Earlies very well also. This fall most of the farmers have sown Treadwell ALEX. HISLOP.

P. S.—Crops were good this year here. Hay is rising in price; \$12 offered for it in stack. Potatoes are selling for 25 cents per bushel. Bugs-plenty for nothing; what will they be next year? A. H. Stayner P. O., 11th Oct., 1872.

This letter from our esteemed correspondent needs no comment. We shall always have great pleasure in hearing from We hope our agricultural friends will continue sending us their communica-

tions, as a means of maintaining the character of the ADVOCATE as THE FARMER'S PAPER.—ED.

ROLLING FALL WHEAT.

SIR-In remitting to you the money for your No. 1 Scitt wheat, I would say, also, that I like very much the FARMERS' ADVOCATE. Every farmer should have the ADVOCATE every one that has a house and garden should have it. I take four papers, and I like the Advocate best. Several of my neighbours have read it, and they like it. The harvest in this part is all housed, and it is good. I would like to know if rolling fall wheat in the fall would serve it. Would you, or some of your subscribers, give me some information on the subject?

JOHN HOWARD. Yours, &c., Howick, Co. Huron, Sept. 14, 1872.

We would not recommend rolling wheat in the fail. In a previous issue we gave an extract from an agricultural paper, "Packing the from an agricultural paper, "Packing the Soil," strongly recommending rolling crops; but it is spring crops, not fall crops, that rolling serves. The severe frosts here would, we believe, be more likely to injure the fallsown wheat in the winter, if rolled; besides, the rough clods mouldering in the spring will nurture and strengthen the tender wheat plants.-ED.] FARMERS' CLUB.

SIR,-I am about to start a Farmers' Club here. If you would send me a plan of organizing it—whether it requires a President. Secretary, or how many officers are requisite to form a Club-you would oblige yours truly,

JAMES POTTER. Berlin, Sept. 18, 1872.

[It gives us pleasure to learn that there is a prospect of Berlin having a Farmers' Club. The club will require a President, Secretary, and Board of Directors. It would be well that they be elected annually by the members of the club. The meetings can be held monthly in some appointed place, and some agricultura subject discussed, notice of it having been given at the previous meeting. Mr. Potter can induce a few of the intelligent farmers in the vicinity to meet at a given place, and at an appointed time, when they can organize the club, and there is little doubt the roll of membership will soon have many names added

RECIPE FOR SORE SHOULDERS ON HORSES.

SIR,-I now send you my simple cure for sore shoulders on horses while at work, which may be useful to many of your readers. Take 3 quarts of chamber lye, and mix in 1 quart of salt; wash the sores three times a day and they will heal up quite sound, and the horse can be kept at work during the whole time. H. Y. S.

[This remedy is very simple, and of its efficacy I had abundant proof, having seen it applied for many such cases .- As'T. ED.]

OPINIONS OF OUR SUBSCRIBERS,

SIR-I am leaving Quebec for Ottawa in October. I do not know where my destination may be after that, so I have to withdraw from your valuable paper till I get settled, when I hope to be a subscriber again. Believe mewhen I tell you that in my opinion it is the best paper in the Dominion to enlighten the farmers.—Yours truly, HENRY Moss.

St. Hove, Province of Quebec.

EMPORIUM SEED WHEAT.

SIR-We threshed the McCarling wheat yesterday, and it surprised us all by yielding 15 bushels of good clean wheat for the one-half bushel supplied by you. It is considered to be by far the best wheat in the neighbour-hood.—Yours truly, WM. J. E. Couse.

Wyoming, Sept. 15, 1872.

CUCUMBERS IN ENGLAND.

A correspondent of the Gardener's Monthly saw in Liverpool a new cucumber, four feet six inches, from China, called the Soolyqua. The best cucumbers for forcing are the Marquis of Lorne, British Challenge and Blue Gown; the first a fine fruit, straight as an arrow, two feet ferous zone extends right through the country. l ng green and crisp.

A HANDFUL of salt and ashes, mixed, thrown into a horse's food, is of great benefit as a condition powder. A little sulphur may also be added to advantage.

Canadian Progress.

POST OFFICE, AND POST OFFICE SAVINGS BANKS.—The general progress of the Dominion DANKS.—In e general progress of the Dominion is shown very clearly by the statistics of the Post Office and the Savings Banks. We have no doubt the Post Office statistics for the present year will present even a more favorable record than we had in 1871. In that year there were nearly twelve millions of miles traveled were nearly twelve millions of miles travelled in the Post Office service; the deliveries were upwards of twenty millions of letters and postal cards, twen y-two and one-fourth millions of newspa. e18, and upwards of one milli n regi-tered letters. The expenditure was \$1,271,006, while the revenue was \$1,271.000, while the revenue was \$1,079,767.77, leaving a balance against the P.O. department of \$191,-238.83. The d ficiency is less than we would expect, when we take into account the distances otten travelled to remote and sparcely-settled districts. The transacti ns in the Money Order Office amounted to \$4 537,902.41. The P.O. Savings Ba ks present also a very sa isfactory account. The Government has issued a document showing their progress and condition.— There has been a steady increase in the number of depositors from their commencement, 1st of April, 1868, to the date of the report, June 30, 1872. At that time they amounted to 21,059. The balance then due depositors was \$3,096,5.0. The balance then due depositors was \$3,096,50.91. The proportion of the depositors in Ontario is one in eighty-three, and in Quebec one in 786. The names of seven cities are given, viz.: Quebec, Mon real, Ottawa, Kingst n. Toronto, Hamilton, and London. In Hamilton, the proportion of depositors to the population is 1 to 12; in Kingston, 1 to 14½; in London, 1 to 15½; in Toronto, 1 to 18; in ttawa, 1 to 35½; in Montreal, 1 to 175; and in Montreal, 1 to 528. This relative proportion to the population. 528. This relative proportion to the population is a pretty fair index of the progressive prosperity of those classes who are principally de-positors of comparatively small sums in the Savings Banks connected with the Post Office. We have no neturn of the deposits in Savings Banks other than those of the Post Office. We have no doubt they are very large.

ONE GOOD RESULT OF THE RAILWAY.— The Kingston and Pembroke Railroad is already producing its effect in the development of the rich mineral country lying north of that city. The township of Bedford is rich in iron ore, plumbago and lead. Two of the most prominent iron mines are the Chaffey and Howe, which, since the Kingston and Pembroke Railroad has become a certainty, have changed hands, having been purchased by the National Iron Company. become a certainty, nave changed hands, having been purchased by the National Iron Company, of Danville, Penn., who, under the superintend-ence of Mr. Lewis B. Hyler, have already erected workshops on the premises, and will commence mining immediately, with a strong force of workmen, intending to get out about 100,000 tons per year, drawing this winter's production o the propo ed line of railway anticipating the construction of that portion of the line from Kingston by next spring, it will be shipped to the United States via Kingston. The iron is considered by Mr. Hyler, who is a thorough practical man, to be the best in Onta-

AIR LINE STATIONS.—The contract for the Railway has been let to Mr. Frank Shanly, of St. Thomas is to have a passenger Toronto. station 113 feet by 26 feet, and a freight house 145 × 40. Two platforms, 400 feet long by 15 wide, will be erected in front of the passenger station - one between the building and the station—one between the officing and the siding and the other between the siding and the main track. The freight house will have a platform 250 feet long and 10 feet wide. All the other stations along the line will have combined freight and passenger houses, with apart-ments for the station master over the ticket ments for the scatton master over the theket office. The Aylmer, Fredericksburg and Jarvis houses will each be 112×33 feet; the Tilsonburg and Cayuga, 148×33; and the Simcoe, 148×50. The latter will be a first-class state. 148 × 50. The latter will be a first-class station. All the buildings are to be finished by December 31st, and by that date it is expected that the track will be completed to Caufield that the track will be completed to Caufield. The rails are now laid as far east as Aylmer.

THE COVE MINE.—The English Mining Co. who lately purchased Tilt Cove copper mine, at the handsome figure of 150,000%, sterling, have lately sent out Professor Vincent to inspect the mine, the sale being contingent on his report.
Mr. Vincent stands very high as a mining engineer, economic geology being his speciality.

He has just returned from Tilt Cove, and speaks very favorably of the mine. The works speaks very lavorably of the lime. The works are in excellent order, and the productiveness of the mine as great as ever. It is every way likely the sale will at once be closed, and this company, having plenty of capital, will greatly extend operations. Prof. Vincent's opinion of the mining prespects of this country are very extend operations. Prof. vincents opinion of the mining prospects of this country are very favorable. He considers that a fine lead mine being at one end of the island and Tilt Cove-mine at the opposite, indicate that the metalli-

THE NORTHERN COUNTIES AS FIELDS FOR IMMORANT COLONIES.—York, and parts of Carleton and Victoria, N.B., have been specially favored in the location of immigrants. The last mentioned county is shortly to receive a

Kincardineshire colony, of whose success we entertain high hopes. The Harvey settlers, the Glassville and Knowlesville and Johnsville peole, the Scandinavians, are all doing well for the the Scandinavians, are all doing well for the up river counties and for themselves, and the Kiucardineshire settlers may well be expect-ed to do the same. There are other counties, however, containing the choicest lands, fine rivers, rich forests, fishing and other privileges, in which immigrants could do equally well, and in which immigrants are much needed, to which the special attention of immigrants has not been cirected.

TORONTO AND NIPISSING RAILWAY.-We believe that the rails have been laid to the present terminus of the road at Coboconk, and the whole line may now be said to be open for traffic. The energy of the directors in thus pushing the work on to completion is deserving pushing the work on to completion is deserving of great p aise. Under the able management of w m. Gooderham, jun., Managing Director, the road has already achieved a success which most roads can only attain after years of persistent effort. It is now ranked amongst the best managed and best paying Railways in the Dominion. We observe that the Company have lately added a number of box cars capable of carrying double the quantity of freight of the first on the line. These will be a great convenience, especially to the shippers of grain.

Revenue and Expendiques of the Do-

REVENUE AND EXPENDITURE OF THE DO-MINION. - The following is the statement of the revenue and expenditure of the Dominion of Canada for the month ending 31st August,

872:-	147			
Revenue				
Customs		81,	310,936	74
Excise			287,170	80
Post Office			79,040	76
Public Works, inch	uding rai	lwavs	116,388	73
Bill Stamps			22 100	00
Miscellaneous			36,340	57
		-		
Total		\$1.	851,977	60

Expenditure......\$1,042,901 48 CHEESE FOR THE OLD COUNTRY.-The Ingersol News, after quoting some remarks made by a Kingston contemporary with reference to the fact that about forty waggon loads of cheese passed through that city lately, consigned to Ingland, and the importance of the cheese interest, adds that—"It may be of some interest. to our contemporary and the public to know that it is not an unusual thing to see over two hundred and fifty waggon loads of cheese passto the old country. The daily average during the season undoubtedly exceeds fifty waggon loads."

CROWN LANDS SALE.—The sale of timber berths on the Miramichi took place as advertised in the Royal Gazette. The advance on the upset price from last year was from \$5 to \$8. The bidding was of the most spirited character, exceeding anything ever witnessed before in that institution. The sales realized at competition \$17,442, and the total receipts amount to \$35,000, being no less than \$7,054 in excess of the entire sales of the previous year. Presuming that the sales during the balance of the year do not exceed those of 1871, it will exhibit an increase in the receipts of not less than

RECENT reports by the Emigration Commissioners in Great Britain show that the outflow of English emigrants has become much greater than that of the Irish. Previous to 1869 the contrary was the case. In 1864 the number of English emigrants was 56,618, and of Irish English emigrants was 56,618, and of Irish 115,428; in 1871, about 100,000 persons left England to about 70,000 from Ireland. The loss of Ireland, however, in proportion to population, is much greater than that of either England or Scotland. Nearly four-fifths of all the emigrants from Great Britain find their homes in the United States.

G. W. R. TRAFFIC. - EXHIBITION WEEK. - A statement of the traffic over the G. W. R. during the week of the Provincial Exhibition at Hamilton, places the amount of receipts at riamitton, places the amount of receipts at \$150,700, and the numper of passengers carried at over 67,000. This is said to be much in excess of any week in the history of the road. It must afford the management of the line extreme satisfaction tha , lathough their resources were taxed to their utnost canacity delays in were taxed to their utmost capacity, delays in transportati n were quite trifling, and no accident occurred.

LAKE SUPERIOR SILVER .-- At a recent meeting of the New York Lyceum of Natural History, Prof. Henry Wintz exhibited some beautiful crystalized specimens of heavy tin stone of cassiterite, discovered a few months since on the most northerly shore of Lake Superior, near Neepigon Bay. The deposits are said to be extensive and valuable.

INTERCOLONIAL BRIDGE. -The Colonial Farmer informs us that the Intercolonial bridge across the Maramichi is progressing very satisfactority; and a n w stone abutment is being buit under the iron railway bridg crossing the Sackville It is 37 feet high, and co sists of 90) feet of mason work, and will be finished this fall.

LAKE SUPERIOR. - A very rich vein of tin has been discovered on the north shore of Lake Superior, of 160 miles b imbedded i pure tin, w Nova So mark ble tistics are showing t in 57 vesse new world THE PRO -The con cil and Bo visited H the propo St. Catha

> proj cted which an made by imm-diat Works' D to superin CANAD. Sir Hugh construct that he negociate RICH S Mining (

HARBO

which wi OTTAV estimated this city Hull has by immi NEW have bee boat Con route ne More

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THE 1 slowly, is com being t clear s chalky cracks tween when tree, a wood, and b years the gr

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upon the surface.

the proposed railway from Queenston through St. Catharines.

HARBOR IMPROVEMENTS AT KINGSTON .- The

proj eted harbor improvements at Kings on, for which an approp itti n of \$100,000 has been

which an appropriate no \$100,000 has been made by the Government, are to be commenced immediately. Mr. Douglas, of the Public Works Department, has been sent to Kingston to superintend the works of the improvements.

CANADA PACIFIC RAILWAY .- It is said that

Sir Hugh Allan has secured the contract for

constructing the Canada Pacific Railway, and

that he will proceed at once to England to

RICH STRIKE OF SILVER ORE.—The Windsor Record is informed that the North Shore Silver

Mining Company have struck rich silver ore at

a depth of only eight feet from the surface, which will produce \$50 of silver to the ton.

OTTAWA.—An Ottawa paper says:—"It is estimated by Mr. Willis, Immigration Agent at this city, that the population of Ottawa and Hull has been increased at least two thousand

NEW STEAMERS.—Two splendid steamers have been acquired by the St. Lawrence Tow-boat Company, and will be put on he Sagu nay route next season, making it a daily line.

MORE IMMIGRANTS. - Within the past three

weeks 150 immigran's arrived at Montreal, most of whom have found good employment.

Miscellaneous.

THE NATURE AND PRESERVATION OF

TIMBER.

slowly, on soil rather dry than moist, and is compact and heavy, the annual rings

being thin and uniform, showing a hard,

clear surface when cut and not a dull or

chalky one, free from clefts or radical

cracks, and from cupshakers or cracks be

tween the annual layers. Timber is best

when cut at or near the maturity of the

tree, as a young tree has too much sap-

wood, and an old one is likely to get hard

and brittle at the core. Probably fifty years is the least and one hundred years

seasons for felling is when the sap is quiet,

or in midsummer and midwinter. Timber

exposed freely to the air in a dry place,

sheltered from the sun and rain, requires

two years and upwards, according to the size, to become well seasoned. A small

part, however, of the material put into our

public works receives sufficient treatment

in this respect, and hence the short life of

the majority of these structures. Artificial

to a current of hot air. Timber loses in

drying from 15 to 30 per cent. of its weight,

and shrinks across the grain from 2 to 5

will not resist so much, but it does not de-

cay. Piles placed in the Rhine nearly 2,000

es are still in good condition. Many high-

The best timber is that which has grown

negociate for the necessary funds.

by immigration this spring."

RAILWAY. -We en laid to the Coboconk, and rectors in thus on is deserving e management aging Director, r years of per-Railways in the the Company ox cars capable y of freight of l be a great conpers of grain. E OF THE Dotatement of the Dominion of 31st August,

...\$1,310,936 74 79,040 76 ays 116,388 73 22 100 00 36,340 57

..\$1,851,977 60

...\$1,042,901 48 RY.—The Inger-marks made by reference to the loads of cheese ly, consigned to of some interest public to know to see over two s of cheese passay for shipment average during eds fifty waggon

e sale of timber place as adveras from \$5 to \$8. pirited character, nessed before in realized at comreceirts amount n \$7,054 in excess he balance of the 71, it will exhibit of not less than

igration Commis-that the outflow me much greater 864 the number of 18, and of Irish 0,000 persons left om Ireland. The roportion to popu-hat of either Eng-our-fifths of all the n find their homes

BITION WEEK. - A the G. W. R. durcial Exhibition at unt of receipts at passengers carried be much in excess of the road. It nt of the line exough their resources capacity, delays in trifling, and no

-At a recent meet am of Natural Hishibited some beau-of heavy tin stone of months since on the cake Superior, near sits are said to be

-The Colonial Farm. nte colonial bridge gressing very satise abutment is being v bridg crossing the igh, and co sists of will be finished this

y rich vein of tin has

Superior, opposite Mishmacotton Island, about | painted, the moisture within will be unable 160 miles below Silver Island. The tin is pure, imbedded in quartz and large veins. Lumps of pure tin, weighing several pounds, were found to escape, and will cause decay. Several different methods of preservation are now in use, contisting of an injection of different chemical preparations into the pores. Nova Scotia Coal. —There has arisen a remarkable dama d for Nova Scot a coal. Sta-Chapman's process employs sulphate of iron (copperas); Kyan's process, corresive tistics are published in a Lower Province paper, showing that in one week, ending September sublimates (bichloride of mercury); Bennett's process, chloride of zinc; Boucherie's 28th, 4,211 tons coal were shipped from Preston method, sulphate of copper; and Mr. in 57 vessels, to various points in the old and Bethnell saturates the timber with creo-THE PROPOSED NEW RAILWAY AT QUEENSTON. sote. In these several operations the air The committees appointed by the Town Council and Board of Trade of St. Catharines lately is exhausted from the tank in which the visited Hamilton to conter with the Directors timber is placed, and the sap drawn out of the Great Western Railway in reference to

from the pores, and the solution forced in. The woody fibre is seen by the microscope to consist of long, slender tubes, upon the tenacity of which depends the tensil strength of the timber. The lateral adhesion or the strength across the grain depends upon the adhesion of the sides of the tubes. The pines, or cone-bearing trees, have a straight and regular fibre, and are well adapted to direct tensil strains; but the lateral adhesion is small, so that they are split along the grain, and much less suitable to resist the shearing endwise, or sliding of the fibres on each other, than the hard woods.—Ex.

## IMMIGRATION INTO CANADA.

Under the above heading the New York

Herald makes the following remarks upon

the progress of Canada in material prosper We think our northern neighbors slow. So they are, if we contrast their his tory with ours for the past century. Still the statistics show that during the last decade Canada has received by immigration au addition of more than forty per cent to her population, and during the last thirtythree years more than twice doubled her number of inhabitants, counting now two and a-half millions, against half a million a third of a century ago. As our popula-tion exceeds that of the Canadian Dominion by more than ten-fold, it is natural for us to look upon her growth as insignificant. Yet, since the breaking out of our late war, she has gained at a more rapid proportionate rate than we have, our increment of population having been thirty-five per As Canada has three hundred and cent. fifty thousand square miles of territory, being equal in extent to Great Britain, France and Prussia, or six times the size of England and Wales, she has as yet only ten persons for each six hundred and forty acres of land. Consequently, she has abundance of room for all who may come to find homes upon her fertile soil, or to win fortune from the abundant facilities she offers for profitable commercial or industrial enterprise. Should she continue to grow at her present rate till the end of this find homes upon her fertile soil, or to win fortune from the abundant facilities she the greatest age at which the ordinary kinds of wood should be cut. The best offers for profitable commercial or indusgrow at her present rate till the end of this century, she will then have a population of twenty millions, or about half our present number. Though events do not move with a rush so rapidly beyond our northern frontier as on this side of it, Canada has vast enterprises which mark her population as embracing the same elements of thrift which are developing our own greatness. Her great rivers and excellent harbors, her seasoning is effected by exposing the material, properly piled in a suitable building, canals and railways, when completed, will offer to the product of her fields, forests and mines easy means of export, while her rapidly growing and prosperous population will furnish abundant consumers for the per cent. Wood lasts longest when kept dry and well ventilated. When kept confabrics with which Europe balances the traffic. It cannot be doubted that for stantly wet it is somewhat softened, and British subjects who wish to escape the over-crowding and excessive competition in all industrial and commercial pursuits years ago have been found quite sound "at home," and who hesitate about trying during the present century, and the roof our experiment of self-government, Canada timbers of some of the older Italian churchoffers abundant hope for an improved condition, and it is fair to believe that for way bridges in this country are apparently several decades she will receive a constant uninjured by from 40 to 50 years' use; the and liberal flow of immigration, and that railway bridges, made of good material and the two English-speaking nations must carefully protected, have been in service control the destinies of North America. If, for twenty years, and are yet in good order. in time, Canada wishes to take her place Wood decays the fastest when alternatein the constellation of stars upon our banly wet and dry, or when subjected to a hot, | ner of freedom, we hold ourselves ready to moist, close atmosphere. Thorough seasoning, protection from the sun and rain, and comply with the dictates of 'manifest destiny.' Should she prefer to stay out of the the free circulation of air, are the essentials to the preservation of timber. Oil paint | Union, we shall still be true friends, generwill protect wood from moisture from ous rivals, and good neighbors. Her proswithout, but unless it is perfectly dry when perity will only stimulate ours,

HOW TO DRIVE RATS AWAY WITHOUT POISON.

We know of three methods:—First, the old French plan; this is followed chiefly in Paris by men who make it a special business. They take a deep tub with water on the bottom, and a little a available like an island. a little e evarion in the middle, like an island, on which is only place for just one rat to sit en. on which is only place for just the rate to store the top is covered, and a large balanced valve, opening downward; on the middle of this valve a piece of fried pork r cheese is placed; when a rat walks on it to get the cheese, the valve goes the valve goes to the water and moves. down, drops the rat into the water, and moves back in p sition. A road is made from a ra-hole to the top of the tub, by means of a piecof board rubbed with cheese, so as to make the walk attractive for the rats. In the course of a single night some ten, twenty, or even more rats may go down, and if the island was not there they would be found most all alive in the morning quietly swimming round; but the provision of the little kindness saves the trouble of killing them, for their egotistic instinct for self-preser vation causes them to fight for the exclusive possession of the island, on which in the morning the strongest rat is found in solitary possession, all the others being killed and drowned around him. Second, the New York plan invented by one of our friends. The floor near the rat hole is, covered with a thin layer of a moist caustic potassa. When the rats walk on this it makes their feet sore; these they lick with their tongue, which makes their mouths sore; and the resul is, that they shun this locality, not alone, but appear to tell all the rats in the neighborhood about it, and eventually the house is entirely abandoned by them notwithstanding the houses around may be full of rats. Third, the Dutch method. This is said to be used successfully in Holland; we have, however, never tried it. A number of rats are left together to themselves A number of rats are left together to themselves in a very large trap or cage, with no food what ever; their craving hunger will cause them to fight, and the weakest will be eaten by the strongest. After a short time the fight is re-newed, and the next weakest is the victim, and so it goes on till one strong rat is left. When this one has eaten the last remains of any of the this one has eaten the last remains of any of the others, it is et loose; the animal has now acquired such a taste for rat-flesh that he is the durred such a taste for rathesh that he is the terror of rathem, going round seeking what rathe can devour. In an incredibly short time the premises are abandoned by all other rats, which will not come back before the cannibal rathas left or died. - Manufacturer and Builder.

A SIMPLE REMEDY FOR DANDRUFF. There are, doubtless, few persons, especially among gentlemen, who do not suffer from the inconvenience of dandruff. Physicians do not consider it of sufficient importance to engage consider it of sufficient importance to engage their attention, and the poor victims are left to practice their endurance, or, for a cure, to try some of the many nostrums advertised in the public prints. The intolerable itching which accompanies the troublesome complaint is not the only unpleasant feature; as to persons of any pretensions to neatness, the appearance of the white scales on the coat collar and shoulders is very objectionable. The writer, during a is very objectionable. The writer, during a number of years, tried the different alcoholic solutions of castor oil, and many other preparations. thinner, and perhaps would have soon disappeared altogether. The belief that dandruff arises from a disease of the skin-although physicians do not seem to agree on this point and the knowledge that the use of sulphur is frequently attended with very happy results in such diseases, induced me to try it in my own case. A preparation of one ounce of flour of sulphur and one quart of water was made. The sulphur and one quart of water was made. The clear liquid was poured off after the mixture had been repeatedly agitated during an interval of a few hours, and the head was saturated with this every morning. In a few weeks every trace of dandruff had disappeared, the hair become seft and glassy and row, after a disappeared. became soft and glossy, and now, after a dis-continuance of this treatment for 18 m nths, there is no indication of the return of the disease. I do not pretend to explain the modus disease. I do not pretend to explain the modus operandi of the treatment, for it is well known that sublimed sulphur is almost wholly insoluble, and the liquid used was destitute of taste, color or smell. The effect speaks for itself. Journal of Pha macy.

MAKING AND REPAIRING THE ROADS. MAKING AND REPAIRING THE ROADS.

A writer in the Colonial Farmer, Fredericton, N.B., proposes a change in the whole administration of the keeping in repair the roads of the Province. We doubt not some of the farmers of Ontario, who complain of being mud-bound in the fall and spring, would wish for some change to improve the roads in their vicinity. The writer thus speaks of the cost at present of their road-making, and proposes a change in the management:

present of their road-making, and proposes a change in the management:

"It is often the boast of those who write of the attractions New Brunswick offers to intending emigrants, that no settled portion of our Province is without its good highway road kept in repair at public expense and free to all who use it; and it is true that large sums of money have been and are annually expended upon our

roads and bridges. The annual grant for this purpose is about \$175,0.0; the statute labor amounts to about \$160,000, making \$335,000 the total amount expended upon roads and bridges. It will scarcely be claimed that this large sum of one third of a million is in all cases wisely and carefully expended. As a means of attaining this desirable end (employ-ing those who are best qualified for the work), I would suggest that the following changes be

"1. That each county be charged with the maintenance and repair of the roads and bridges within its limits, so as to render it liable for all damages resulting to travellers or their conveyances by rea on of the reglect of this duty.

2. That an officer of road commissioners be established for each county, with a fixed salary,

without commission; the duty of the incum-bent to be the expenditure of the road money from whatever source derived.

"3. That statute labor be abolished, and a

money tax substituted.

"4. That the offices of Supervisors of great roads, byc-road · ommissioners, and Surveyor of roads be abolished."

### THE ENGLISH HARVEST.

The following statement is from returns collected at the office of the London Agricultural Gazz te:—Of 262 reports on the wheat crop, 135 state it to be an average crop, 98 put it at low, and 29 above an average. Of the 255 barley reports, 111 pronounce it to be an average. barley reports, 111 pronounce it to be an average, 95 below, and 49 above an average. Of the 262 returns of the oats, 129 dec are it to be an average, 26 below and 107 above an average. Of the 186 returns of the bean crop, 94 put it at an average, 9 below, and 83 above an average; and of the 187 reports of the pea crop, 10 put it at an average, 38 below, and 49 above an average. The pea crop also is unusually good. Wheat, on the other hand, must be pronounced decidedly below an average crop on the whole, and barley as an average. whole, and barley as an average.

## IRON RUST ON WHITE GOODS

A remedy tried and found effectual, is this: One ounce of oxalic acid dissolved in one quart of water. Wet the iron rust spots in this solu-tion and lay in the hot sun; the rust will disappear in from three te twenty minutes according to its depth. By holding the cloth, wet in this solution, over the steam of a boiling tea kettle, the rust disappeared almost instantly. In either cese, the cloth should be well rinsed in water as soon as the rust diss ppears, to prevent injury from the acid. Many use this acid to remove fruit and ink stains rom the white fabrics. When diluted still more, it may be used to remove fruit stains from the hands.

## LUCK AND PROFIT.

Under this heading, a writer in the Bee-Acceper's Journal advises Dec-keepers as follows:

—I desire to tell bee-keepers how to have luck
and profit in the apiary. Have your hives
placed so that you can get to the rear of them,
and then never let the grass grow there. You
must tramp it out, however, and while you
are doing this, work with the bees. Work intelligently, guided by some good journal, and are doing this, work with the bees. Work in-telligently, guided by some good journal, and a good work on the subject. I winter in double rows, with a space of two inches be-tween walls, which is filled with straw. I have wintered this way for two years with perfect

BENEFIT OF RAILWAYS.

The following from an impartial Toronto paper, is regarding the benefit railways may be paper, is regarding the benefit railways may be to a country at large:—" As an illustration of the advantage of railway communication, it is mertioned that from the township of Uxbridge and immediated eighbourhood about seventeen thousand cords of wood were sold, at an advance of two dollars per cord on the price previously obtainable. Here is \$34,000 realized on a single article at one station of the Nipissing railway during one year. This fact is worth a dozen arguments to show how railways benefit the country.

COAL AND PEAT. Coal has risen so much in price in Britain that there is a strong agitation getting in favour of using peat, and setting taupers and criminals to digit in large quantities. The supply, is is said, is in Scotland and Ireland unlimited. We heard a great deal about peat companies in Canada a year or two ago, and the possibility of \$3 a ton, quite equal in heating power to a cord and a half of wood. What has become of the project? has it gone to join many other unrealized projects? Coal and wood are still dear enough in Canada to encourage, one would think, such come CANADA THISTLES.

The board of supervisors of a county in Illinois appointed a committee on Canada thistles, to collect all the information possible in regard to that weed, and possible in regard to that weed, and report. They solicit facts on the following points:—lat. Give township section and owner of farm on which Canada thistles are growing, or have been, and destroyed. 2nd. Where and how and from what place imported. 3rd. Present space of land occupied. 4th. How they have been killed out after being thoroughly rooted.

A new method of washing has been ext nsively ado, ted in German o obviate the ill-effects of sed on linen. The operation consists in dissolving two pounds of soap in about three gallons of water as hot as the hand can bear, and aiding to this one table-s confut of tur-pentiue and three of liquid ammonis; the mixtur must then be well stirred, and the lineu steepen in it for two or three hours, taking care to cover the vessel which contains them as near y herme ically a possible. The clothes are aft rwar s wash dout a d rinsed in the usual way. The soan and water may be re-h a el and used a se ond time, but, in that case, half a a lesponful of turpen ine and a table-spoonful of ammoria must be added. The linen scarce y suff roat all, as there is little necessity for rubbing, and its clea liness and color are perfect.

### REMEDY FOR WHITE HAIRS.

A correspondent of the Massachusetts Ploughman recommends the following remedy for the white hairs which sometimes appear on horses from the use of the saidle. Take a piece of lard large enough to give the spot a thorough greasing; tub the sam with the hand until it becomes right hot, repeating the opera tion at least three or four times, and the white hairs will soon come out, and hair of a natural color take their place.—Live Stock Jour. (Buf-

### EXCELLENT PREMIUMS.

The I wa State Agricultural Society offers a premium of one thousand dollars for the best ten acres of artificial timber, payable in 1881; five hundred dollars for the best cultivated farm, payable in 1875; two hundred and fifty dollars, payable in 1878, for the best orchard of tensacres and two hundred dollars for the best mile of h-dge, payable in 1877.—Live Stock Journal (Buffalo.)

## DAIRY FACTORIES IN ENGLAND.

The London Milk Journal says:- In Eng land the system of Associated Dairies steadily gains ground, and butt r factories on this prin ciple are b ing opened. The quality also of the butter is steadily improving and bids fair to rival that produced in Holstein and Mecklenburg, which now stands first in that market.

## WHOLESALE STARVATION.

The Union Intelligence of Texas reports that mor- than one half of the cattle in the western part of Texas have died from starvation during the past winter. From other sources we also learn that the mortality among the cattle of Texas and Southern Kausas has been very great .- Prairie Farmer.

GRAPE LEAVES are said to be in many respects superior to hops for making yeast. The bread rises so ner, and has not that peculiar taste to which many object in that made from hops. The directions are to use eight or ten leaves for a quart of yeast, boiling them about ten minutes, and pouring the hot liquor on the flour, the quantity of the latter being determined by whether you want the yeast thick or thin. Use hop yeast for raising it to begin with, and a terward that made of the grape leaves. Dried leaves are equally as good as fresh. S metimes the yeast has a dark film over its surfac when rising, but this entirely disappear. when stirred.

THE VARIETIES of wood produced in different parts of the world are for more numerous than mos people are aware of. At the Paris Exposition of 1867 there were, from 45 different countries, no less than 3,769 different kinds of wood exhibited, 3.55 coming from Europe, 252 from Asia 9.66 from Oceania. from Africa, 858 from Asia, 966 from Oceania, and 1,298 from America.

To REMOVE old putty from broken windows dip a sm dl brush in nitrie or muriatic acid (obtainable at any druggist's), and with at anoing or paint over the dry putty hat adheres to the broken glass and frames of your windows; after an hour's interval, the putty will become as soft as to be removed easily.

THE SMALLEST steam engine in the world is in possession of John Penn, of Greenw ch, England. It will stand on a three-penny piece, and really is smaller than the coin, for its baseplete is only three-eighths by about three-tenths. Its whole weight is less than three penny-weights

DRIED alderberries eaten will, it is said, cure ringworm.

AGRICULTURAL EMPORIUM.-It is our intention to again petition Parliament at its next session for an Act to allow us to form a joint stock company to carry on the Agricultural Emporium. We could now form a company for the ADVOCATE, but consider that the results would be more beneficial if both were carried on together. You will be informed if our petition is fearing her spelling might not be just right granted, and an opportunity will be given added this postscript:— You must excuse this you to have a voice in its management. you to have a voice in its management.

## Old England.

Old England though she be Her bulwarks yet are sound, And she the lairest vessel That ever sail'd earth round:— That ever sail'd earth round, my lad! And you will live to see Her name go round the world again
As the watchword of the free: For so it shall be to the end, As of yore, as of yore:— One cheer, then, for Oil England! And one cheer more

The masts are firm and fine; The keel is straight and true; Her ancient or so of glory
Rides blazing through the blue:—
Rides blazing through the blue, my lad! While underneath it go The strong and stubborn hero-hearts

Who smile at storm and foe; Like lions onward to the end, As of yore as of yore:-One cheer, th n, for Old England! And one cheer more !

Prophets of wreck and woe, There is no place for you.

Weak-knee'd and coward-hearted,
Among the bold and true:

Among the bold and true, my lad!

Who, as the waves run high,

And they can almost touch the dark,
Behind it see the sky;
True to the core, and to the end, As of yore, as of yore: -One cheer, then, for Old England! And one cheer more !

As youth disguised in man,

Although her build be changed, It is the same Old England That erst o'er ocean ranged That still has kept the seas, my lad! Since Danish raven flew, To him who off Trafalg r fell, The tender and the true.

Unchanged 'mid changes to the end, As of yore, as of yore:— One cheer, then, for old England! And one cheer more !

Blow, then, great tempests, blow; White lightnings. seam the blue; There is no fear for England With such a boat and crew!
With such a fame and name, my lad!
The watchword of the free; The thought of what her sons have been,

And what they yet will be; And God beside her to the end, As of yore, as of yore: One cheer, then, for Old England! And one cheer mere!

-People's Magazine.

## The Haggis.

An advertisement in a Western paper informs the public that beard for the summer can be obtained at a large and shady brick gentleman's residence in the country.

A Connecticut editor says:-" Our early peas came up in two days after they were planted this year." Any one's peas will do ikewise if the hens are allowed to run in the

" Wife," said a man, looking for a bootjack, "I have places where I keep my things, and you ought to know it." "Yes, I ought to know where you keep your late hours, but I don't.

An old lady gives this as her idea of a gentieman: - 'One who is kereful of his clothes, don't drink sperets, ken read the Bible without spelling the words, and eat a cold dinner on wash days without grumbling.

A lad arrested for theft when taken before the magistrate and asked what his occupation was, frankly answered. "stealing." "Your candour astonishes me," said the judge." "I thought it would," responded the youth, "see ing how many big uns there are in the business, and is ashamed to own it."

A negro who was suspected of surreptitiously medding with his neighbor's fruit being caught in a garden by moonlight, nonplussed his detectors, by raising his eyes, c asping his han s, and plously exclaiming.
Good Lord! this yere darkey can't go nowheres to pray any more without been

'sturbed." There is a young lady in Milford who has been taking music lessons on the piano for some eight years. The other day she sent an order to a m sic store in New Haven, and

## Youths' Department.

## UNCLE TOM'S COLUMN.

Here we are again, children, ready for a frolic with you all. Winter is coming on again, and the long evening around the fire will give us time for indoor amusements. How pleasant it is to see a whole family athered in the evening rea iy to make home happy, and each one, rom the gray-haded tather to the little one on the doing his or her part in amusing the rest!

H.C. Brown, berlin, sends a sacres to becape tations and Alphab tical Puzzles; and also to Deca itations to the Puzzle which puzzled him, below I hn G.bson, jun, sends answers to Decapitations, Double Ac ost c, Alphabetical Pozzle, Square Word, and 17 pieces of wood Puzzle. S. Wherry jun, sends his answer tool te, as the month is post.

ANSWERS TO PUZZLES IN OCT. NO.

DOUBLE ACROSTIC. Paris, on the Riv r Seine.

DECAPITATIONS. 1-O-possum, 2-P-ear, 3-T-rent, 4-G-host, 5-M-iak, 6-B-read,

ALPHABETICAL PUZZLE - He-r-o-ine. / Rose Oxen SQUARE WORD-Rend

PUZZLE.

PUZZLES FOR NOV. NO. DECAPITATION.

1. Behead a small animal and leave a large one.
2. Behead an animal and leave part of the

human body.

3. Behead a small animal and leave a prepo Behead a grain and leave a preposition.

5. Behead a grain and leave a personal pronoun.
6. Behead a grain and leave what we fee!

PUZZLE No. 1.—A lady met a gent'eman on the s'reet; the gentleman said, 'I think I know you;" the lady said he ught, as his mother wa her mother's only daughter. What relation

## ACROSTICS.

Summer now has pas'd away, Ushering Autumn in again-Making hearts feel light and gay; Mirth and gladness now shau dreign; Every barn is filled with gran, Ready now for snow and rain.

Autumn, the ri hest of the four, Unladens now her precious store; The leaves ecay, hey dr op and die, Under the trees they withered lie; Make ready now for frost and snow North winds will soon begin to blow.

## THE POLE KAT.

My friend did you ever examine the fragrant pole kat clusly? I guess not, they are a kritter who won't bear exam-

I guess not, they are a kritter who won't bear examining with a microscope.

They are butiful beings, but oh! how desceptive.

Their habits are phew but unique.

They are called pole kats bekause it is not convenient tew kill them with a klub, but with a pole, and the longer the pole the more convenient.

Writers, on natural history disagree about the right length of the pole tew be used, and I would suggest that the pole be about 365 feet, espeshily if the wind is in favor of the pole kat.

When the pole kat is suddenly walloped with a long pole, the fust thing he she or it does is, to embalm the air for menny miles in diameter with an akrimonious olifactory refreshment which permeates the etherial flewid with an entirely original smell.

The smell iz less popular in the fashionable world than lubins extract, but the day may cum when it will be bottled up, like musk, and sold for 87½ cents per bottle, bottles small at that.

One pole kat in a township is enough, espeshily if the wind changes once in a while.

A pole kat's skin is wuth 2 dollars in market, after it is skinned, but it iz wuth \$3.50 to skin it.

This iz one way to make 12 shillings in a wet day.—

Josh Billings.

STOCK SALE. - Col. Taylor, of this city, sold his first prize short-horn bull calf, 'Duke of Springwood," to Mr. W. Bell, of Shakspeare, for the sum of \$500.

To CLEAN CARPETS. - Salt sprinkled upon the carpet before sweeping will make it look bright and clean. This is also a good preventive against moths.

## Editorial Notices.

"Outside the thoroughbred class there were two animals especially deserving of notice.— One was a four year old coach-horse, 'Sir John One was a four year old coach-horse, 'Sir John Stevenson,' imported from Yorkshire at a cost of \$1500, and the best we have seen here; the other, a general-purpose stallion, 'Canadian Lopard,' by 'Anglo-Saxon,' out of a 'Leopard' mare, five years old. owned by Mr. G. McKay, Delaware, and as well-built factive a horse for Delaware, and as well-built, active a horse for his age as one could wish to see.

[We extract the above from the Toronto Mail's account of the Western Fair. There are many of the "Anglo-Saxon's" colts now improving the stock of the country. We are aware the management of the horse was not satisfactory either to the owner or the public during the first attempts to establish the Agricultural Rus first attempts to establish the Agricultural Emporium; but, despite prejudices that have been raised and attemp s made to trample both the raised and attemp s made to trample both the horse and the Emporium out of existence, it is still pleasing to see the horse's stock venturing to rival any importation. No attempt has ever been made to rank "Anglo axon as a rival to the heavy deaft horses or the fast st roadsters; but for beauty, docility, hardiness of constitution, and general utility as a carriage and general-purpose horse, we still believe him to be as useful and valuable a horse for the improving of our stock as we can procure. improving of our stock as we can procure.— We yet expect to see the Emporium and the Emporium horse both holding the position to which they are so pre-eminently entitled.]

MANITOBA PEAS. -We have had the pleasure MANITOBA PEAS.—We have had the pleasure of hearing from our old subscriber, Mr. J. D. Campbell, Stapleton, Manitoba, and receiving from him by mail a small package of the v ry valuable pea that is of so much importance to the stock-owners of the great Northwest. This package indigence to the country, and enringer the stock-owners of the great Northwest. This pea is indigenous to the country, and springs up from year to year on the prairie, giving an abundant and highly nutritive food to the rapidly-increasing herds, as well as to the bison. We hope, from the package of seed sent us, to be able to raise a considerable quantity and test its value for agriculturists in this section. Mr. Campbell will accept our thanks for his kind remembrance of us. kind reme ubrance of us.

PHOTOGRAPHS.—We have just received from Messrs. Notman & Fraser two Photographs, cabinet size, of his Excellency Earl Duff rin, Governor-General. Messrs. N. & F. are well known as first lass artists not only in Canada but in England and France. The photographs before us are sp'endidly exe uted, and calculated to bring additional praise to this well-known firm. The photographs may be seen at this office.

PEARS.-From Mr. W. Grieve, of Westminster, we have received a very choice and fine assortment of pears, which we think equal to any seen at any exhibition, and far superior

ENGLISH THORN.—We have received a pack age of English thorn seed from G. B shop, of Adelaide. He has hedges from the same kind of thorn.

RESOLUTION OF DELAWARE TOWNSHIP COUNCIL.

The following is a copy of a resolution passed by the Delaware Township Council on the 14th of October, 1872:-M vel by Mr. Fi ld, seconded by Mr. Har-

ris—That in c nseque ce of an erron ous survey and by the law of limitation Mr. Weld was deprived of a portion of his land and a quen ity of valuable timber, and further, paid heavy law ex en es in testing the matter this Council wou d therefore recommend him to the consideration of Government believing him to be justly entitled to some remuneration.

Further, we fully recognize and appreciate his efforts in advancing the interests of the farming community by the publication of the FARMERS' ADVOCATE, and by the introduction and dis eminat on of seeds and roots. Carried. JOHN JOHNSTONE. Tp. Clerk.

## ELDERBERRY WINE.

Elderberries, 10 gallons; water, 10 gallons; white sugar, 45 pounds; red tartar, 8 ounces; ferment with yeast in the usual manner. When in the cask, add gingerroot, sliced, or allspice, 4 ounces; bitter alors, 4 ounces, suspended in a bag, may be allowed to infuse in the liquor when it is fermenting; they are then to be removed. Brandy may be added or not. When the wine is clear, which will be in about three months, it may be drawn off from the lees and bottled. The spices may be varied according to taste.

A New York paper says, "that the streets of that city are now in a much c'eaner con lition than a few weeks ago, and that by holding a handkerchief to one's nose, it is possible to pass through several of the thoroughfares." Emporiu

Carter's Op n Carter's Tile Patent Stump Little Giant Forfar's Chur Churns, other Chaff Cutter from \$16 to Gardiner's R Horse Power

Jones' Amal farms, &c., Matheson's I Improved Cl rollers, \$8 Taylor's Pat from \$35 a Lamb's Pate Lockman's \$35.

Gardner's Pa Gates' Pater Osborne Sev Wood's Sew Fo far's Ro Provincia

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(Form 1st —Th Morton F complete v and Talks

66 Is from "Adam" stock-rais Lord Wes by wr. Ha Morris. Western judges to ada. Fo

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Toronto Mail's

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ARE TOWNSHIP

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## Emporium Price List for Nov.

Carter's Op n Ditching Machine. \$160. Carter's Tile Ditching Machine. \$13. Patent Stump Extra-tors. \$50, \$75, \$100. Little Giant Thresher, \$185. Forfar's Churn, Pride of the Dairy, \$4.50. Churns, other varieties.

Chaff Cutters on the most approved principles, from \$16 to \$50.
Gardiner's Root Cutters, from \$28.

Horse Powers, a'one, \$55. Cider Presses, single gear \$32, double gear \$36. Jones' Amalgam Bells, for schools, churches, farms, &c., from \$10 to \$120.

Matheson's Patent W shing Machine, \$10.

Improved Clothes Wringer, with indian 1ubber

rollers, \$8.

Taylor's Patent Burglar and Fire Proof Safes, from \$35 and upwar!s. Lamb's Patent Knitting Machine. \$53. Lockman's Patent Sewing Machine, \$30 and

\$35.
Gardner's Patent Sewing Machine, \$30 and \$35.
Gates' Patent Sewing Machine, \$35.
Osborne Sewing Machine, \$35.
Wood's Sewing Machines, \$60, \$85, and \$100.
Fo far's Root Cutter, \$6; took first prize at
Provincial Exhibition, 1872; efficient and

cheap. Sim son's Cattle Spice, 25c. per packet.

## London Market-Oct. 28. White Fall Wheat, per bush.\$1 15 to 1 23 Peas..... 0 55 to 0 65 Oats . . . . . . 0 34 to 0 36

## Great Western Railway.

Trains leave London as follows :-GOING WEST. -12.50 p. m.: 5.25 p.m.: 2.45 a. m: and 5.45 a. m.

Going East.—6.00 a. m: 8.40 a. m.: 12.35 p.m.: 4.40 p.m.: 11.35 p. m; and 1.15 a.m.

## Grand Trunk Railway.

Mail Train for Toronto, &c., 7.30 a. m.; Day Express for Sarnia, Detroit and Toronto, 11.25 a.m.; Accommodation for St. Mary's, 2.45 p.m.

The Farmers' Advocate, edited in London, Ont. D. C. Terms, I per annum, if in advance; \$2.5 in arrears; postage prepaid. Advertisements loc per line, agate space. Communications and alvertisements should be in the office by the 15th of the month to ensure usertion in the following number. Postage and all other expenses charged on collection of accounts, if in arrears,

## TO HORSE OWNERS.

HORSES COMPLETELY CURED OF ALL vicious habits, such as Kicking Balking. Runnius away, &c. &c. Advice free. Address M. J. BARROWS, Box 288 BALAVIA. N. Y. 11-2

## FARMERS, Improve your Stock of Pigs.

THE SUBSCRIBER has at GREAT EXPENSE secu ed the services of the following Boars, in orde to improve the stock of pigs in this section of the country. They will be found at the

"MIDDLESEX HOTEL," over Blackfriar's Bridge,

## KENSINGTON,

(Formerly called Petersville,) London, Ont.

1st —The Essex Boar bred by Joseph Harris. Esq., Morton Farm, Rochester, N. Y., (author of t.e., emplete work, "Harris on the Pig." and "Walks and Talks." in the 'American Agriculturalist,")

## "Young Adam"

Is from the universally known imported Roar, "Adam" bred by Mr. Thorne, the noted English stock-reiser, and renowned improver on the old Lord Western breed of t.sex-mis on ther is owned by wr. Harris, and is from the stock of the late Col. Morris. Young 'dam' took the nize at the Western Fair in 1872, and is pronounced by all judges to be the nandsomest hog of his class in Canada. For further pedigree, vide "Harris on the Pig."

2nd.-The celebrated Suffolk Boar,

## "Captain Jinks,"

Bred by George Martin, Esq. of Port Dover, Ont ; S're, "Stoum King;" Grandsire, "Snow Ball," imported. Dam. Empress;" Grand Dam. "Ida;" Grent Grand Dam. "Prumose." There rigs have taken First onz satevery Fair either in the United States or Canada, at which they have been exhibited \$550 was offered and refused for "Storm Kine." and "Captain Jinks" cost his present owner, at 3 months old. \$110.

Teams—Very liberal and Some cost for capital

TERMS.—Very lib ral, and Sows sent for service will be well taken care of at the smalle t possible expense.

R. C. McDONALD, "Middlesex Hotel," Kensington. near London, Un .

## **MERCHANT'S** CARGLING

IS GOOD FOR

Burns and Scalds, Chilolains,
Sprains and Bruises,
happed Hands,
Flesh Wounds, Fro t Bites, External Poisons, Sand Cracks,

Rheumatism.
Hem' thoids or Piles
Sore Nipples.
Caked Bleasts,
Fistula, Mange.
Spavins Sweeney,
Scratches or Greese
Stringhalt, Wind-

Sand Cracks,
Galls of All Kinds,
Striast Ringbone,
Poll Evil,
Bites of Animals and
Insects,
Toothache, &c , &c

Stringhalt, Wind
galls,
Cracked Heels,
Foo Rotin Sheep,
Koup in Poultry,
Lame Back, &c.

Large Size, \$1.00; Medium, 50c.; Small, 25c.

The Gargling Oil has been in use as a Liniment since 1833. All we ask is a fair trial, but be sure and follow directions. Ask our nearest Druggist or dealer in Patent Medicines, for one of our Almanacs, and read what the people say about the Oil

acs, and read what the people say about the Oil.

The Gargling Oil is for sale by all respectable dealers throughout the United States and other Countries

Our testimonials date from 1833 to the present, and are unsolicited. Use the Gargling Oil, and tell your neighbors what good it has done. We also many acture MERCHANT'S WORM TABLETS."

We deal fair and liberal with all, and defy contradiction. Write for an Al-Manufactured at Lockport. N. Y., by

MERCHANT'S GARGLING OIL GOMPANY

JOHN HOBGE, Secretary. 11-3

## HILTON'S NEW

# Patent Washing

WHAT IS CLAIMED FOR IT:

1st—It is the best ever offered to the public for the following reasons. viz: It will do its work quecker, easer, and better than any other machine, cleaning effectually and perfectly no hand rubbing being necessary and without the slightest injury to any article submitted to its operation, neither breaking nor misplacing buttons or other fastenings.

2nd—Its range or scope of action is greater, acting singly upon a lace or lineur collar, and accommedates itself to the heaviest article of bedding without change or adjustment of the machine.

3rd—It is curable, not likely to get out of order, and when so, easily repaired, being constructed in sche a manner that any of its parts can be supplied by the manufacturer without the presence of the machine, and adjusted to its place by any person, which is evident at first sight of the machine.

In witness of the above read the following: WHAT IS CLAIMED FOR IT:

In witness of the above read the following:

We, the undersigned, having used Mr. Hilton's Patent Wash ng Machine one year, can fully end rese the above claims:—Wm. Rap'ey, S. A. Eakins.

Jos Benjamin. W. W. Hull, Jas. Manson. Laaco
More. G. Sreet and others. Strathroy, Ont,
February, 1872.

Teoruary, 1812.

Town and County Rights for sale. Price of Machines, #14. All orders addressed to the undersigned will be promptly filled.

11 y ALEX. HillTON, Strathroy, Ont.



IDER! APPLE BLLY! VINEGAR!

SELLS' PATE T CIBER MILLS for Hand or Horse Power. This Machine always takes the FIRST PRIZE at every Exhibition. both in Canada and the States, where exhibited. At the late Provincial Exhibition in Hamilton, in October last it was awarded the First Prize; and at a trial tentre of the prize also, GET THE BEST; the BEST is the CHEAP is now improved, and works in the easier than the old mills. You can make two burels of ciderafter supper. The price of the odd ill is \$32: the new and improved mill, 36. H. SELLS, Manufacturer. W. WELD, Ag't, London.

# The Empire Root Cutter!

THIS ROOT QUTTER CARRIED OFF THE FIRST \*\*RIZE at the Provincial Exhibition at tamilton, 1872; also, at Ottawa and Milton, where it was shown against \$30 machines. It was tried by the Judges at these Exhibitions, and that is the ason it corried off first prizes. It is a PERFECT ELF-FEEDER, easily worked and regulated to cut any thickness required. It will cut from

ONE TO TWO BUSHELS A MINUTE

A trial is all that is necessary to secure a sale.—
Each Machine has a Metallic Plate having moname as Patentes. Sent free to any Station on the G. W. R. at on receipt of \$5.

T. FORFAR, WATERDOWN, ONE.

## W. BELL & CO., GUELPH, ONT.



PRIZE MEDAL Cabinet Organs

> AND MELODEONS Sole Proprietors and Manufacturers of

"THE ORGANETTE,

Containing Scribner's Patent Qualifying Tubes.

AWARDED THE ONLY MEDAL! Ever given to makers of Reed Instruments at Pro-vincial Exhibitions, besides Diplomas and First Prizes at other Exhibitions too numerous to specify. CAUTION!

As we have purchased the sole right of manufacturing Scribner's Patent Qualifying Tubes for the Dominion of Canada, we hereby caution all parties from purchasing them elsewhere, as they will be liable to prosecution. We have copyrighted the name of the

## "ORGANETTE,"

For our instruments containing this wonderful im-provement. Any manu acturer infringing on this copyright will be prosecuted.

Illustrated Catalogues furnished by addressing W. BELL & CO., Guelph

LOT NO. 1. N. HALF 14th CON., TOWNSHIP of Loxbon, consisting of 107 acres; 30 acres of excellent wood land, and the remainder in a good state of cultivation. We'l fenced, well watered: never-failing creek; excellent young orchard of choicest fruits of all kinds; good brick house -90, 000 bricks in it.—with slate roof Good barns, sheds and outbuildings. Distance from London, 5 miles. Soil unsurpassed in quality. Price, \$5,500. This is a are opportunity, as the proprietor is determined to leave.

Apply to-REUBEN BISBEE, Devizes P.O., or to this office.

## YEARLING DURHAM BULLS FOR SALE.

TWO FIRST-CLASS YOUNG BULLS Also some Cows and Heifers. Apply to

JOHN B TAYLOR, Springwood, London, Ont.

8-tf Gardener Wanted.

ONE who will take charge of a market garden of about fourteen acres; one who will work it on shares is preferred. References as to character and ability will be required For further particular apply to W. WELD, Esq., of Farmer's Advocate. London, Ont, or to the undersigned.

A. A. BURNHAM, jr.,

8-tf. Cobourg. Ont.

## The Dominion File Works, St. Gabriel's Locks, Montreal.

St. Gabriel's Locks, Montreal.

J. OUTRAM & CO., Proprietors.

FILES and RASPS constantly on hand or made to order. N.B.—Old Files recut. Save mone and save your old files.

GEORGE VAIR,

LANDSCAPE GARDENER.

Plans given. selecting. arranging and plantins fruit and ornamental trees. Address—

Reff TORONTO and BARRIF TORONTO and BARRIF is 180 acces; 4 acres wood; new two-storey brick is spring creek runs through the farm; soil clip and loam; spiendid wheat hand; cannot be boat it Canada; good orchard; gravel road running past the house.—Apply at this office.

August 27, 1872.

WRITE FOR THE

FARMER'S ADVOCATE.

ell this Pruner in the Townships set opposite their names:

D. McIntyre, Erg. South Dorchester.

J. McIntyre, Erg. South Dorchester.

J. McIntyre, Erg. South Dorchester.

J. Murray Esg. Be cheim.

R. Sleeth. Esq. Westminster.

McGregor Erg. Ekfrid.

P. II Green. Erg. Southwold.

J. McCallum. Erg. Donwich.

M. Moore. Erg. Varmouth.

M. Moore. Erg. Varmouth.

M. H. Bliott E. q. Caradoc.

W. P. Woodnouse, Erg. Delaware and London.

M. Stephens. Irg. Ster hen.

Gene Erg. Botherd.

M. H. Bliott E. q. Caradoc.

W. P. Woodnouse, Erg. Ster hen.

Gene Erg. Botherd.

M. McCallum. Erg. Donwich.

M. McCallum. Erg. Donwich.

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M. Meore. Erg. South Dorchester.

McKriegor Erg. Ekfrid.

P. II Green. Erg. Sterich.

M. Meore. Erg. Southwold.

J. McCallum. Erg. Donwich.

M. Meore. Erg. Southwold.

J. Murray Erg. Refrid.

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M. Meore. Erg. Donwich.

M. Meore. Erg. Verified.

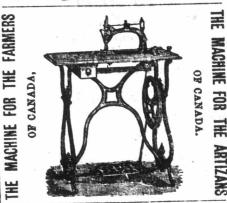
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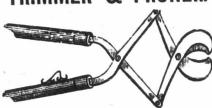
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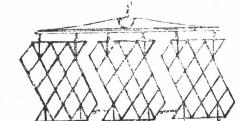
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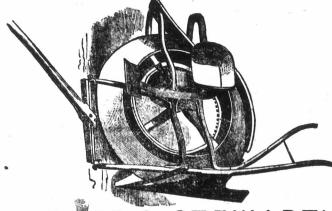
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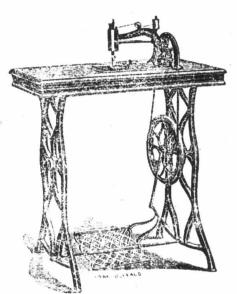
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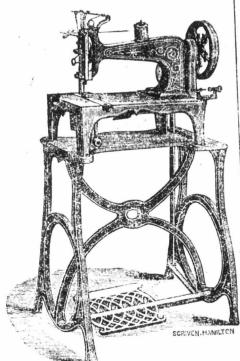


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CAPITAL FIRST JAN., 1871,

\$231,242 25.

Cash and Cash Items, \$72,289 55.

THIS COMPANY continues to grow in the public confidence. On 1st January, 1871, it had in force 34,528 POLICIES,

Having, during the year 1870, issued the immense number of 12,319 Policies.

Intending insurers will note-

1st—That this is the only Fire Mutual in Canada that has shown its ability to comply with the law of the Dominion, and deposit a portion of its surplus funds for the secu ity of its members,—\$25,000 have-

2nd—That being purely mutual, all the assets and profits belong solely to the memoers, and accumulate for their sole benefit, and are not paid away in the shape of dividends to shareholders as in the case of proprietary companies.

3rd—That nothing more hazardous than farm property and isolated dweiling houses are insured by this Company, and that ithas no Branch for the insurance of more dangerous property, nor has it any connection with any other company whatsoever. 4th-That all honest losses are settled and paid for without any unnecessary delay.

5th-The rates of this Company are as low as those of any well established Company, and lower than those of a great many.

6th—That nearly four hundred thousand dollars have been distributed by this Company in satisfac-tion of losses to the farmers of Canada during the

last ten years. 7th—That the "Agricultural" has never made a second call on their members for payments on their

Varmers patronize your own Canadian Company that has done good service amongst you. Address the Secretary, London, Ont., or apply to

JOHN ELLIOTT,

### FOUNDRY. PHŒNIX

MANUFACTURER of Stoves, Ploughs, Reaping machines, Threshing Machines, Lap-Furrow Ploughs, Cultivators, and Guage Ploughs, &c., London, Ont.

THE SUBSCRIBER IS PREPARED TO THE SUBSCRIBER IS PREFARED TO fit up Public Buildings, Churches, and Private Residences with Velvet, Tapestry, Brussels, 3-ply Kilderminster Carpe s, Floor Oil Cloths and matting at short notice and very moderate prices. R.S. MURRAY. July

# TIME AND LABOR SAVED

# THE OSCILLATING

Patented on the 18th of July, 1870, by WILLIAM MATHEWSON, OF BROOKLIN, ONT.

THE Patentee challenges any other Washing Machine now in use to compete against his for any sum they may name. The Machine has been thoroughly tested and used by nearly all the principal hotels and leading farmers in the County, who pronounce it the best now in use. It will wash from a muslin pocket-handkerchief to a bed-quilt. A trial will satisfy any person as to its merits.

County Rights and Machines for sale

County Rights and Machines for sale Apply to WM. MATHEWSON,

Brooklin, Ont.
This Machine can be seen and procured at the Agricultural Emporium Wareroom, London. Brooklin, March, 1871.

# DANA'S PATENT SHEEP MARKS.

THESE MARKS ARE THE CHEAPEST, the THESE MARKS ARE THE CHEAPEST, the most lasting, the least troublesome, and most complete ever invented. They are used and recommended by many of the best Breeders in the United States and Canada such as G. B. Loring, Salem, Mass., President New England Wool Growers' Society; John S. Ross. Hennepin, Ill.; Professor M. Miles, of the State Agricultural College, Lansing, Mich.; Hon. George Brewn, Toronto, Ont.; John Snell. Edmonton, Ont. On each Mark is stamped the owner's name and the sheep's number. They will be sent free, by mail or express, for Only Four Cents Each, and will last for twenty years.

Cash must accompany all orders. ARCHIBALD YOUNG. Jr., Sarnia, Ont.

Orders addressed to the "Farmers' Advocate" Office for any quantity will be filled at the abovementioned price, as quickly as the Marks can be made and sent.

3-tf

W. WELD.

## DRAIN TILE MACHINES. BRICK MACHINES,

COMBINED TILE AND BRICK MACHINES, AND HAND TILE MACHINES,

D. DARVILL, Apply to

London, Ont. London, April 26, 1872.



# MARKHAM BELL FOUNDRY.

١	No. 1	Bell.	15 i	nches	diamete	r-yoke	æ	crank
١	MT 0	60	16					*** 12
١	No 2	44	101	44	66		66	.,. 2
١	No. 3	46	102	44	4.6	-Yoke	&	Wheel 30
١	No. 4	14	00	66	4.6		"	••• 50
	No. 5	44	20	4 .	66			70
	No. 6	6.	36	66	44		"	Wheel. 30 12 30 50 70
	10.		00		-			

There are about 1800 of the above bells now in use and giving the best of satisfaction, costing only one third the amount of ordinary bells, and are all warranted one year. Encourage home manufacture and purchase a warranted article. Farmers! throw aside those dinner horns, which cause the ladies to get swelled necks by blowing. JONES & CO., Markham P.O., Ont. W. Welld, Agent, Longery, 1997.

# TREES

FOR FALL PLANTING

# TORONTO NURSERIES.

GEO. LESLIE & SONS HAVE IN STOCK A LARGE AND SPLENDID assortment of

# FRUIT AND ORNAMENTAL TREES

SUITABLE TO ALL PARTS OF OUR CLIMATE. Send 3 cent stamp for our priced Descriptive atalogue. GEO. LESLIE & SONS, 2 in-9 Catalogue. 2 in-9

## BREEDERS DIRECTORY.

J. S SMITH. McGillivray. Breeder of Leicester Sheep and Durham Cattle, Ailsa Craig.

JOHN EEDY. Granton P. O., London Township, Breeder of Leicester Sheep.

G. WELDRICK, Thornhill, Breeder of Cotswold Sheep.

GEO. JARDINE Hamilton, Importer and Breeder of Ayrshire Cattle and Leicester Sheep. 11 J. BILLINGER, Richmond Hill Ont. dealer in Canadian Bred Stallions Best prices g ven for good Horses, and some first-class Horses for sale.

H. E. IRVING, Hamilton. Breeder of Galloway Cattle. Southdown and Leicester Sheep and Berk-shire Pigs

N. BETHELL, Thorold, Ont., Breeder of Short Horns, Berkshire and Yorkshire Pigs, Southdown and Leicester Sheep.

DAWS & CO. Lachine, P.Q. Importers and Breeders of Ayrshire Cattle. 8-ly J. PINKHAM, Westminster, Breeder of Devon

R. D. FOLEY, Bowmanville Importer & Breeder of Devon Cattle, Berkshire Pigs and Merino Sheep WALTER RAIKES, Barrie, P. O., Breeder of Short Horns and Beckshire Pigs. 72-1-y

JOHN CRAWFORD, Mahem P.O, Breeder of Heavy Draught Horses and Cotswold Sheep. 1-y JOSEPH GARDNER, Brittania P. O., Breeder

RICHARD RUNELSON, Galt. Breeder of Cotswold, Leicester, and Southdown Sheep.

H. M. COUHRAN, Compton, P. Q., Importer and Breeder of Short Horn Cattle, Cotswold Sheep and Berkshire Pigs.

W. LANG. St. Mary's, Breeder of Short Horns and Berkshire Pigs. A. PARK, Ingersoll, breeder of Ayrshire cattle. JOHN CURRIE, Verschoyle, breeder of Berkshire Pigs.

J. FEATHERSTONE, Credit breeder of Essex, Suffolk, and Yorkshire Pigs, and Cotswold Sheep. JOHN JACKSON. Grahamsville, importer and breeder of English Cart Horses, Berkshire swine, and Leicester sheep. 12

J. MAIN, Boyne, importer and breeder of Cotswold Sheep and Suffolk Swine.

VEORGE MILLER, Importer and Breeder of Short Horn Cattle, Cotswold & Leicester Sheep, and Berkshire Swine, Markham P. 0. 12

JAMES LAWRIE, Malvern P. O., importer and bleeder of Ayrshire Cattle, Cludesdale Horses, Berkshire Pigs, and Leicester Sheep. 11-1y

GEORGE G. MANN, Bowmanville, Importer and breeder of Thorough-bred Devon Cattle 11-1y. JOHN SCOTT, Coldtsream, Breeder of Leicester sheep and short Horn Cattle. 11-ly THOS IRVINE, Logans Farm, Montreal, Breeder of Ayrshire Cattle, Clydesdale Horses, Yore shire and Berkshire Figs. and Leicester Sheep.

BRODIE, SON & CONVERSE, Bellville, Breeders of Yorkshire Pigs and Ayrshire Cattle. 11-ly

W. HOOD, Guelph, Breeder of Galloway Cattle.

H. H. SPENCER, Breader and Importer of Devon Cattle, Clydesdale Horses. Southdown and Hampshiredown Sheep, and Berkshire Pigs. Brocklin P. O., near Whitby Ontario. 11-ly J. MILLER, Thistle-"ha." Brougham P. O., Breeder of Short-Horns, Cotswold Sheep, improved Berkshire Pigs and Clydesdale Horses. 11-ly.

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

G. MORTON, Morton P. O., Breeder of Ayrshire Cattle. JOHN SNELL & SONS, Edmonton. Breeders of Short-Horn Cattle. Leicester and Cotswold Sheep and improved Berkshire Pigs. Winner of the Prince of Wales prize for the best Bull and five of his Calves at Provincial Exhibition, Kingston, 11-ff.

F. W. STONE, Morton Lodge Guelph, Importer and Breeder of Snort-Horn and Hereford Cattle, Cotswold and Southdown Sheep, and Berkshire

JAMES COWAN CLOCKMOHR, Galt P. O. Breeder of Short-Horns, Leicester Sheep and Essex Pigs. 71-10

JNO. KENNEDY, Mont Juan, Hyde Park P. O. Breeder of Short Horn Cattle, Leicester Sheep and Berkshire Pigs. GEO. ROACH Hamilton, Importer and Breeder of Berkshire, Suffolk and Essex Swine. 11-71

J. R. HUNTER, Alma, Breeder of Short Horn Cattle.

D. S. ROBERTSON, Wanstead, breeder of pure bred Berkshive pigs EDW. JEFFS, Bond Head, Breeder of Short Horns, Leicester Sheep, Berkshire and Chester 72-3-y Horns, Leice White Pigs.

THOS. GUY, Sydenham Farm. Oshawa, Breeder of Ayrshire and Devon Cattle. 72-3-y M. & A. A. MOARTHUE, Lobo, Breeders of Lei

Juners-Newburg; and Emer

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# SUPPLEMENT TO

# FARMERS

FOR THE ELEVENTH NUMBER OF THE SEVENTH VOLUME.

List of Prizes and Successful Competitors' Names and Amount of Prize, awarded at the

# PROVINCIAL EXHIBITION,

Held in Hamilton, Ont., D.C., in the year 1872.

Best herd of Durham cattle, consisting of one bull and five females of any age, bred and owned by the exhibitor, John Snell & Sons... PRIZE LIST. Highly Commendad. —Herd of Durham cattle, Geo-Miller, Markham. CLASS 3. -AGRICULTURAL HORSES. Juness-Messrs J Gould, St. Mary's; J D Ham, NewBurg; Jacob Pollard, Orono; R D Byers, L'Orignal; and Emerson Taylor, Credit. Best vearling filly. Thomas Corker, Glanford.

Best vearling filly. Thomas Corker, Glanford.

Best brood mare and foal, or evidence that a foal has been raised, J & R Hunter, Pikington and do, Neal Taylor, Newcastle.

And do, Sland Taylor, Newcastle.

And do, Sland Taylor, Newcastle.

To all Stutt, Grash and the farm team (geldings or mares in harness) David Choate, Ingersoil.

To and do, I share the farm team (geldings or mares in harness) David Choate, Ingersoil.

To and do, J and the farm team (geldings or mares in harness) David Choate, Ingersoil.

To and do, J and the farm team (geldings or mares in harness) David Choate, Ingersoil.

To and do, J and the farm team (geldings or mares in harness) David Choate, Ingersoil.

To and do, J and the stutt of any age or ages, F W Stone.

To and do, J as and the farm team (geldings or mares in harness) David Choate, Ingersoil.

To and do, I share the state of the grady o Toronto Gore.

Ind do, Alex Beith, Clarke...

Ind do, D. McConnachie...

CLASS 5.—DURHAMS. LIDGES—Messrs. Edward Jones, Stamford; Chas Mitchell, Credit; R G McDonald, Cornwall; J W Johnson, Jas Biggins, Clinton; Wm Wright, Sandwich; James Vine, Louth, and John Tennant, Paris. Best bull, 4 years old and upwards, John Miller, Best bull, 4 years old and upwards, John Miller,
Brougham.
2nd do, Humphrey Snell.
3rd do, Simon Beattie, Pickering.
Best 3 years old bull, J & R Hunter, Pilkington
and do, Robert Collacutt, Darlington.
3rd do, George Miller, Markham
Best 2 years old bull, John M Bell, Pickering.
3rd do, John Snell & Sons, Edmonton.
3rd do, J S and Geo Thomson, Whithy
Best 1 year old bull, John Snell & Sons.
2rd do, John Miller.

Best buil of any age, J. Bell, Fleching
Best cow, John Snell & Sons
2nd do, Goorge Miller.
3rd do, J& R. Hunter.
Best 3 years old cow, John Snell & Sons.
2nd do, George Miller.
3rd do, J and Geo Timmson
Best 2 years old heifer, John Miller.
2nd do, John Snell & Sons.
3rd do, F W Stone, Guelph.
Best 1 year old heifer, John Snell & Sons.
2nd do, Duncan McDougall, E Flamboro.
3rd do, Duncan McDougall, E Flamboro.
3rd do, John M Bell.
Best heifer calf, under one year, F W Stone.
2nd do, John Russell, Pickering
Beet herd of Durham cattle, consisting of one
bull and five females of any age or ages, John
3nell & S. 18.

CTORY.

ler of Leicester raig. Lond n Town-

der of Cotswold

Importer and ester Sheep. 11

prices g ven for Horses for sale.

reeder of Short Pigs, Southdown

Importers and

reeder of Devon

P. (), Breeder of old Sheep. 1-y P. O., Breeder Breeder of Cots-

Q.. Importer and wold Sheep and

of Short Horns

f Ayrshire cattle.

reeder of Berk-

breeder of Essex, Cotswold Sheep. lle, importer and Berkshire swine, 12 d breeder of Cots-

and breeder of Leicester Sheep, P. O. 12 P. O., importer and lydesdale Horses, neep 11-ly anville, Importer Breeder of Leices-

Farm, Montreal, Dydesdale Horses, nd Leicester Sheep.

of Galloway Cattle.

and Importer of les. Southdown and Berkshire Pigs.

Brougham P. O.

Horses. 11-1y.

eeder of Leicester

Breeder of Ayrshire

Edmonton, Breeders

ster and Cotswold ire Pigs. Winner of the best Bull and five Exhibition, Kingston,

ge Guelph, Importer and Hereford Cattle, neep, and Berkshire

MOHR, Galt P. O. Leicester Sheep and 71-10

an, Hyde Park P. O., Leicester Sheep and

Importer and Breeder sex Swine. 11-71

reeger of Short Horn stead, breeder of pure

ead. Breeder of Short erkshire and Chester 72-3-y

arm. Oshawa, Breeder Lobo, Breeders of Lei,

CLASS 6. -- HEREFORDS.  ${\tt Jupy ns-Messrs}.$  Wm H Sotham, Wm Lang, and  ${\tt Joseph}$  Nightingale. Best 3-year-old cow, F W Stone
2nd do do
3rd do do
Best 2-year-old helfer, do
2nd do do
Brd do do
Best 1-year-old helfer, do
Best 1-year-old helfer, do
Best 1-year-old helfer, do
Brd do do
Brd do do
Brd do Hospital year | F W Stone 3rd do, G G Mann
Best herd of Devon cattle, consisting of one bull
and five females, of any age or ages, John
Pincombe, London Highly Commender.—Herd of Devon cattle each, Geo G Manu, Geo Rudd, and Wm Atchison. JUDGES.—Messrs John Foot, Port Hope; John Forth, Addison; Geo Buttery, Strathroy; Wm Millar, Kincardine; Wm Binion, Matilda; Georgo Millar and Alex Thompson. CLASS S-AYESHIRES. 

CLASS 10-GRADE CATTLE. JUDGES.—Messrs A Carmichael, Nairn; Wm Clarke, Kindram; J S Armstrong, Guelph; and Wm Davis, Frankville. and Best grade cow, Peter Rennie, West Garafraxa 20 2nd do, John Russell, Pickering. 20 3rd do, J & W Watt, Nichol 15 Best 3 years old cow, J and W Watt 25 3rd do, John Fethergill. 15 Best 2 years old heifer, J and R Hunter, Pillington. 20 2nd do, J and W Watt 15 3rd do, J and W Watt 15 3rd do, J and R Hunter. 10 2nd do, John Miller. 10 3rd do, do 8 Best heifer calf under 1 year, J and W Watt 12 2nd do, John Miller. 8 3rd do, Peter Rennie. 6 6 3rd Sarafa AND WORKING CATTLE ANY ERRED. CLASS 11 -FAT AND WORKING CATTLE, ANY ERRED. JUDGES.—Messrs Henry Wade, Port Hope, C Gannon and Richard Tooley, London. Best ram, two shears and over, a shear & Sons,
Edmonton...
2nd do, F W Stone, Guelphs...
3rd do, Robert Collacutt, Darlington...
Best shearling ram, John Miller, Brougham...
2nd do, F W Stone...
3rd do, John Snell & Sons, Edmonton...
Best ram lamb, John Miller Sons. 2nd do, John Snell & Sons. 4th do do
Best pen of Cotswolds, consisting of 1 ram, 2
ewes, and 2 ewe lambs, John Snell & Sons... CLASS 14. - LEICESTERS. JUDORS - Jas Craig, J.P. Keppen, L. Parkinson, John Lee, and J. W. Overholt. 3rd do, Adam Oliver
4th do, Christopher Walker, London Tp...
Best 2 ewes, 2 shears and over, Jas Russell,
Markham
...
Markham ...
Markham ... best 2 ewes, 2 shears and over, 322 husself,

Markham...

2nd do, W H Wallbridge, Thurlow...

3rd do, Hugh Love, sen.

12 Best 2 shearling ewes, Adam Oliver...

8 2nd do Richard Gibson...

6 3rd do...

do...

gardo, Jas Russell, Markham.  Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell, Markham.  Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell  Srd do, John Rowell, London.  CLASS 21—SUPPOLES.  JUDONS—John Richardson, St Catharine Rogers, Nowmarket; Joseph Falkild, Strati Martin, Mount Forest; and John Morley, Go  Best boar, one year and over, Jas Main, Tri gar.  2nd do, John Cumming, Hullett.  3rd do, Geo Roach, Hamilton.  Best boar under one year, Geo Roach.  2nd do, E Walker, Onondaga.  3rd do, E Edmonson, Brantford.  Best boreding sow, one year and over, Will Wright, Sandwich  2nd do, James Main  3rd do, Geo Roach.  3rd do, Geo Roach.  3rd do, Geo Roach.  JUDOES.—Messrs J H Parsons, C A Ton Robinson and Jacob Young.  Best boar, one year old and over, Jos Feat stone, Toronto.  2nd do, Thos McCrae, Guelph.  Best boar under 1 year, Jas Anderson, Guel 2nd do, Thos McCrae, Guelph.  Best boar under 1 year, Jas Anderson, Guel 2nd do, Geo Roach.  2nd do, Geo Roach.  3rd do, Geo Roach.	er. 18 8 4 8 10 17 14 10 11 17 14 10 14 10 14 10 14 11 17 14 11 17 14 11 17 14 11 7 14 10 11 7 14 10 11 7 14 10 11 7 14 10 11 10 11 11 10 11
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gardo, Jas Russell, Markham.  Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell, Markham.  Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell  CLASS 21—SUPPOLES.  JUDOSS—John Richardson, St Catharine Rogers, Nowmarket; Joseph Falkild, Strati Martin, Mount Forest; and John Morley, Go  Best boar, one year and over, Jas Main, Tri gar.  2nd do, John Cumming, Hullett  3rd do, Geo Roach, Hamilton  3rd do, E Walker, Onondaga.  3rd do, E Walker, Onondaga.  3rd do, E Edmonson, Brantford.  Best bow one year and over, Will Wright, Sandwich 2nd do, James Main 3rd do, Archibald Frank, Caledon.  Best sow one year old, Jas Main.  2nd do, Geo Roach.  3rd do, Geo Roach.  3rd do, Geo Roach.  3rd do, Geo Roach.  3rd do, Geo Roach.  JUDOES.—Messrs J H Parsons, C A Ton Robinson and Jacob Young.	er
grafip 2nd do, John Miller, Brougham. 2nd do, Jas Russell, Markham. Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell. 3nd do, John Rowell, London.  **CLASS 21—SUPPOLES.**  **Judows—John Richardson, St Catharine Rogers, Nowmarket; Joseph Falkild, Stratt Martin, Mount Forest; and John Morley, Go Best boar, one year and over, Jas Main, Tre graf. 2nd do, John Cumming, Hullett. 3nd do, Geo Roach, Hamilton. Best boar under one year, Geo Roach. 2nd do, E Walker, Onondaga. 3rd do, C Edmonson, Brantford. Best breeding sow, one year and over, Will Wright, Sandwich 2nd do, James Main 3rd do, Archibald Frank, Caledon. Best sow one year old, Jas Main 2nd do, Geo Roach. 3rd do, Geo Roach.	er. 18 4 4 4 57 14 10 14 7 17 14 17 14 17 14 17
gardo, John Miller, Brougham.  3rd do, Jas Russell, Markham. Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell 3rd do, John Rowell, London.  **CLASS 21—SUPPOLES.**  Judows—John Richardson, St Catharine Rogers, Nowmarket; Joseph Falkild, Strati Martin, Mount Forest; and John Morley, Go Best boar, one year and over, Jas Main, Tragar.  2nd do, John Cumming, Hullett.  3rd do, Geo Roach, Hamilton. Best boar under one year, Geo Roach.  2nd do, E Walker, Onondaga.  3rd do, C Edmonson, Brantford.  Boet breeding sow, one year and over, Will Wright, Sandwich  2nd do, James Main  3rd do, James Main  3rd do, James Main	er. 18 8 4 10 17 14 10 11 17 17 17
gradion and the comments of th	es; John ford; Jno dderich.  afal
Gueiph 2nd do, John Miller, Brougham. 3rd do, Jas Russell, Markham. Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell. 3rd do, John Rowell, London. CLASS 21—SUFFOLES. Judous-John Richardson, St Catharine Rogers, Nowmarket; Joseph Falkild, Strati Martin, Mount Forest; and John Morley, Go Best boar, one year and over, Jas Main, Tri gar. 2nd do, John Cumming, Hullett.	er. 18 8 es; John ford; Jno derich. afal \$17
gradiph 2nd do, John Miller, Brougham. 3rd do, Jas Russell, Markham. Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell. 3rd do, John Rowell, London. CLASS 21—SUPPOLES. JUDGES — John Richardson, St Catharine Rogers, Newmarket; Joseph Falkild, Stratt Martin, Mount Forest; and John Morley, Go Best boar, one year and over, Jas Main, Tri	er. 18 8 es; John ford; Jne derich.
2nd do, John Miller, Brougham. 3rd do, Jas Russell, Markham. Best 2 fat ewes, under two shears, John Mille 2nd do, Jas Russell. 3rd do, John Rowell, London	er. 13
2nd do, John Miller, Brougham	er Lu
Guelph	4
Best 2 fat ewes, two snears and over, F w St	19
Best 2 fat wethers, under two shears, E Maccald, Guelph Tp	18
Hood, Guelph	\$12 4
CLASS 19— FAT SHEEP, JUDGES.—Same as in class 11.	
2nd do, H H Spencer.  Best 2 ewe lambs, J W Russell 2nd do, H H Spencer.	10
2nd do Best 2 ewes, 2 shears and over, H H Spencer. 2nd do, J W Russell, Trafalgar. Best 2 shearling ewes, J W Russell	15
Whitby Best shearling ram, H H Spencer 2nd do, Wm Donaldson, E Zorra Best ram lamb, H H Spencer	8
James Mitcheil.  Best ram, 2 shears and over, H H Spend	er,
CLASS 17.—SHROPSHIRB, HAMPSHIRB, AND OXY DOWNS.— JUDGES-Messes N H Pawling, W McArt	
3rd do do 2nd best 2 ewe lambs, George Weldrick, Tho hill	rn-
Best ram, Richard Gibson, London Tp 2nd do, John Jackson, Chinguacousy Best 2 ewes, Richard Gibson	17
ewe lambs, Adam Oliver	20
2nd do, W Whitelaw. 3rd do, Adam Oliver. 4th de, W Whitelaw. Best pen of Leicosters—1 ram, 2 cwes, and	1 3
Best 2 ewe lambs, Adam Oliver	17

Bucks, 1984 pair Aylandry, Saddo, John Bogue... Enddo, John Bogue... Buddo, F Sturdy, Gueiph. Ducks, best pair any other kind, W H Van Ingen,

and do, F Sturdy.
Heat pair of fowls of 1872, of any other kind, H

EXTRA .-- Pair Angola Rabbits, 1st prize, H M Tho-

HIGHLY COMMENTED.—Pair of game fewis, S. Butter-wield, Edmonton; trie dark Erahmas, H. M. Thon as; do, John Forsyth; do, F. Sturdy, trie golden spangled Mamburga, do; do, John Munn.

CLASS 49-MACHINES, SEWING AND ENITTING.

Junges, ... John McDougall, Waterloo; John Junkin, St Catharines; Daniel Cameron, Gait.

Knitting machine, manufacturing, H Bailey, To

Knitting machine, manufacturing, H Bailey, Foresto
Knitting machine, family, H Bailey
2nd do, Appleton Manufacturing Co, Hamilton
Sewing machine, manufacturing, Wilson, Lockman and Co, Hamilton
2nd do, C W Williams, Hochelaga
Sewing machine, family, C W Williams; Gardner's Sewing Machine Co, Guelph—equal
2nd do, Wilson, Lockman and Co
Sewing machine, single thread, Osborne Sewing
Machine Co, Cuelph

3rd do, do Best heifer calf under 1 year, Thos McCrae

SHEEP-MEDIUM WOOLLED.

CLASS 10-SOUTHDOWNS.

Best ram, 2 shears and over, H H Spencer,

Whittiy 2nd de, i' W Stone, Guelph 3rd de, do Best shearling ram, G C Douglass, North Dum-

JUDGES. -- Mesers H J Brown, Niagara; Geo Jones, West Flamboro; W Scott, Dumblane, and Matthew

3rd do, Wm Hood

Walton, Peterborough.

Plamboro'
2nd do, B Bell and Son
3rd do, Thain, Elliott and Co
Best horse-hoe or single-horse cultivator, iros.
George Borer
2nd do, Isaac Wescott
A Chapter Ross.

2nd do, Isaac Wescott
3rd do, George Ross
Best horse-hoe, or single-horse cultivator, wood,
W and J Jardine, Galt
2nd do, Thain, Elliott and Co
3rd do, John Watson, Ayr
Best pair of iron harrows, John Dolder, Whithj
2nd do, Kirkland and Robb, Seneca

2nd do, Isaac Westcott

Best pair or wood harrows, W and J Jardins
2nd do, A Copp, Hamilton

3rd do, James Reid, Brantferd

Bort woode 2nd do, Joh

Best grain 2nd do, L I

3rd do, Day Bost seed d turnips, 2nd do, B

3rd do, The Best ditch

Best stum

EXTRAS.

mett and 8

CLASS 23

Best mac Best asso coner. 2nd do, V Best seed Walker 2nd do, J 3rd do, Best mac

man, 8 Best half Duart

Best grad Best law

hiton 2nd do, phia Best hal 2nd do, Best str Woole

Best Francisco

3rd do.

Hig

Com

The bus win East put and pri of beed district 2nd 2nd 3rd

Best wooden roller, B Bell and Son 2nd do, John Watson Best grain drill, John Watson, diploma and 10 Best two bushels barley, two rowed, Thos Gib-Best two bushels barley, two rowed, Thos Gibson, Markham
2nd do, John Pratt, Cobourg
Best two bushels barley, 6 rowed, Reuben
Sparks, E Flamboro'
2nd do, Ge Barnes, Barton Best grain drill, John Watson, diploma and 2nd do, L D Sawyer and Co, Hamilton 2nd do, L D Sawyer and Co, Hamilton 2nd do, David Maxwell, Paris
Best seed drill, for sowing two or more drills of turnips, mangles, or other seeds, John Watson 2nd do, B Bell and Son 2nd do, Thain, Elliott and Co Best ditching plough or ditching machine for digging drains, L D Sawyer and Co 2nd do, McPherson, Glasgow and Co, Fingal Best stump extractor, Daniel Comfort, Hamilton 3rd do, Ira Rymal, Barton
4th do, Jos McNair
Best two bushels winter rye, J D Lafferty, W 2nd do, John Evans, Watertown ville
2nd do, Robt Rasperry, Hamilton
3rd do, W A Forfar, Scarboro
4th do, Jos Main, Trafalgar
B.st two bushels of oats, black, John Pratt, Co-EXTRAS.—First prizes, A Copp, hand seed drill, cultivator and strawberry cutter combined; John Benmett and Son, Chatham, road scraper; Thomas Clarke Hampton, seed drill for sowing on single drills; Kirk-land and Robb, Seneca, set of chain harrows; John Westbrick, Hope, cultivator and grain sower combourg 2nd do, J Rowatt, Dorchester ard do, W M Smith, Burford
4th do, Walter Riddle, Baltimore
Best two bushels small field peas, Wm Forfar, CLASS 28-AGRICULTURAL TOOLS AND IMPLEMENTS, CHIEFLY FOR HAND USE. Agrincourt - - 2nd do. Simpson Rennie, Scarboro' Judges.—Mesers John Stitt, Prescott; K Wishart, West Flamboro; Walter Riddell, Baltimore; F A Nelles, Work; and Geo Cheyene, Windsor. 3rd d., J. R. watt 4th do, A. Boover, sr., York Tp. Best two bushels marrowfat peas, Jas Main, Trabest machine for making drain tiles, Wm Gibbs, falgar 2nd do, John Callis, Hamilton Tp E Flamboro', diploma and
Bast assortment of drain tiles, Close and Fal-3rd do, Andrew Black, Baltimore Best two bushels of any other kind of field Peas, J Rowatt coner, Woodstock Peas, J Rowatt
2nd do, Jas G Biggar, Trafalgar
3rd do, E Badgen, E Flamboro'
4th do, Jas R Foster, Flamboro'
Best bushel of small white field beans, Walter 2nd do; Wm Gibbs Best seed drill or harrow, for turnips, etc, Wm 2ad do, J Lawson and Sons, Palermo Studo, do Best machine for sowing grass seeds, David Bate-2nd do, John Richardson, Louth man, Scugog Boot half dozen scythe snaiths, Andrew Talt, Duart 3rd d., Lewis Coridon, Salford 4th do, Moses Freeman, do Bost bushel of large white field beans, Lewis Lewis Coridon Salford . Best grain cradle, Peter Dick, Orilla 2rd do, Andrew Tait Best lawn machine, Juo A Bruce and Co, Ham-Cordon
2nd do, John Richardson
Best two bushels of Indian corn in the ear,
white, F Morrison, Hamilton
2nd do, Hon H G, Niagara Tp
3rd do, Wm Upsdell, Grinnsby
4th do, G J Miller, Virgil
Best two do, yellow, W G Pettit, Wellington
Scurre alton 2nd do, Graham, Emlan and Passmore, Philadelphia
Best half-dozen hay rakes, Andrew Teit
2nd do, W C Vansickle, Jerseyville
Best straw or barley fork, wood, A Terrill, Wooler Fanning mill, Henry Switzer, Stephen, Square 2nd do, G Morrison, Hamilton 3rd do, Wm Lottridge, Barky
4th do, Alex McD ugail, E Flamboro
Best bale of hops, not less than 112 lbs, N diplonia and Best straw cutter, L. D. Sawyer and Co, Hamil-Best bale of hops, not less than 112 lbs, Sprague, Demorestville 2nd do, Coolidge & Dunning, Demorestville 3rd do, John Wheaton, London and do,
3rd do, 8 Fleury, Aurora
Best machine for cutting roots for stock, Thos
Forfar, East Flamboro
2nd do, John Watson, Ayr
2rd do, David Maxwell; Paris
Best cheese press, John Armor, Hamilton
Best churn, Coridor Lewis, Salford SMALL PIELD SEEDS, PLAX, HEMP, ETC. JUDGES.—Wm McKercher, Bethany; A R Kidd, Warsaw; C Sharp, Guelph; Abraham Martin, New-Best bushel of timothy seed, J C Teneyck, 3rd do, Porter, Bianshard and Sons, Concord, Best bushel of timothy seed, J C Tedeyck,
Grimsby
2nd 40, E Walker, Ononda
3rd do, J hn Rasyberry, Hamilton
4th do, Coridan Lewis, Salfoot
Best bushel of clever seed, W M Smith, Burford
2nd do, John Smith, Burford
Best half-bushel of Alsike clover seed, H M
Thomas Bronklyn Best bee-hive, A C Attwood, Vanneck
2nd do, Philip Nicolle, Lindsay
3rd do, George Ott, Arkona
Best half dozen axe handles, Coridon Lewis
Best six chopping axes, Cosgriff and Hourigan
Dindas Best half-bushei of Alsike clove Thomas, Brooklyn 2nd do, J. hn Richardson, Louth 8rd do, J. hn Smith, Burford Dundas

Best set horse shoes, Geo Ayres, Whitby

2nd do, Graham Williamson, Seaforth

3rd do, John Leask, Caledonia
Best ox-yoke and bow, Henry Reed, Glanford
Best farm gate, Joseph E Story, Newtonbrook

2nd do, R H Hudgin, Fairfield Brd do, John Smith, Burrord
Best bushel of flaxseed, Levi Wilson, Trafalgar
2nd do, David Alt n, Nelson
3rd do, John Richardson, Louth Srd do, John Richardson, Louth
Best Swedish turnip seed, from transplanted
bulbs, not less than 12 lbs, Alfred Crumb,
Darlington
2nd do, John Crumb, Darlington
3rd do, it Foley & Son,
Best 12 lbs white Belgian field carrot seed, H. & R.
Beith. Darlington and do, R H Hadgin, Farmed 3rd do, Moses Bachter, Blain Best specimen farm fence, wood, Win Mow, York
Best specimen wire fencing, not less than two rods, erected on the ground, Moses Bechter HIGHLY COMMENDED.—Churning machine for dash churn, J C Todd, Toronto; bee smoking honey extractor, D Losee, Cobourg; honey extractor, A C Astwood, Vanneck. Beith, Darlington
2nd do, ". Morrison, Hamilton.
3rd do, John Raspberry, Hamilton.
Best 12 lbs. of long red mangold wurzel seed, John Best 12 lbs. of long red mangold wurzel seed, John
Pratt, Cobourg
2nd do, John Raspberry
Best 12 lbs. of yellow globe mangold wurzel, Walter
Riddell, Baltimore
Best bushel of tares, Wm. Thompson, Whitby
2nd do, W. Riddell
3rd do, John Raspberry
Best bushel of buckwheat, Jas. Carey, West
Frankoro COMMENDED.—Cheese hoop, John Amor, jr, Hamilton; cheese hoop (wood), do; bee feeder, D Losee; belebore and sulphur duster, F S Vanwagener, Stoney Greek; labor-saving invention, operating the old fashbened churn and dash, Jaspor Bates, Thornbury; washing machine, G I Baker, Oakville; best marked fastan queen bees, A C Attwood. AGRICULTURAL PRODUCTIONS. CLASS 29 .- FIELD GRAINS, HOPS, ETC. Junoss — Mesars David Thompson, M. P. Cayuga; John Mitchell, Mona Mills, Joab Wright, Algonquin; John Rannie, Allanburgh; J. J. Watson, Adolphus-town; Robert Currie and James Taylor. town; Robert Currie and James 12/107.

The Canada Company's prize for the best 25 bushels Fall Wheat, the produce of the Province of Ontario, being the growth of 1872. Each sample must be of one distinct variety, pure and unmixed, of the best quality for seed, and not to be tested merely by weight. The prize to be awarded to the actual grower only of the wheat, which is to be given up to and become the property of the Association, for Best 112 lbs. flax, scutched, J. B. Rutherford, Mill-Extra entries, half bushel Lucerne seed, N. Bethel. Junges—David Nesbitt, Mandarian; A. G. Hill, Welland; James Thorndyke, Osawood; Hugh Mc-Diarmid, Avenmore; Jas. Jackson, Mono Mils. FIELD ROOTS. become the property of the Association, for distribution in the several Agricultural Dis-tricts for seed, Koolfofson, Barton 2nd do, by the Association, H J Brown, Niag-Best bushel of early Gooderich potatoes, E. Walker, Onondago.
2nd do, D Langton, & Flamboro.
3rd do, Richard Caret,
Best bushel Cup potatoes, Jas. Porter, Beverly.
2nd do, Alex. Robertsen, W. Flamboro.
Best\_bushel Garnet Chills, D. McDougal, East ara Towiship and to the Association, Jno Robb, Ancaster Two bushels of white winter wheat, Stephen Blain, Ancaster 2nd do, John Smith, Brant 3rd do, Moss Freeman, Wentworth 4th do, R Pack, Neison Por the best half bushel new variety of hybridized fall wheat, exhibited by the sprignal producer, who must notify the Association of his intention to exhibit before the wheat is harvested, in order that it may be examined in the field. A portion of the wheat must be exhibited in the head, with the straw attached. A written statement of the origin and parentage of the wheat must be prize, Chas Arnold, Paris Best two bushels of Fyfe spring wheat, Lineman McEvers, Hamilton 2nd do, ames Little, Nelson 3rd do, Thos Gray, Oshawa Rest two bushels spring wheat any other variety, D McDougall, E Flambero 2nd do, John Smith, Burford ind do, John Smith Burford ara Township 3rd do, by the Association, Jno Robb, Ancaster Two bushels of white winter wheat, Stephen Flamboro
2nd do, E. Blagden, E. Flamboro
3rd do, Thos. Thompson, W. Flamboro
Best bushel Fluke potatoes, D. McDougal
2nd do, D. Langton
3rd do, A. McDougal
Best bushel Farly Rose potatoes, E. Blagden 2nd do, A. McDougal.
3rd do, R. Carey
Best bushel Peachblows, James Porte,
2nd do, Thos. Thompson.
3rd do, E. Blagden.
Bost busie B. C. eyes or Carters, D. Lamont, Hamilton
2nd do, Harry Webb, Yorkville
3rd do, Arch d Thompson
Best busnel Harrison potatoes, Archibald

Best collection of field potatoes, half peck each sort, named, James Carey.
2nd do, Richard Carey.
3rd do, H. Webb CLASS 31-RO TS. HOED, FIELD CROPS, &C. Best eight roots, Marshali's improved Swede Turnips, D. McDougal, East Flamboro . \$3
2nd do, John Weir, Jr., W. Flamboro . 2
3rd do, Wm. Burgess, Mimico . 1
Best eight roots green-top Swede turnips, James Liddle, Ancaster. Best eight roots green-top Swede turnips, James
Liddle, Ancaster.
2nd do, Thos. Stock, Waterdown
Best eight roots Skirving's Swede turnips, Thomas
Thompson, W. Fiamboro
2nd do, Jas. Porter, Beverley
Srd do, Wm. Burgess
Best eight roots white globe turnips, Rich. Carey,
E. Fiamboro
2nd do, Waiter Riddle, Baltimore
Best eight graystone turnips, D. McDougal, East
Fiamboro
2nd do, Waiter Riddle
Srd do, Jacob Baker, E. Fiamboro
Best 12 roots red carrots, Jacob Baker Best 12 roots red carrots, Jacob Baker.... Srd do, Jas. R. Foster, E. Flamboro.
Best 12 roots white or Belgian carrots, W. Walker,
Westminster
2nd do, Jas. Carey.
Srd do, Jasob Baker
Best eight roots mangold wurzel (long red) John Pratt, Cobourg
2nd do, Wm. Burgess
3rd do, Hon. Geo. Brown 3rd do, Hon. Geo. Brown
Bost eight roots red globe mangold wurzel, Wm.
Burgess
2nd do, John Pratt.
3rd do, F. Morrison, Hamilton
Best eight roots yellow globe mangold wurzel, Wm. Burgess
2nd do, John Pratt
3rd do, Jas. Carey
Best eight roots, long yellow mangold wursel, Wn. Burgess. 2nd do, John Pratt. 

 2 Brd do, John Pratt.
 2

 3 Brd do, F Morrison
 1

 Best eight roots khol rabi, Chas. Foster
 3

 2nd do, John Pratt
 2

 Best 8 roots white sugar beet, Simpson Rennie, Scarboro
 3

 2nd do, Wm. Burgesa
 9

 3rd do, Jas. Carey
 1

 Best 12 roots parsaips, James Carey
 8

 2nd do, R. Carey, E. Flamboro
 2

 3rd do, Wm. Burgess
 Trans.

 Best 12 roots chicory, Walter Reunie
 9

 2nd do, W. Burgess
 1

 Best 2 large squashes for cattle, Wm. Lottridge, Barton
 3

 Best 2 large squasies for catter, with the tage,
Barton.
2nd do, D. Lamont, Hamilton.
3rd do, F. W. Froeman, Hamilton
Best 2 mammoth field pumpkins, R. Carey
Best four common yellow field pumpkins, R.
Carey
2nd do, Thos Stock.
3rd do, Chas. Fostor
3rd do, Chas. Fostor DAIRY PRODUCTS, &c. CLASS 32 .- DAIRY PRODUCTS, HONKY, BACON, &C. &C. JUDGES-T. P. Wheeler, Woburn; P. R. Palmer, Thurlow; F. B. Smith, London; Joshua Legge, jr., Gananoque; Joseph Walker, Virgill, and A. McKellar, Best 3 firkins of butter, fitted for exportation, not less than 56 lbs. in each firkin, made by the exhibitor, Wm. Herbison, Goderich Township
Best lirkin of butter in shipping order, not less than 56 lbs., Geo. Stranger, Nassagaweya...
2nd do, John McClung, Falsirk
3rd do, Jas. Liddell, Ancaster.
4th do Donald Clark Pusiinch 2nd do, Mass Freeman, satabet.

3rd do, Geo. Stranger.

4th do, Donald Clark

5th do, Daniel Burt, Harrisburg.

6th do, Miss E. J. Lyons, W. Flamboro.

Best 3 factory cheeses, not less than 50 lbs. each,

with statement of number of cows, and man-fleet .... 2nd do, Platt Hinman, Haldimand township .... 2nd do, Piste Hinman, nacimal advantip.
Best side of cured bacon, W. Campbell.
2nd do, Joseph Wilson, Hamilton.
Best ham, cured, C. H. Bampfylde, Hamilton.
2nd do, Joseph Wilson
3rd do, W. Campbell. EXTRA ENTRIES.—First Prizes—W. Campbell, cured mutton ham; John Richardson, Louth, jar of maple

PRIZE LIST. Peaches, 6 varieties, 6 of each; 5 entries; 1st prise, by J. G. Teneyck, Grimsby; 2nd, by W. Upedell, 3rd to John Walker, Niagara. Early Crawfords, 8 entries, 6 of each, 1st prize, D. B. Gatbraith, Hamilton; 2nd J. G. Teneyck, Grimsby. Late Crawfords, 7 entries; 1st prize, Geo. M. Smith, Dundas; 2nd, R. R. Waddel, R. Price, 6 peaches, any other variety. Corrective Briton. 6 peaches, any other variety, correctly named, 5 entries; list prize, 8. Burner, Hamilton, 2d, 5. C. rearnside, Hamilton; 3rd, D. B. Galbrath, H. Milton. 6 peaches, white flesh, 9 entries; list prize, 2 W. Upsdell, Grimsby; 2nd, J. G. Teneyck, Grimsby; 3rd, G. J. Miller, Virgill, 6 peaches, yellow flesh, any

Best bushel Harrison potatoes, Archibeid
Thompson
Best bushel any other sort potatoes, H. Webb....

2nd do, E. Blagden 3rd do, H. Webb

other variety, 5 entries shown; let prize, E. C. Feare-side, Hamilton; 2d, Wm. Upsdell, Grimsby; 2d, Wen. Calder, Hamilton. Nuctarines, one entry, John Toung, les prize.

GRAPES.

GRAPES.

Best collection of open-air-grown grapes, 13 varieties. 2 bunches of each. There were 5 entries: 1st prize, James Taylor, St, Catherines; 2nd, W. Haskins, Hambiton; 3rd, S. Burner, Hamilton.

Six varieties of open-air-grown; 2 bunches of each, 16 entries, 1st prize, J. Taylor, St. Catherines; 2nd, Jobs Forsyth, Toronto; 3rd, G. Durand, Miagara.

S bunches of Concord, nine entries, 1st prize, W. Haskins, Hamilton; 2nd, W. H. Brookin, Ancaster.

S bunches of Delaware, 12 entries, very fine specimens; worthy of special mention. 1st prize, H. f. Brown, Niagara 2nd G. J. Miller, Virgil.

Adorondack; no entry.

Three bunches Diana; 6 entries; 1st prize, H. Bauer, Hamilton; 2nd, E. C. Fearnalde, do.

S bunches Creveling, 3 entries; 1st prize, H. Ross, Goderich; 2nd, W. Haskins, Hamilton.

Rogers No. 4, 7 entries; 1st prize, M. Hodgins, 30 Catharines; 2nd, J. Taylor, do.

Rogers No. 19, three entries; 1st p.; R. Hodgins, St. Catharines; 2nd, J. Taylor, St. Catharines.

Rogers No. 19, three entries; 1st p.; R. Hodgins, St. Catharines; 2nd, J. Taylor, St. Catharines.

Rogers No. 19, three entries; 1st p.; R. Hodgins, St. Catharines; 2nd, S. Burner, Hamilton; Rogers No. 19, three entries; 1st p.; R. Burner, Holiton; 2nd, J. Taylor, St. Catharines.

S bunches Emmilian, 2 entries, 1st prize, A. M. Ross, Goderich; 2nd, M. Bell, Hamilton.

iton; 2nd, J. Taylor, St. Catharines.

3 bunches Eumillian, 2 entries, 1st prize, A. M. Ross,
Goderich; 2nd, M. Bell, Hamilton.
Hartford Prolific, 1 entry, M. Bell, Hamilton,
Iona, 9 entries, 1st p., W. Haskins, Hamilton; 2nd,
M. Bell, do.

3 bunches israella, 1st p., M. Bell, Hamilton; 2nd,
W. Haskins, do. 3 bunches Israella, 1st p., M. Bell, Hamilton; 2nd, W. Haskins, do.
Allen Hisbrids, 7 entries; 1st p., J. Taylor, 8t. Catharines; 2nd, A. M. Ross, Goderich.
Any other variety, 8 bunches, 11 entries, 1st p., W. Haskins, Hamilton; 2nd, J. Forsyth, Toronto.
Of grapes under glass there were 12 varieties, 1st p.,
J. M. Williams, Hamilton; 2nd, J. Young, do.
Black Hamburg Grapes, 1st p., John Young, Hamilton; 2d, J. M. Williams, do.
Black Grapes, any other variety, 1st p., J. Young, Hamilton.

Black Grapes, any other variety, 1st p., J. Young, Hamilton.
White Grapes, any variety, 1st p., J. M. Williams;
2d, J. Young; 3d, S. Burner.
Quinces, 6 each, 6 entries, 1st p., J. Freed, Hamilton; 2nd, G. J. Miller, Virgil.
Water Melons, 6 entries, 1st p., J. Freed, Hamilton;
2d, Wm. Upsdell, Grimbey.
Green Flesh Melons, 7 entries, 1st prise, H. Wetk,
Yorkville; 2d, G. J. Miller, Virgil.
Citrons, 11 entries, 1st p., A. W. Taylor, Hamilton;
2d, D. Burton, Barton.
Crab Apples (nallve wild), two entries, 1st prise, 2.
Freed, Hamilton; 2d, J. Walker, Niagara.
Cultivated Crab, three varieties, 1 doz. each, cighteentries, 1st prize, 1. Springer, Barton; 3d, J. G.
Fearnside, Hamilton.

CLASS 45-LADING WORK.

Jupans.— Miss Anderson, Galt; Miss Burnett, Rem fiton; Mrs Col Gourlay, Hamilton.

Braididg, Embroidery, Needlework, etc. Bead Work, Miss E J Lyons, West Flamboro'...
2nd do, Mr James Parks, East Oxford...
3rd do, Mrs Bates, Hamilton...
Braiding, Miss E J Lyon... Crotchet work do do ...... Embroidery in muslin, Mrs James Green, Nor-Srd do, Miss M stricking denawa.

Knitting Mis J Mosley, Goderich.

2nd do, Miss J McMillan, Calt.

3rd do, M se Choate, Ingereol.

Lic work, Miss E Bildwell.

2nd do, Mrs E Martin, Hamilton. Machine sewing, family, Guelph Sewing Machine

machine sewing malify, Gueiph sewing Machine Company.

2nd do, Mrs Lawis, Salvord.

Need twork, o namental, Amelia Cook, Barton 2nd do, Miss E Weish, Mon real.

3rd do, Miss M Strickland. 2nd do, Miss E Welsh, Mon real
3rd do, Miss M Strickiand
Netting, fancy, Mrn A H Cranstor, Galt.
2nd do, L Parkinson, Eramosa.
3rd do, Miss L B own, Chinguscousy
Plait or bonnets or hats, of Canadian straw,
Miss F Biddwell.
2nd do, Miss M MA McIntyre, Puslineh.
Quilt, silk, Mrn James Park, East Oxford.
2nd do, Sarah Ryckman, Hamilton.
3rd do, M J McMillian, Galt.
Quilt, patchwork, Miss B Lewis, Hamilton.
2nd do, Miss M McIntyre, Puslinch.
3rd do, Miss M McIntyre, Puslinch.
3rd do, Miss A Terryberry, Bearnsvile.
Rag carpet, Miss L S Lundy, Drumamondville.
2nd do, Mrs J Richardson, Louth.
3rd do, L Swarthworth, Norwich
Rag mat, L Parkinson, Eramosa.
2nd do, Mrs Hinnan, Haldimand.
3rd do, L Hunchliffe, Hamilton.
Shirt, g ntleman's, Mrs A H Cranston, Galt.
2nd do, Miss L Brown, Chinguscousy
3rd do, Miss E Bilweil, Craimahe.
2nd do, Mrs Brock, Bownanville.
Tatting, Miss E Bilweil, Craimahe.
2nd do, Mrs Ara McGragor, Galt.
Indian basad work, Miss A Lyons, West Flainbore'.

CLASS 67—Ladmis' wash.

CLASS 4"-LADIES" WORK,

Flower, Moss, Hair, Wax and Worsted Work, &c. Blower, silver wire, Mrs Jas Park, East Ontord.
2d do, Mary E Smith, London
3d do, Misa L Brown, Chingunousy.
Flower, Seather, Mrs James Park.
2d do, Misa Bigger, Saltfleet
8d do, Mrs A F Terryberry, Beamsville.

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B LARGE BREEZE oth La Grace; John Young, York; O A gs, Hullett

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n esl mould-board Wilkinson, Bon-Thomas Tandle, Robinson, Bev-Gnelph

ivator, from Israe don od, J Borer, West es cuttivator, tron. se cultivator, wood,

ohn Doidge, Whithy Seneca W and J Jardina rd -

## LONDON LAND AGENCY.

No. 4—Westminster, 100 acres, 8 miles from the city, 50 acres cleared, good fruit section. 3,800 dol-No. 5-West Zorra, 50 acres, very snug place, 6 miles from Woodstock, good land, every convenience. 2,400 dollars.

No. 7-140bo, 50 acres. 45 clear, brick house cost \$1,350, good land and every convenience.—3,000 dollars.

No. 8-London Township, 50 acres, 6 miles from city on gravel road, 35 acres cleared, good land and conveniences. 2,200 dollars. No. 9—Township of Blandford, Co. of Oxford, 400 acres, 6 miles from Woodstock, good water.—

12 dollars per acre.

No. 13—Euphemia, 100 acres. 70 clear, 3 miles from Newbury Station. 1,000 dollars.

No. 14—Glencoe, 100 acres, 4 miles from Glencoe; price, 1,000 dollars.

Mo. 15—Nissouri. 100 acres, 70 cleared; plenty of out timber; elsy loam; creek and well; young orohard; frame house, etc.; clear deed. 3,700 dollars; 10 miles from London.

No. 17—100 acres, 7 and a half miles from London gravel road; good clay loam; well, creek, and orchard. 5,000 dollars.

No. 18-600 acres within ten miles of this city. 25 dollars per acre.

No. 19—two hundred acres, ten miles from this city. 30 dollars per acre.

No. 20—One hundred screes, four and a half miles from London. \$5,500.

No. 21—One hundred and twenty acres, four and a half miles from Glenooe. \$9 per acre—all woods. The timber will more than pay for the lot.

No. 23—Metcalfe, 220 acres, 180 clear; frame house, barn, sheds, splendid orchard; brick Cheese Factory; light clay land; hard wood. 2½ miles from Strathroy; \$10,000. Easy terms.

frame house and barn; orchard; spring creek; clay loam; 4 miles from city limits, near gravel road; 2000 dollars.
No. 26-North Dorohester, 100 acres, 60 improved;

house, barn, root-house; on gravel road, 10 miles from London; 3350 dollars.

No. 27—London Gore, 50 acres, 35 clear, clay loam; house and barn; orchard, good spring; 7 acres fall wheat; 4½ miles from city; 2500 dollars.

No. 23—Caradoc, 96 acres, 60 clear; frame house and barn; orchard; good wheat soil; 3 miles from Komoka; 2300 dollars.

Komoka; 2390 donars. No. 29—Peal, Wellington Co.; 50 acres cleared; house and barn; well watered; 1050 dollars; terms

No. 30—Dorchester, 193 acres, 65 clear; house, barns, orchard; well watered; lightish land; 3000 dollars.

No. 31-Dover East, 100 acres, 40 clear; 2 houses. barn, small orchard; 1, miles from shipping port; 1000 dollars; easy terms.

No. 32-London Gore, 57 acres, 40 clear; house, barns, good water; loamy land; easy terms. No. 38—Osprey, 100 acres, 12 clear, hard wood well watered: new frame house; 1000 dollars.

No. 34-Houghton, 100 acres, well wooded; \$400. vated; 3 miles from London, 2 mile from gravel road. \$1350.

No. 37-Delaware, 96 acres, 85 clear; brick house. frat-class farm buildings, 3 acres of orchard; a frame-house, rents for \$8 per month; good spring; on gravel road, 10 miles from city. \$5000.

on gravel road, to mines from city. \$5000.

No. 38—West Williams, 100 acres, 70 clear; excellent timber; clay and sandy loam; good buildings, orchard; 4 miles from Arkona, 8 miles from Parkhill. \$3500.

No. 41—Gore of London, 50 acres, mostly clear, good bush, near gravel road, close to city, excellent land. \$2,500.

No. 42—Ashfield, Huron Co., 158 acres, good loamy land, beech, maple, hemlock; no clearance; spring creek; on stage road, 18 miles from Goderich; cheap. 1500 dollars.

No. 43—Delaware, '98 acres, 80 clear. Beech, Maple, Oak. Frame house, barns and stables, orchard, good water excellent soil. 8 miles from London; close to churches and schools; a good chance; \$5000. Terms easy.

No. 44—Flamboro, 150 acres, 125 clear; maple, beech, and some pine; superior soil, good buildings, with every convenience; 15 miles from Hamilton-\$50 per acre.

No. 45—Delaware, 50 acres, all clear, sandy loam, clay sub-soil, well fenced, good spring: on gravel road; no buildings; 10 miles from London; \$2000,

clay sub-soil, well fenced, good spring; on gravel road; no buildings; 10 miles from London; \$2000, easy terms.

No. 46—London, 40 acres, 32 clear, good soil, spring creek, brick and frame house, barn, stable, orchard; on gravel road; an excellent place; \$2200.

No. 47—Delaware, 30 acres; good brick cottage and stable, 5 sheds, 2 frame barns, granary, large and fine orehard; on gravel road; a capital place, \$4000; terms easy.

No. 48—North Eisthope, one hundred acres, nearly clear, good land; brick house, 2 cotohards, board fence, good barns, driving hourd and stables, on gravel road, close to Stratford, \$9000.

No. 49—South Easthope, 150 acres, ninety clear, frame house and barn, well watered, good land, on givel opposite to above, \$7500.

No. 50—South Easthope, 25 acres bush, hard wood principall, back of above lot, \$600, all cheap for eash.

No. 51—Delaware, ninety-eight and one holf acres 80 clear, balance, oak, beech, maple, orchard, frame house, barn and stables, spring creek on the place, 8 miles from city, \$7500.

Smiles from city, \$7500.

Kandard Remondard Remo

Lands advertised and sold en commission. Terms, from 1 to 24 on sales only. Partics with farms or wild lands to dispose of will address, enclosing stamp, or apply to Canadian Agricultural Emporium, or to J. NATTRASS, Land Agent; Office, Market Lane, London.



## DUBLIC NOTICE.

DEPARTMENT OF AGRICULTURE, Ottawa, 11th October, 1872. VIENNA EXHIBITION.

In pursuance of an Order in Council, dated 2nd October, 1872, notice is hereby given to Companies, Firms or Individuals who may desire, to send on their own account articles to the forthcoming Vienoa Exhibition, of the following abstracts of rules furnished, and the offer of services tendered by the Committee of Her Majesty's Commission entrusted with the management of the Exhibition of Colonial productions. The Vienna Exhibition programme refers to

objects coming under a classification comprising twenty-six groups, viz. :

Group 1. Mining, Quarrying and Metallurgy.
Group 2. Agriculture, Horticulture and For-

Group 3. Chemical industry. Group 4. Substances of Food, as products of

ndustry. Group 5. Textile Industry and Clothing.

Group 6. Leather and India Rubber indus-

Group 7. Metal industry.

Group 8. Wood industry. Group 9. Stone, Earthenware and Glass in

dustry. Group 10. Small Ware and Fancy Goods.

Group 11. Paper industry and Stationery. Group 12. Graphic Arts and Industrial

Drawing. Group 13. Machinery and Means of Tran-Group 14. Philosophical, Surgical Instru-

ments.

Group 15. Musical Instruments. Group 16. The Art of War.

Group 17. The Navy.

Group 13. Civil Engineering, Public Works and Architecture.

Group 19. The Private Dwelling House, its nner arrangement and decoration. Group 20. The Farm House, its arrange-

nents, furniture and utensils. Group 21. National Domestic industry.

Group 22. Exhibition showing the organiza-tion and influence of Museums of Fine Ar., as applied to Industry.

Group 23. Art applied to religion. Group 24. Objects of Fine Arts of the Past,

exhibited by Amateurs and Owners of Collections (Exposition des Amateurs). Group 25. Fine Arts of the present time,

Works produced since the Second London Exhibition of 1862. Group 26. Education, Teaching and Instruc-

tion.
To the exhibition of articles, coming under the above mentioned titles, are added what is called Additional Exhibitions and Tempo-RARY EXHIBITIONS, the former having refer-

1. The History of Inventions. 2. The History of Industry.

3. Exhibition of Musical Instruceuts of 4. Exhibition of the use of waste materials and their products.

5. The History of Prices. 6. The representation of the Commerce and Trade of the World, and the latter having re-

ference to

1. Live animals (horses, cattle, sheep, pigs, dogs, fowls, game, fish, &c.) 2. Butchers' meat, venison, poultry, pork,

3. Dairy produce.
4. Garden produce (fresh fruits, fresh vegetables, flowers, plants, &c.)

5. Living plants injurious to agriculture and forrestry.

The Managing Committee above mentioned of colonial productions is under the presi-dency of the Marquis of Ripon.

The Secretary of Her Majesty's Commissioners for the Vienna Exhibition is Philip Cunliff Owen, Esq., who is to be addressed "Vienna Exhibition Offices, 41, Parliament Street, London, S. W." The following is an abstract of the rules as far as it may concern private individuals, i e.

a. Her Majesty's Commission is appointed to represent Br.tish and Colonial Exhibitors. b. Exhibitors will have to defray all expenses including transport of goods.

c. The Austrian Committee will communicate solely through Her Majesty's commis-

d. The Exhibitica will open at Vienna on the 1st May, and close on the 31st October,

e. Exhibitors are responsible for the packing, forwarding, receiving and unpacking of their goods both for the opening and after the close of the Exhibition,

f. The objects will be submitted to the judgment of an International Jury.

g. The objects for Exhibition will be received at Vienna from the 1st February until the 15th day of April, 1873.

h. The objects exhibited will be protected against piracy of invention or design.

i. Exhibitors and their Agents will receive tickets entitling them to free admission to the

On account of the limited space of time remaining, intending Exhititors should lose no time in placing themselves in communication with Her Majesty's Commission Committee. J. H. POPE,

Minister of Agriculture. London, Oct 26, 1872.

FRUIT RECORDER COTTACEGARDENER

A MONTHLY of 15 pages, at \$1.00 per year, edited by A. M. Permyy—a Hie-long fruit grower and flower fancier, having now rader entitivation at Palnyra, N.Y., and South Bend, Ind., two hundred acres offraits alone. Big silly pictures, dashion plates, novels, politics, &c., find no room in it, but it is strictly devoted to Fruit Gametine And Howels Addendern. Its high moral tone and rich store of practical, original and copied matter (from some 20 exchanges) endearsity all. To see a copy is convalent to subscribing. Specimen copies, free, or an exemption trip of four months (Sept. to Den) for only therets. Don't judget to be of no account became pricted in an inland town and the editor a working, practical fruit grower, but try it four months, and be satisfied. Address.

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For a Club of 4 new Subscribers .- Ten choice Parrot Tulip Bulbs. This is a chance no lady should neglect. Secure them and plant this autumu. See cut.

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For a Club of 6 new Subscribers.—A very large, handsome, and beautifully executed chromo, representing a vase of choicest flowers. Size 18 by 24. This picture is a perfect gem, and no one having seen it can fail being pleased. It is a beautiful ornament for any house. See cut. Three parrot tulip bulbs will also

be given with it. For a Club of 11 new Subscribers .- Two splendid chromos, same size as above, one representing a collection of the choicest lilies, and the other summer flowers. These are in every respect equal to the one described above, and form a beautiful pair of pictures. Six parrot tulip bulbs will be given with these.

For a Club of 20.—A very choice young improved Berkshire pig, either sex, and from the best stock; will be ready to send early in December.

For 30 Subscribers.-One good Cotswold ram lamb, raised from F. W. Stone's

Any one preferring Seed Grain, Small Seeds, Roots, Stock, Implements, Poultry of any breed, or Eggs in the spring, may receive them as prizes. A more complete list will appear in our December number.

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