## IIRECTORY.

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FOR THE
ADVOCATE゙:



LONDON, ONT., NOVEMBER, 1872.
VOL. VII. \{ $\left.\begin{array}{|c}\text { WLLLIAY WELLD, } \\ \text { Editor and } \\ \text { Propriator }\end{array}\right\}$

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Wiut ering VVee orbles.
$H$ w to Kill Weteds.
Transplanting Currant and Goome.










## Cucumbers in Eneland (ana ian Provgess.



Youth's Ifer Revinesi:-
Uncle Toms: Colunn Edit rial Not cis.
ADVEBTIERMEATs.

## The Provincial Exhibilion of '72.

 It has been a grand success, both financially and beneficially, considering the excialy and turbulent political feelings thattreme have been agitating the country, and
which, we muill rearet, slow more signs which, we much regret, show more signs
of a stronger interference than has yet of a stronger interterence than has vet
been felt in regard to the Provincial Exhi. betion and political agricultural affairs of
bie country generally. the country generally.
A most importaut subject was broached A most mportant subject was broached
to us while on the rround by one or more
gentlem to us while on the ground by one or more
gentlemen holding positions oi impor
tance in the enuntry
It was the mpan of tance in the country. It was the plan of
centering the Exhibition in some locality centering the Exhibition in somel locality.
At the annual meeting of the delegates to Athe Exhibition, held in the Court House, in Hamilton, it was attenpted to pass a
resolution to have the Exlibition perresolution to have the Exlibition per
manently established near Toronto. manenly estainsted tear
view this attempt to centre it as deterimen-
 could not refrain from making some re-
marks against such a course. The quesmarks against sich a course. up for con-
tion has yet to lo brought up tion has .ot At the next annual meeting for
sideration. An of officers and delegates of the
te e ection of the e election of ofticers and delegates of the
different a arricultural societies, it would different agricultural societies brought be-
bo well to have thiis question brom
 fore ine to send such delegates as would
farmess
represent their views on the questionrepresent their views on the question-
Is the Provinesial Exhibition to he perIs the Provinser herethere, or shall its in-
ambulatiug as heret

 would it be hest to have
We believe the delegates from the
chis , if , if We bected as hey have hitherto been, would
 where the , than of estublishing the Mimico
Farum ont



among the magnificent prize animale around the main arena of the Exhibition, eaded hy a plain, sturdy canadian iar ollegiate course. We may mark this as a
 of our agricultural atiairs. You may depend upon it that in nine cases out on what
he plain farmers know what is or whe would be most to the interest of agriculture far better than those who have bee ducated in the colleges, and whose atten es, which is pretty sure to engulf nearl the whole of the aspirants to position, thi acrificing all to political enda Let us all striwe, if possible, to build up
Provincial Agricultural Exhitition and all other agricultural institutions, rrespective of party feelings. Much may be said in favor of a GovernFarm ; much may also be said against a Government enacting laws for the purpose of suppressing ertaken by private individuals, on which they have expended large sums, and by which they have been doing good service to the counry. We still hope that ange to the voice of submit any great change They will have
the farmers of Canada. to pay all the costs, an the revenue of al others must depend on the products of our
soil. The farmers of the country should soil. The farmers on such matters as is of most importance to them. Toronto and other cities have great influence ; the most in fluential speak is heing made to centre more influence, wealth and power near T'oronto. We strongly oppose the annih lation or nentralization
cial A.rricultural Exhition.
The Board of Agriculture and Arts an the delegates acted wisely in voting for year not becuse Ottawa or Guelph have not inst and fair claims for it, but because it will tend to allay the feeling of discord and rivalry that has arisen through polit sociation and some of the controllers of the
Western Fair. There is and to make the Western Fair what it has heen, than the mere directorship of be half of the largest namber. of unbiassed and independent readers of the Canad not arricultural press, say that they do not
desire to have the Provincial Agricultural Fxhibition centered, neither do they desire to he taxed for the support of the Mimico Farm. If it is the vesire of the to carry on the Farm, let them pay for it.
he farmers do not want it, as it must be upported by a continual tax, directly or nnually, and will, as it has already dones tend to check private enteryrise.
the stock dipartment.
We should weary our readers if we were to describe hali what we observed in lass of animals. The horse department howed a marked indication of improve-
nent. 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 han in the blooded class. The roadsters and carriage horses made a fine display
and were a credit to our country. Blooded tock 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 and giving a great deal of labor to the judges to decide which to award the prize to, there being so many really superior
animals to be judged. We do not conanimals to becision of the judges, although demn the decision who feel aggrieved, and there always will be ; all cannot ob
tain first prizes. There was one animal or two on the ground that had carried off first prizes in Great Britain, but such was the perfection of animals exhibited that they were awarded nothing at our
tion. This shows the high standard of our tion. This shows the hike 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 hist
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 clasan, rin taked prizes bes over $\$ 200$, more or less.or taken prizes over
We sugkest such a course to encourage the suall beyinners, who are now a numerous know well they are unable to compete now the old established breeders or the long purses of our importers. This plan, we should think, could be beneficially carried into the
classes of sheep, as there is a ver competition in these classes and very f(w small breeders or beginners wis the lara their stock to consters. These beginners need encouragement ; many we know have attempted to gain prizes, but feel dis heartened because thed stock. We do no ried off by imported stort. courage Canadiañ broeders as well as im porters.

| 12 | present it does not allow. |
| :---: | :---: |
| It was a pleasing sight to see the Gov- |  |

## ,

$\square$


## The Central Exhibition.

The Central Exhibition held at Guelph was a grand success, both in regard to the inancial receipts and the general display of stock, implements, grain, roots, \&c.-
The various departments of the arts and nanufactures in the main building were well filled.
There are a few things in connection
with this Exhibition that are deserving of with this Exhibition that are deserving of age bestowed on it by the ladies. We have no hesitation in saying that a larger proportion of ladies attended this Exhibi-
tion than either the Provincial or Western on than either the Provincial or Western
Gair. The competition for prizes for arts Fair. The competition for prizes for arts ment was very keen. The display of butter, in quantity and appearance, excelled It was undoubtedly the largest display we have yet noticed, क्युत the quality was very
fine.
In the
In the grain department we noticed a the other Exhibitions. It is a variety of spring wheat that is succeeding well, on Which we shall tieat at some future time.
The different varieties of turnips were named, and prizes given to each variety named, andider a great improvement over
this we consi
the other Exhibitions. Why should not 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 improve-
ment of stock and of good farming. This ment of stock and of good farming.
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
nuch valuable time, and that it would be much valuable time, and that it would be
better to reduce the number of days. We better to reduce the number of days.
think it would be advantageous to do so

## The Catarrlh, or Horse Disease

 This disease has spread over our country t a rapid rate. It appears to be an epidemic apparently passing through the air,s horses are attacked by it whether thes are in the proximity of other horses or intluenza in the himman stecies; some are
int intacked but livitly, others the disease
athack a greater hold on. It comes on with
hat has a greater hold on. Ays the horse dishortrus, breathes hard, and appears very sick. We think there, is no prevention. Death may yesult if animals are over-
driven, heated and exposed to cold or rain afterwards; but Nature is the best re-
after storer. hwont to do; he says, "Rest me, or work me lightly, and I will be well
again." We do not approve of heavy doses of medicine, nild 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 have becln greaty alarme, drugged, blistered, steamed, purged, stimulated or reduced; but those that are cared for most that receive very little attention. The worst to be dreaded abont this disease is, that some will work their horses in such a diseases will most probably follow, that nay be dangerons and contageous. This or a similar disease swept over this
art of the country about seventeen year ago. It was in the spring of the year
horses could then run ou the grass, and soon got over it, but a railway contractor's
horses in this city that worked through hoe disease were taken with glanders;
ther instances were known, and death to

## horses, and, in one insta ollowed from glanders.

About forty years
About orty years ago a similar disease Glanders and death follo of Great Britain. ers turned from working their fome farmhorses 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 ; taw might with advan
ta tage be enforced in regard to horses that 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 surroundnd 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 glan
dered horse should be allowed to travel the public road.

## Agricultural Polities.

We withheld important remarks in re ard to our agricultural policy during th
ime of the great excitement of the ele tions, at which time every remark was sought for that might tend to turn the balance of power. the agricultural interest irres bective of either party. You may all admit that this paper should be maintained or agricultural purposes only, but there are very few, if any, that can imagine the
difficulty of such a course. In fact, it ppears now to us almost impossible. Political interests have greater weight and draw more money than agricultural interests. Werliament the questions at issue in regardto agriculture may be discussed without party interest being placed before
agricultural interest. Many will conagricultural interest. Many will con-
demn us as being political and serving lemn us as being political and serving
party. Our party has beeu the agricultural interest, and no fair or honest man can gainsay it if they have read o
lication from its commencement.

## The Importing of Farm Stock by the Provincial Governme -The Model Farm.

The Markham Economist charges u with "attempting to prove that the Gov ernment is doing a great injustice to the stock treesers and Moderters in Ontm." In the by establishing a Mere is not a sentence aqainst the establishment of that Farm.-
This is a subject for future consideration. The question on which we are at issue The question 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 po
litical economy, and to the plain dictates of justice that should oharacterize the of justice that shou Government and the members of the community. Nor is it the importing and raising of a few cattle of
the very best breeds, as is now said in pal. liation of wrong doing-it is the import ing of stock "as a neans to all farmers securing the best stook."
Nor was it from any observations made
at the meeting of the Farmers' Club that at the meeting of the Farmers' Club that ment. The Minister of Agriculture was our authority-no mean autcority on torsubject. The palliating excuses put of the error of the project, to give it the mildest name.
In re-publishing from the Economist the report of the Farmers had no wish or expectation that it should be thought to be from our reporter. We having received the paper, handed ur printers, expecting that it was omitted, dit would he given. In was ome.
There is an immense amount of lumber
iled on the route of the Southern extension piled on the route of the Southern extension
of the W. G \& B. Railway, awaiting the of the W. G. \& B. Railway, awaiting
completion of the road to be shipped.
the penings h
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brought into brought into
citizens of th which, I beli
the manufac minion.
Our Fair and when present occa
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## of Farm Stock by

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## Economit charge as

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 Ain of tew fatitio of
 moks, nity bioration mak entiona of the Sovernm



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 Tans initad

## Renes manto of lumber

 of the suthene extason Railay, anditedThe President's Address at the Provincial Exhibition, 1872. One year since, on an occasion similar to the eaddress of my predecessor. How short that time appears when looking back into the past point farthe were assembled at Kingston phorgs have as yet been held annua gatherngs 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 which, I believe, deservedly ranks first among
the manufacturing, centres of our vast $D_{0}$ minion.
Our Fairs here have ever proved a success
when I look over our grounds on the and when I look over our grounds on the
present occasion, I feel that the farmers, me preseniss and others, who have lent their aid in the talent and ability displayed by oach, in
their various contributions to this vast col lection, have indeed something of vhich to feel proud, and may well rest assured that
they are contributing to the building up of they are contributing to the building up we may justly look as the boast of our posterit in the future.
We have great cause of thankfulness to peace and prusperity ; and although the drout n the early summer affected the crops in some
ocalities to a considerable extent, and the west has suffered severely from the ravages of he Colorado potato beetle, which has now 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 we have plenty, and to spare ; and and are
blessed with ample means to provide the necessities and comforts of a home.
extent, and is marked with decided success, so that those who have advocated its introduction have every reason to anticipate that As our country becomes more opened up, we see the greater necessity of providiug green
food for our stock (particularly cattle during food for our stock (pati:cuarl the grass has
the summer months), when become parched and dried up by the hot cast or thickly drilling Indian corn at different times during the season, so as to be cut and
fed to them. hive been tried with success, and is likely to prove a gre it boun $t$, the dairyman
The results of our labors for a short twelve month have been brought together, and openly judges of the fertility of this fair Province of forming the nuc'eus of one of the strongholds which I pray may never occur), of forming he centre of a great and prosperous Inde-
pendent Nationality. Our motto is "Defence -not detiance ;" and, as was said by my every occasion to resist oppression, we have
nothing to gain from, nor do we desire an
no aggressive pulicy." Our aim is to promote the and happiness of nations.
Western Peninsula, by opening up the natural Watercourses, and in some cases cutting arti-
wati-
ficial ones, is producing a marked und growing watercones, is, producing a marked and growing
ficial one Lands which heretofore were totally
effect. Lin unfit for cultivation, and worthless, with the
exception of a small growth of wild grass for pasture, are rapidiy being and aught found to be the most fertile, productive and remunerative thus amply rewarding the proprietor or tenain
for any custs he may have incurred in their In looking over the past few years, I canno
but observe the many changes through which we have passed, and are passing. One of the
prixipul of these is in the manner employed in carrying on the operations of the farm. Hi
wh hires farn laborers now can seldom obtain
wative born young Canadians or Americansnative born young canadians or Atmericans
farners' sons bred up on their fathers ${ }^{\text {farm }}$
and at home in all the minutix of farming and at home in all the minutia of farming
such as were the hired men on ourfarms a few
sor is it any less difticutt in most sections of the Province to obtain a farmer daughter as the "Tired girl, eilher for now-
awrrk or dairy. To obtain skilled labor now
a-days, is in fact one of the greatest difficul-a-days, is contended with in carrying on a
ties to sbe cont
farm.
Fortunate indeed is it for us that so nany labor--iaving macines were introduced,
before this great want haid become so much

fail to appreciate our indebtedness for both
individual and tational prosperity to the strong arms and stout hearts of our our toreign inmigration, but that class of laborers require a ong and patient teaching before they are pable of managing our machines or hatading of farming, generally ; yet these men are apt to
xpect the wages of our firstoclass Canadians. peect the wages of our first-class Canadians. hat class are unsettled in their habits, roving and with no local ties to bind them, ready to eave for trifling
of higher wages.
The question is
The question is becoming serious, but how
is it to be avoided ? it to be avoided
The most feasible
of encouraging the employnent of married nen, and building suitable places on the
premises in which they and their families can eside ; thus they become permanently settled, and feel that they have a home of their own heir interest becomes more and more iden-
ified with ours, and our influence is ${ }^{\text {more }}$ 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 themselve By this means they not only board themselves,
but we can frequently avail ourselves of the nuch needed housetared wives and daughters If such a system were generally introduced, I believe all parties, and especially the aborer,
would be better satisfied and permaneutly I beulieve ba be
would be
benefited.
Another
Another very pleasing change is found in
the constant improvement which is 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 now ind the well tilled, his humble dwelling
ceared and
replaced by one nore suited to his present wants and comforts, his outbuildiggs being
renewed or extended to meet the requirements of his increasing stock, which is every year
becoming more valuable by importations and becoming more valuable by importations and
direct crosses with pure blood, his orchards, now approaching maturity, supply every wan
with the choiest varieties of fruit, and he begins to think the pleasure curtived fron
looking at a few shade or ornamentaltrees wil
amply reward him for the care and cost of amply reward him for the care and esst of
providing them. In short, he just begins to feel a self-respect and iodependence, thich
more properly belongs to his than any other more prop
caling.
There is productive of emotinns of pleasure, yet demand more than a passing notice. I refer
to the growing aversion cxhibited by many our young men and boys to honest manty
toil, the tendency to leave the farm for the
whirl and excitement of the pirn, whirl and excitement of the city, the uu-
certainties of the professional or conmercial
The very tern ". Commerce" seems to carry
with it a kind of spell, and they forget that with it a kind of spell, and they forgee that het. some agency or patent right, in short,
Yet.
anything the anything that demands travel or produces
excitenent, has a fascination for the yurg man that seems irresistible ; and we frequentiy
meet sound, able-bodied young men peddlinh
mee the country with some simp'e little contrivance
with an energy that would have done honur to with an energy
a better cause.
Commercial
Commercial pursuits are over-valued, be-
cause they lie more upon tie surface 'and are


## 

 mere drudycty, but an intenigee elise of theresources of nature. Now tore
ligence and taste so readily ripen do intel ligenc- and taste so readily ripen the con
ceptiou of the mind int utility and beauly
Go to the towns and cities, and you will fin to to the towns and cites, ane who went there
that a large majority of those
as country boys, instead of achieving wealth as country boys, insteand to thess than they
and fame, have attained to lest
would have neinyed had they followed their zoutc have enjnycd had they
zricultral pursuits. and many are rapidly
inking into the lowest depths of degradation sinking into
and misery.
I have very "great pleasure in beina able,
say that the "Ontario Veterinary College" it
being carried on with much shes. being carried on wumber and popularity. Durin, the past winter the number of students attend
ing its lectures was upards of fifty, and at
the last exanaination fifted candidates were the last examination fiitteen candidates were
a warded the Diploma of the Board. The
prospect is, therefure, that in a short time we
shall have a skilful veterinary surgeon in every
part of the Province on whom to depend in every case of emergency.
The grant to the Entomogical Society is till continned with favorable results.
Financi:d prosperous condition. and not withstanding the ery great falling of in cur receipts at the mountincto to several thousands of dollars, yet e were able to pay all our liabilities and repcrt
reliable ba'ancein the hands of the Treasurer. With regard to the Denison matters, I have much pieasure, in being able to say that a nd the balance is amply secured by mottrage
on real estate, which has increased fifty per It has been suygested that so grand a
It has the the sent opportunity for discussion on agricuitura3
opics as is aftorded by the meeting of so many elegates and judges, all leading a griculturist. rom different parts of the Province, shound
not be lost; and althouch the members of the Council mirht not be abie to attend, owing to
pressure of "other business at that peculiar pressure or a neeting might be organized.
tine, yet a
different topics of discussion selected, and such discnssion form a leading feature of our fiture 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 connidence in his statements: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 myy duty to the puhbic to offer the following hy
of the disease
It is indicated by dulluess more or less, the pulse is quick quick, a very deep hacking cough, the lining membrane of the eyes and nose of a yellowish tinge, th
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
lunps from the throat. Weakness is one of the earliest and most prominent symptoms. In most of the stables they have
taken it almost simultancously. The principles of treatment will consist
in the first place, of thoroughly ventilating and cleaning the stables, and sprinkling the Hoor with carholic acid powder, (much
better than solution). Keep the animals varmly clothed, but keep the stable cood,
without draughts; ; give them no dry food, especially oats; linseed tea, oatmeal gruel,
boilcd oats, bran mash, carrots, apples and hoiled oats, bran mash, carrots, apples and
breal, will be found the most nourishing articless to offer them. They should be en couraged to drink as much linsecd tea a possymust i, drenchell with either the tea stimulants and vegetable tonics should be given early, of which ciachona bark an
gentian are the best. in half ounce doses given three tunes a
day with gruel, has marked effects both in preventing an! modifying the attarks. The
throat should be mililly blistered, and, in chest als. It is of the greatest importance that they be kept from wet
owner will study bio own interests by keep,
ing them from work, especially in cold damp weather. So lon, as they continue to
feed well and the weather is fine they may be workel noderately, with blankets under the harness.
These renarks refer increly to the dis-
ease senerally, each case presents its own ease inl pecyliaritirs, and reyuires special
speribel
prescription, of which the qualified practitioner is hest able to judse; but as it i
next to impossible to visit and prescribe for
all t all the cases at present, I hope the abov
remarks nay not ouly he of use to th
public, but of nerrice in relieving the pro puthic,
fession.

Agritullture.
alue of steaw to feed stock. [The report of the meeting of the Blandrom an English paper, will be interesting
0 our readers. The opinion of the several reakers as to the value of straw for feed ised it for that purposo for many years in the old country. 1 found my pure-bred Durham cattle as well as grades throve ell on it, withins cabbages, or rape twice day during the winter season. The attle were kept perfectly clean, and fed regularly, and care was taken tho free from
traw as fiesh as possible, and fremer ny taint or foul smell; and they were, when turning out on pasture, about the
wh

At one of the meetings of the Blandford
armers' Club, Mr. J. Ford said :-" Farners were obliged to partly feed their beasts aud sleep with straw; necessity
had driven them to do what they had
 very long time that hay was some of the dearest food we fed with. What I mean
about hay being expensive food is this : I about hay being expensivers pinch their sheep by keeping them short of food dur ing the months of April and May, all for the sake of having a great stock of has
for the next winter. It 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 ver, and not think so much about the hikely 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 the quantity if we pay a little more attention to straw-feeding we can keep our stock so as to make it answer our purposea better than to depend so much on hay.
We can winter our store beasts well with a liberal allowance of any straw, and a ittle addition of a few pounds of cake or oru per day for each beast,instead of keeping them on huy. I have for many years nay 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 ptraw valuable, taking
into consideration. In cutting the oats be-
fore they are quite ripe we mave all the fore they are quite ripe we save, all the
best oats that would perhape fall out if allowed to get ripe before cutting; and
should there be a few under-ripe corns that shouthreshing machine would not take out the straw would be none the worse for it
I also like to cut ny wheat rather gay. I also like to cut ny wheat rather gay.
find ly so doing I yet a yood bold sample and I find the millers like it better, and -we do not get so much prime corn shed owe 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 o have, it fit for malting. I last year roots and straw, and have done the same
many times before. They ate the straw very well, and were certainly in very tood stnre order. Try your improved Hampshires; see how they likeit, if they will
eat it. I think it better than to depend so much on hay. Many people, I finl, are cutting a great quantity of 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 tōem have a sufficient ${ }^{\text {fon }}$ quantity of straw as it in, and save the expense of so much better in that way. I fat some quantity of oxen during the winter monthe I I
never think of giving them hay, but I cut
straw into chaff, and pulp up about one
lushel of mangel per day for each beast, and mix it up with about the same quantity of chaff, having one day's food prepareit 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 fond of it, and they generally keep in good
health and fatten fast. It behoves us to health and fatten fast. It If we have more one season than we require, by all meaus
let us thatch it; I have often found sheep and beasts prefer old straw to new. When and beasts prefer old straw to new. When
I pulped the mangels and mixed them
with chaff the beasts ate it better than with chaff the heasts ate it better than
when given whole.-Mr. Honer quite agreed in giving only a small quantity ", lieving that animals did better with the 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 hall used beat deal of straw this year, and kept great quantity of stock, and they had got
on very well. He gave his sheep straw in on very well. He gave his sheep, straw in
the tronghs the early part of the season, and. afterwards gave them rhaff mixed
with other food. Mr. H. R:chard hai tound that animals fed upon whe an!
straw did remarkably well. The only straw dit remard to straw was its harshness, to reduce which he understoold that a machine had been invented, and was in
use for crushing the straw, and this plan use for crushing the straw, and this plan,
he believed, would be far better than using chaffi, for if straw was cut into such small pieces, it was somewhat difficult for the ayimal to get hold of then. He had not
given straw to sheep, but he knew of one given straw to sheep, bui sheep straw and
sentleman who gave his she hay cut into chaff, with a pint of malt-dust mixed with it a and the animals were in
firstrate condition.-Mr. C. Fowler stated first-rate condition.-Mr. C. Fowler stated that some years ago he had and finding it no beans partialy blighted, gan an engine, and had the whole bruised as much as possible. The
engine stripped off the leaf and pods, engine stripped off the leaf and pols,
which the animals ate, but would not cat Which talk. He then cut some up as chaff,
the e taixed it with malt-dust and turnip)
and mater and the cattle improved upon it. He was of opinion that the straw was too dry for was very little proof. He was of the same opinion as Mr. Ford with respect to the advantage of cutting oats and wheat gay
The reason was that the moisture was retained in it. A short time ago he wen to Lord Portman's, where he saw a machine at work bruising gorse. When it in a wet state, and the cattle ate it readily, in a wet state, and ghecatieved that gorse would be found a valuable substitute for hay.-Mr. T. Frr anid he thought they had trusted too much to the hay crop, and id the corn crops wer straw, he was of opinion, was not so palat ahle to animals as oats or barley, because it was too flinty. When he cut his oats
this year early his man remonstrated with this year early his man remonstrated with
him, but he told him he was going to adopt Nim, Ford's plan-cut the oats green, and let then stand in aisle some time, and h conyratulated himself that by so acting he hid a first-rate crop, his oats weigning
scove 16 nett. He had been feeding his scove 16 nett. He had been tecnu hay in
ewes on barley straw at night,
the morning and was surprised to see how the morning, and was surprised to see how they throve upon it. He gave them as much
strav asthey could eat. Hishorses had becn eating chaff, and chaff alone, but he hai picked up a good idea that evening, and
would not continue that plan. Thic first part of the year he began with oats-sis animals did well upon. They then hat whicat-straw, but would not eat it, and this was, he believed, because it was too to oatstraw mixed with meal, and from his experience he was perfectly satisfied that farmers would do more with straw as an article of food for though he would like to have a nice rick or two of hay just now, he should not in future sacrifice his stork be shise he had not enoust straw

Galpin) said he had never used straw as
food for sheep until he looked over his neighbor's (Mi. 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. Frofessor Voelcker some time ago wrote au article in the Royal Agricultural
Jorreal on the use of strav for feeding purposes, and the rractical experience of all his riews, viz., that the straw cut green was tine most nutritious. He also gave an analysis, which showed that oat-straw
was the most nutritious of all straws. The sult of the Professor's researches proved that pea-haulm was the most nutritious, aats next, then pea-pods, bean-straw next,

## ffabis and fabmina in great britan.

 At a recent, meeting of the American Insti-tute Farmers, 'llab, DT. J. $V$. C. Smith stated
he resuits of hix olservatis. tute Farmer
the ressilts:
as follows:
fols we
"As we pass rapidly through the best parts
of Iclend the anount of land devoted ex-
clusively to grass is a peculiar feature. The present season the hay crop appea ed to me to
be remarkably heavy. We rarely see on our be remarkably heavy. We rarely see on our
best fildst such a heavy growth of rass. It
may not be so considered by those who manage may not be so considered by those who manags
them, but the thick appear.nce of the grass.
its suculent and tender fibre. gave me ani im pession that it wend be both swe the and very
nutritious the humidity of the climate and nutritious. The humidity of the climate an
a lower temperature than with us must con-
ribute essentinilly to such pruperties. Barn tribute essentitilly to such pruperties. Barn
are an unknown convenience in Ireland, Scot
land, Wales, or England. We rarely see any are an unknown convenience in rarely see any
laad, Wales, or England. We rarely
builchin for storing hay or protecting stoc
tuct much larger thanl
limited capacity.
"Hay is is
 fowas repeatediy assured that when three and
fonpears old such hay is onsidered infinitel
inproved and always inore valuable havin improved and a ways nore valuable, having
iost none of tits essential elements loy hong at
moslheric exposure. It is carefully cut down moxpheric explosure. It is carefully cut dow
perpleatidenlarly and fed out without waste--
Al. fences in the kingdom, with few exceptions

 parely removed, and consequently, the forr
rand domensins of fields remain the sane forr
and
lons while. It is probable that the lensth lons while. It is problable that the lensth
leases throurl three or nore lives conduces
that stability of field denarcations.
 fence more difficult to poss, while the earth a
first thrown ut gives elevation to the thick,
almost impassable wall. hrist thrown out
allinat impasable wall.
"Throughout Scoll



 tiva atio, hut becter nurtured, and therefor
more irofitable. Fertilizers of every possili description are very earefully preserved. Wo
Waste or allow on wasterl, what an wryish
waste, would carefuly er lect as a precious armer would caref
sonce of prowperity
i" $\mathbf{y}$ "IOonsee extensive fiels of bettsin England Hirevips thousands of bushe's to our ten. Thie
fact is esthblished the the shrars they conte





 he as spring and autumn dury to ent to have it
thanyphantation. Our farmurs ought
And


 hirses insteach of own farm work, as we do,
hinds and breed for form
without reference to the bild, weihht, or phy.
An Enyligh
farm horse is a sort of monster for anatomical
build and strenth.
Wiensely enlarged very large feet, im.
Wppearance. with shagy mensely enlarged in apparance with shaggy
hair growing in profusion from their knes to
the margin of their hoof their strengh is air growing in profusion from their kne es to
he margia of of their hoof, their trengh is
heally prodigious. Of course they rarely move eally prodigious. Of course they rarely move
beyond a walk, and are consequently in vigor
ous health and their puwers of endurance unqualled.
mproving the under-sonl. 0
Our land should be mellow under where
col anmes in contact with the lower roots as well
as in the seed bed. The roots want space to
asuriat
 thoroughly worked at the rroper time, and wi
see what fallows and gardens and such soils
 we ever knew was ne where the mellow sol
was turned down deen the llow runnig t
the beam), richness and lousentess of soil below the beam), rip
for the roots
turned $d$ wn turned d wn was rich; had receivet a conat of
horse manure, and was well saturat d with its
substance. Is is below where the work
goes
 confined to the surface, which, in a drought
will be too dry, and will soon have its sul
stance absorbed. A deep, rich undersuil wi stance absorbed. A deep, rich under-soil wi
also keep moisture the elonger, hence the si
or a dry time. The air will reach it also kep moisture the onger, hence the si
ror a d dry time. TTe air will reach it, whic
is another benefit; ;it will plow the better; wi another beneat; it
neasurahly drain itself.
By turning d
day soil, bringing up the raw harsh gound, by ay sii, bringinc up the raw harsh go ound,
Hing there will be a pretty mellow surface
anure applied, and this harrowel in with Lanure applied, and this harrowed in with the
grain, thene is a a chance for an exceile.t crop.
Corn on such land will do so. will roots; so
 ingly; they will strike their ros downward
nd the mellow soil (le' 'ow) will stand in lita cultivation, and will retain moi-ture. is
马rass it is believell deep cultivation is
necessary one of the greatest errors in farm
 leep, rich, thely cultivated s.ind This neve
ails where there is ,henty of seed $u$ sed It es scilfor wheat-this deep, rich, undercuitur
preventing water from standing and sururg
he land during the winter, and from heavin it the spring.
We are afraid
speciall to turn tit dnwn deep and bring uis



 t; the evidence of its success is on the face
t. We would not advisc the plow to run twel.
hches when the tanid is acult
 new and the mannuere influenciritsoth
Thus far we have not used the subsoil nlow

 sool is less raw having leen sumewhat wive red
upon ty the ari and rain water Bnt never
work the sulboil when wet. - Prairic Furmer.
solung cattle
 lays down the followiog pras autumn, Bow three
of tweve cows:

1. Earl. Whe previous ant 1. Earl, the previous zutumn, gow three
acres of winter rve, to be cut the next spring
from Mavy 15 to June 15 .

 barley, to be cut from July 1.5 to August 10
5 . Middle of May shw two acres of oats
barley to be cut from Auruut 19 to Sppt. 1 . barley to be cut from Ausust t9 to Sept. 1 .
2. Middle of June replant plot Xo 1 with
corn, which is to be cut from September 1 to

to ${ }^{15}$. In September three acres of plots 4 and 5
3. spring's sue.
Me. Warings
entes
aner. principles: lit. The carliest ahundant food will be se cured the the usse of and noter ahundant fond for
hend. The best
he later summer and earli, rautuun time will the later summer and earli, r autumn time will
be seurret lyy the use of Indian corn.
Josian Quincey's methoid of soiling is as fol May 20 to July 1st, feed cut
early clover, rye or orchard grass.

Jonif to pit,

 Oocober to Noveiember, feed tops of vege. trabest Docembere to next May. feed hay and

 and





 Iacre eved ose

2 are es sugar beets and mangels.
For winter food, cut hay from. ten acres of
dover or timothy, and riots from three to five cover or timothy, and ri. ots from three to five
acres additional. As the grou d becimes more acres additional. the the grous capacity of each
and more rime the feeding cal
acru will be increased, and in t tme douled so acr will be increased, and in time doubled
that wenty acres can easily maintain twelve
fifteen heal the year $r$ und. A the man that twenty acres can easiyd maintain the man.
to fifteen head the year $r$ und. A 1
ure made aist be returned as atop. tressing.
I knuoughts on foreign marmint. I know of no more surgestive material for
American farming experiue. ed by the wril dijested r t sulis of agric.lture
 fail to 0 ye the same accurate idea of the modus operancit that would be affiorided by practical xperiences, careis of tillage in this cuntry
the peculiaities of
would, in sc res of iustances, render the ditata
 haps an examplo ored by maye Enyl sh writere,




 and a more pulverulent condit on of $t$ mold
as desird. the fur rows are lainced and lie at an


 subhle or p. But light soil cos tairing les
than say, five pe cen. of humus nould rovit
thy a din dea.
 in the autum one furrow flat on top, of an
equal wiltu of hand, he stubtle, whether of

 at a kind of axion that thed. best t plow in in is done
wh.n the delth of the furr w $1+$ one-half of ita

 wight he male to $y$ eld with far greater abur
anc, is fond in the pract co of using bur, ed
cla, for theep bedldi:
ch, which, froun its alson
 tin ing t
is $\begin{aligned} & \text { c.mm } \\ & \text { brick } \\ & \text { aswers }\end{aligned}$
 The manue pr viled br its ins. has the pecen
e ity of beinu suitab e tor either lyht or heav

 ainmoniac. 1 and other elenene.
tainesl in the sheep namure. taines in the sheep manure.
while speak ing of feriiners, I may dilate a
littlu upon the chemical txpe , iments that dur-




fore, sets it fit
should be fie ac ion will be
cla. 1 nuds w
this cou try this cou try
liverate the trials having
the potahh ca
wet condi ion Keassuning
would prove as es, whi ih
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ly to yield to
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how мосн Some year
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hongs and put
thee of the five pounus
sive Lots.
con, with averaye ga
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fa tened in others were when siaugh
of October. snow durin
gavee he ho
would not h favorable;
quality of
of c.rru w wis and twe.' and one-h
farmer yets
fabor for
lat twenty- -ive
faster in
in colder w silother
guth stat it
What is it weight of
Io may be
of tie gi gi of the ge gas
hotst feed
one huid pounds,
houto
peinds ar barrels f
c.l.ver an
hundred and hifly
Hogs
water, an the mon
hauls it
his labor saving of
when the
field suit.







## 

 done at once. Corn is grown and so man-aged that it is always a good crop. Heavy treatment according. Now and then wheat
is raised, and sometimes peas Som is raised, and sometimes peas. Sometimes
winter wheat follows a heavy crop of peas,
the the peas leaviny the land in a rich, melow ed to, as when a newly-purciased piece
reyuires cleaning. Here is success of a
hign order-perthaps the bighest, when we hign order-per aps the bighest, when we
cousider protit on the investment. This man knows nothing of the science of furming as popularly taught; he has his own science eathered from hoas own experience
the science of his locality. To move to another place, with soil and climate differanother papoly the sume treatment, would be injudicious. The knowledge of the
localty must first be acquired, and that locality must first be acquired, and that
can only be done by experieuce, taking tume. The same products are not grown, or not to the same extent; different inanagement is required. And so, not only ten meut, but the same tarm and even the same field will otten vary, aud that not uutrequently with apparently the same
quality of soil. There is a secret, particuquality of soil. There is a secret, particanotably the grape and tohacco, that is yet to be traced. Test alone will determiue
this. Our scientific and practical men are 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 lacts not other wise obtained. It can be it will be only aid, as books are an aid to
the thinking man, not the whole of the the thinking man, not the whole of th
main thing, as they are so often made."

New Dratinge
su ject of plowiug. I
an led lec to mention to a new su ject of plowiug fately invented in Eng land which seems goor whice some additional m- m rovemenis to make it fulfili all the couditione
of a successful invention. It is decribed as
and comprising "a series of plows placed one
vehind the other, and arranged is the same vertical plane, but at increasing depthi- below
the surface of the ground, so that each plow the surface of the ground, so that each plow
nay cut off its own horizontal slice of the
r.unired thickuess." $T^{1} \mathrm{e}$ trouble with the r.quired thickiess.
appatus will be tound in trakie wing the se siil to the ground at the edges of the ditch (without increasiug in'rdinately the leng th of the
nachint) as t e earth can hard y he forced up an inc ine of more than twenty-three deprees
by the simple forward motion of the plows. s mee mechinical deviee to aid the upward
and back ward movement is req , ired, and it and to be hoped may be provided d for there ar few iuprovements mo e needed in American
farmun, than cheap and simple meaus of farmung, than cheap and simple imeans of
making drains. It may be renarked, with
reference to ayricultural machinery, many making
reference to asticultural machinery, many
inventions of fureign oligin lave a direct bearing on some of thee more extensive
branches of fasuing here. As for example branches of
an Aus ralian harvesting and thrt sting pa ma
a me trount out a year or tno since, and c ine, brought out a year or tno since, and
designed for the same purpose as several har vesters of Calif ninial origin, namely, of
"heading" stauding grain, thresting the "heading" stauding grain, thresting the
heads, and wiunowing and sackiug the grain. head, and winnowing and sacking ing, fit ith
It differed fonn the latter in comting in heads by a kind of metal ic comb, instead
severing them by the vibratory movement severing them by the vibratory movement
a harvester sickle. In the operation of th a hart nent oned device a sonnewlat andacioun idea has been suggested in Eng and, and. if 1
remember rightly, patented in that country. remember right, priennecting rod of a small
It is to attach the conne
steam engine diect to the sickle or cutter of steam engine direct to the sicke or cut ower
a reaping machine, thereby getting powet
enolgh to cuta a swath twelve or fifteen fee enongh to cit a swath of the horses altach
wide, the strength wide, the stenuply in moving the arparatus
being exe ted simpla More recent than the above
over the ground. and in quite a different line, is a armin
Asphyxiator, exhibited at the late Cardiff h. h. in Wales. A sm ill vessel is prycid+d
wlich noxi us cases arezenentted by chemica Which noxid us cases are genen ted ei worked by
means, and which has a fan-wh ee hand to force the gases out in a a trean throuzh a pipe. By thrusting the nozz'e of the ppe pe
in oa rabhit hole the animal is quickly driven out. Perhaps the device could be applied to
the capture of prairie dogs, gophera, wood-
chucks, and similar burrowing quadrupeds,


 General of Enyland, to whomp 1ve are larzely ia-




 hotel - keepers; grocers; ; miners; babourcre
(agricultural and otherwise), and backniths. (agricultural and otherwise), and backsmiths
Oi all these classes, farnuers were fund to O1 all these classes, farmers were found to
be, on the whole, the lungest livers, il
though, stra ge ga it may seem, hee morThough, strange as it may seem, was, be
tality, among young frmers was, be
tween the ages of tweuty-five and thirty-ive tween the ages of twe thity among laboters a
higher than the nortality
curresponding aues. The classes aluung whict corresponding ayes. The classes aluung which
the heaviest gate of mortality was experienced the heaviest rate of mortality was experiencet
were uiners, bakers, butchers, inn mad beer whop keepers. Betwen the ages of forty-five
shd fity-five the annual rate of montality
and among the whole population of England was
18 in 1000 . Statistics show that, out of the same number of farmests, twelve died; of shoe
makers, fifteen; of weavers and others ell aakers, ifteen; of weavers and others en-
ployed in the manuacture of silk cotton anc Wool, fitteen; of grocers, sixteen; of biack miths, carpenters, tandors; of bakers, twenty ne; of butchers, $t$ wenty three; and of inn and beer-shop keepers, twenty-eight. [Such is the
great longeviy of farmers compared to other lasses of soci cly.] Potash in the Soil necessary food pors.
the Porato.-In order to prodice god crops
of potatoes it is necessary that the soil wherein hey are p'anted have within itself, or supplie To it by manure, a sutflcient quantity of soil a quantity of potash and of phosp:onicaci, which Hust be supplied ane N. Di. Nichols, in al wiy a crop of potatoes exhall:t the fertilizint
tualities of the soil: - $A$ field of potatos
iel fielding 200 bushels to the acre
from the soil in tubers and t teps at least 400
and phosphoric acid." Now, these amounts are very
large large, and show that she potitu plant is
great consumer of the two silustances, and alsi thew that in crder to restore our potato field
to their former productive condition, we mu t. to their former produtive cundition, we man
supply phosphatic conpounds and snbstance supply phosphatic largponantities. For six ox
hupding potash in lare
eight eight generations our farmers have been ex-
hausting the soil by these agents in thei potato and other crops, and we have reacher
the tinue when the vegetali es starving in our fields for want of its pioper food. Our armer
have found that new land gives the best crops and this is due $t$ to the fact that such field
afford the mot potash gives but one hundred bushels to the acre, re Inure at least one hindred the tops to decay
of potash; ;hut by allowing the
upon the field, sixty founds are restored npon th
the soil
them.
Letter from Frayce.- We give sime ex
tracts from the corespondence. f the 1 owa


 well fill Graneries, then
finally Germany. Moot cropp promise wel
 rear, and, as elsewhere. the meat 'duestion
one of prowinence. Fall plowing:-Frencl farmers as sion as the corn is lificd, or even
when it is ranged in shocks hreak up the
stubse, either by a sk mitongh ar better a scarifiter. TThe advantazes of a \&hot fallow spront and conseequently to be destroyed bu subs quent tillage. The practice d es eget rid on
the wreds beyund doubt, to say nothing of the he weit the exposed soidderives from the at
moshtere. morphere.
Cory La
 the autumn-in fact the sncceeding crop shou'd be kept in view when tilling the corn in the
sumber, and an extra cultivation given quite late, in order to destroy weeds to as great an
extent as possible ; for the weeds which ripen Thi i innual seeds, or strengthen their per
emin licots after mid-summer, are great pest
Bu the grain crop the folluwing year
oi the grain crop the following year. Bu
R the crop if the field, pretaration for suface with the plow and harrow, to be followed by thexing. This fall plonghing
 done, it would prove lighly benencial,
en fit wo multhis better ameliorate the sub Tus: Purk avy Cory Crop.-It is the crop this year will he 25 per cent. greater tha ind advices flom various parts of the countr the Wi that one of the largest ever raise fit over from last year, will keep the price Packers seem to think that they nunst buy at husiness. In some portions of the country here is a scarcily of hogs to consume the con, ve keeping up in chicago to $\$ 5.00$ yet.- Iour" Tus Porato Disease.-Dr. Kuhm hay
The dicase (Botrytris, or Perenospora infestons) only propagates itself while the potalo plant is infection from the haulon or stems, and one potato cannot communicate the disease to Curis
$y^{4}$ :-"To one gallon of water add one and a
 oo any quantity desired. Let these be boiled.
ogether until all the dirt from the sugar rises
or the inta at tob to to col and when cold pour it over
int
your l,eef or pork, to remain the uaual time tay four or five wecks. The meat must be weli
covered with pick e, and should not be put
inwn for at leatt two days after killing during
 arface bloot, ete., leavink the meat freeh and
cleant Some omit boiling the picke, and find
it
it onswer well; though the operation of boiling purifies the pickle by thrpwing oft the
dirt alway to be found in aalt and sugar. It this receipe is is phoperly tried in will never bo
bandoned. There is none that surpasa it, if

TVanir--plr.- For the last fifteen yeara, on ton of linte per acre. Ao, soon as the planth a, pear, the lime is pread from a cart over the
young plantu in the rowe. In hot neasons the plants plants had the row. In hot seasons the
pough usage from their tormen.
 young plants will yush throogh the coat
lime and pesent abeatiful green inine on tho
white surface. The lime mut be put on dry and on a warm or hot and dry day put or if iny
dew or moisture be on the plants they will b dew or moisture be on the ppants they wis put
d stroyed. The lime mut be ready to be put
on the moment the mi chief begins, for in the Wenty-four hours of a hot season the fy chot
ruin lany crop; it of no ue then goivg fol
the lime.-Mr. Bainbridge, of Ouston Hall
$\qquad$
Carrots are recommendod as feed for farm
 a liheral a lowanco, anythiog over that bein
att to affect the kidneymand anduce exceasive apt to aff
staleig.
Protir
 150 graina, or 8,250 grains in all. A pretty
and varicty.
In Es.
rung oak and other growing timber planted


Roselli, Rice tells the Ohio Farmer that it
a great help in dog daym to atd a gallou of

Resolutions.-The man who will not xecute his resolutions when they are fres hon him, can have no hope from the aterwards, they wh be dissipated, tos and stifled in the hurry-scurry of in world, or
dolence.

## Stock and 思aity．

sherp for combing wool． Under the above head I noticed in the
Uural Nero Yorker sometime since the ques Rural Nerc Yorker some time since the ques－
tion was asked by J．W．H．，Pickville，Tenn．， what is the best cross or kind for growing good kind of combing wool；and whether suct
sheep will thrive in large flucks Seeing no sheep will thrive in large tlucks Seeing no venture，in a very brief way，to give opinion in regard to the above questions．
In the first place，had I the old－fashione Dutch sheep，Cheviot，or any of the ordinary Darch sheep，and wished to raise lambs for market，I should cross them with a pure－bred
Leicester ram．I believe that cross not only Lives you larger lambs than you can ntherwis． gives you larger fatten at an earier age；and should a person，wish to raise a flick fro
this cross he would get a good quality of com ing wool；for if your ram is pure bred，his get will most of them be sinilar to hinself；but
the next cross would quite likely take back on 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 de．
sirable flock．For the above reason I should sirable flock．For the above reason I should
prefer the pure－bred Leicesters．I have kept prefer the pure－bred Leicesters．I have kept
a few of then for a few years，and $I$ know that thay are easy keepers－very quiet in their habits，which enables them to take（n）
fat rapidly，while a wild，shy breed would keep fat rapidly，while a wild，shy breed would keep
more lean；and I do not hesitate to say that fur be wuty and symmetry they are not surpassed by any breed．They sthe same keep；their wool is long，with a beautiful lustre，and a great deal finer and softer，and will commanid
fifteen to twenty cents more per pound． fifteen to twenty cents more per pound．
I cannot speak of them as mutton sh from experience，never laving batchered any； from it is claimed that they will dress frum，
thirty to fifty pounds the quarter at maturity， thirty to fifty pound
when well attened
In Dec．， 1869 I．．went to Canada and pur－
chascd a few of the Leicester sheep；while there chass a few of the Leicester sheep；while there，
there was a fair at Galt，and a drover naned there was a fair at Gait，and a drover naned Oliver was purchasing his chnistmas drove for
New York．saw four old ewes，ollder thai
Ihe wished to breed from，that he had the owner wished to breed from，that
fed up to the week before Christmas． put upon the seales their average weight was
295 pound：A friend told me that five or six three－year－old wethers had been weighed hefore 1 arrived，and their average weight was
325 bibs．；so you see that although they are small buned and short－legged，
sters when put upon the ccales．
sters whon put upon the scales．
In reply to the elquiry whether they will
thrive if kept in large flocks，I do not believe it makes as much difference in the size of the Hock as in the place where they are kept．
For instance，put 50 to 75 sheep of any breed For instance，put 50 to shee shap of why breed then from the storms of winter，and give
them plenty of air，and they will do beter， them plenty of than a small fluck of ten or
in my opinion，
fifteen shut up close，where they will be de． prived of pure air．Give any animal pure air and steady，wholesome food，and the number
will not natter much，in my opinion．When will not matter mand I noticed flocks of from twenty to
in Canada
sixty sixty sheep，and some persons had lar
the Leicester breed，and all looke 1 well． the Leicester breed，and allooke weell
s soould not，in my preference for the
Leicester，cmit mentioning the other two Leicester，cmit mentioning the other twe
combing breds－the Cotswolds and Lincoins They are similar to each other；both ar
coarser boned than the Leicester，and large require better care and feed，shear a tritt
more wool of a carser grade and inferior considered，are not as profitable sheep for the farmer as my favorite Leicesters． their wool is a trifle longer than the leiceste but I can see no need of that，for I pulled months old that measures twelve inches
length；if you hesitate to believe it，ask the length；if you hesitate to believe it，ask the
editor of the Rurell who las he sample
inentioned．－Horticilturist．

> cold water bad for cows. During the last summer in the hot days of
Jn＇y and August，the animals resorted to tho lake to drink，and atter slackitg and rema sometimes an hour or two with their loys half immersed．This habit，it was found，invari－
bly diminished the fluw of milk at night，and in order to learn the extent of the diminution， caretul observations were made．It was ascer－ minished the flow of milk to the amount of

The loss was so great that whenever they re
sorted to the water they were driven away the pasture again at once．We have learned that from situply turning the herd into the
yard upon a cold day in winter，and allowing them to r－main fifteen minutes，the flow o consequently the animals are not now allowed
oo leave the warm stable during the entire inter，except for a brief period upon warm
unshiny days．Water is brought directly rem a well into the barn，and drinking vessel to move but a step or two to supply their wants．The a nature of the water supply and
whe convenience of access are most importau
points in the management of milch cows． oints in tice management taken by a cow in winter cuts short the milk yield tor the day
winn to two pints．－．Iournal of Cheminstry
the supplieg of stock．
In 1868 and subsequent very dry years，the
scarcity of grass and other stock－tet，obliged the breeders tos sacrifice their stock at ruinou prices，haraging the breeding of sto k．It is to be
cour
hoped and expected that the present very hoped and expected that the present very
high prices of lean and fat stock win，reatly stimulate increased stock－breeding．＇The in
crease of population and industrial prospe：ity crease of population and industrial prospeity
cause a greater demand for animal food，and a consequent rise in price．I do not think come．I have always had a：1 opinion that we
do not，as farmers，make meat enough，and it is evident that with so vast an extent o
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 pastures．An ample and more certain supply
of stock food can be pr duced on arab＇land
by by growing winter and spring beans，clover，
winter tares，Italian rye－grass，mangle，turipip anfl cabbage，and winter oats all available
for animal consumpti $\cdot \mathrm{t}$ ．By the use of calk for animat consmmptin．© the use of cake
aud foreign corn，with cut straw，\＆c．，much
mest may be made．All this requires a great－ meat may be made．Alt this requires a
er acreable capital ina is generally inv
－．J．J．Mpechi in Markhamem E．rprys．
sollin：stock．
This business of soiling involves extra labor， mone general adoption．But to brings ample
compensation，for it diminishes the area land needed to produce the same crops and support the same stock，thus diminishing the
first and permanent investinent，which is often first and permanentinvestinent，whinost wholly
as many farms are managed，allo
noremnunerative．It the investuent in land is lestremmerative．If the investuent in labor can be greater，the culture
given given better，fertilizers insed miore freely，and
the prefits nore certain，becaunse these three
elements in agriculture dininish the elements in agriculture diminish the clances
o failure always．Again，it is enough to put a man in a shonting mood to see work－
horses turned out into pastures that will not afford a gord meal per acre for once a week，
even if he forages over the whole acre even if he forages over the wole acre．flyink
of keering a horse in such a place in a ty and mosquito time，and then expect him to do a
good day＇s work begides ：But this is scareely more barbarous and unp rofitable than keeping
cows in the dry pastures of clay till－sides，as many do，without a bite of green forage or
the shelter of a stable－often not a tree－from the lst of July to the 1st of Octol er．－$E^{\prime \prime}$ ．
water for sheep．
It is believed by some that water，as a No one conld make a greater mistake than to
believe the idea stated above．If sheen 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 as summer，should be regarded as indispencable
for the welfare of our flock．Every flock－ master is aware of the cilference there wil
be in the cendition of slicep that have，and and of those that have not，been watered
during a winter；although the latter may seen to be in fair condition．they are not in as good
condition as they would have been had they condition as they
been watercd daily．
hice or ratyee andi colts．
A correspondent from Nashwaaksis hands
us the following simple method，long used in us the following simple method，（ong weed in
that locality，for killing gice on cattele：－Make
a scrong brine with conmon salt，and apply it two or brree times，rubbing in well with a hrush．
Scurvy on cattle can be successfully treated
by the application of fresh ho
affected parts，previously washed clean wit

soap and water．－Colonist Faimer． | IT |
| :---: | IT Is said that sweet or s sur milk will

sweeten frnzen butter much better than sal or saltpetre ；there is nothing which absorbs whatever is offensive to the smelt or taste so quickly as mi k ，cream or butter，and no
agent can be employed that will so quickly or agent can be employed that will so quickiy or
surely extract the flaver of the wood from
new new dairy utensils．
The Willamette Farmer，of Oregon，learns dy 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 where they keep a hundred cows，has already
lost thirty，and the same state of things exists all around them．
BY feedina chopped straw，oats and rape－
seed，thoroushly cooked by steam，and raw seed，thorou，hhly cooked by steam，and raw
Swedish turnips，one of the largest dairies in England increased the yield of milk from 553合 70 gallons per cow per annum．
A wrimer in the American Agriculturist ays he has found his cows will always let
aown their milk when inclined to hold it up he gives them some salt to lick．

## sales of Thorough－Bred Stock．

## The report of the committee appointed by

 The report of the conmittee appointed by Scotia to make purchases of thorough－bredmock，will possess iuterest for our agricultural eaters． Thmmittee report：：－＂At Hamilton Oat．，there was a very extensive exhibition o
ive stock，the largest that has ever been he＇d ive Canada．There we purchassd two powerfu English draught horses，＂＂Marquis of Lorne＂ nd＂Net ierly，Junior．＂
－urchases of animals of perfectly pure bion were made：－General Grant，roan， $3 \frac{3}{2}$ years old Lord York，roan， 4 years and 8 months old，a
splendid animal imported froni England，and splendid animal imported froin Engand，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 pail to Captain Gunter one thou－ sand guineas when a heifer scarcely a year old Mara Duke，a year and Stamberry by Prince
George，a yearling from Straw
Louis；Euke of Greenwood，a year and a half old，bred by Birrell \＆Johnston from Young
Dumpty，by B：Il Duke of Markham（the Corn Dumpty，by B：IL Duke of Markham（the Corn
wallis Bull）；Oliver Twist，of the same age， rom Kentucky Jane，by the same sire．There are also two Sho t－horn calves．one named sh
Roger Tichborne，bred by Mr．S．Beatie，from
Graceful hy Cilton Duke th．Second；the tracerul by Clitton Duke the Second；the
ther，Wiliam，bred by Mr．Aitchison，of Guelph，from I sabella，from His Majesty．
We have succeeded in securing from Messrs Aitchison Rudd and Guy，a splendid herd or tho ouyhbred Devon cattle，consisting of eight
males and six f males，lhree of the latter in calt The following Ayrshire cattle have been purchased：－Lord Lisgar， $2 t$ years old，bre 1 by
Mr．Crawford，Montreal，fiom Paley，by Lord Catlibert ；Lord Raglan，of the same age，br
by Mr．Morton，of Morton，from Maggie，b Carrick Farmer；Independence，a yearling
bull，bred by Mr．Guy from Flora，by Lion Dumed．The Ayrshire cows and heifers are Fiftie the Second，from Ettie，by Jack Fiora，likely to calve about the time of the
sale ；Iilly and Cinderella the Second，both In addition to the above，we have purchased，
from some of the best flicks to be found in Ontario，twenty rams and ewes of the Cots－ Ontario，twenty rams and es ane Shropshire
wold and Leicester breed，one
rum，two Shropslire ram lambs，one South－ ram，two Shropshire ram lambs，one South－
duwn ram，one yearling Southdown ewe，and two Southdown ewe lambs
The following is an analysis of the purchases
made ：－ Horses． Shorthorn
Devons．
Ayrshires Ayrshires
Long－woo
Long－woolled Shee
2
.8
.14
10
.20
.8
$\overline{62}$
The sale of Shropshire rams，ewes and Moor Barns，near Atherstone，Warwickshire， took place last month．And
petition they were all sold off at remarkably
good prices，the average being $£ 17$ 13s． 6 d ． good prices，the average being £17 13s． 6 d．
Anomn the highest pr ced lots were a pair of he Reflection and Perrection pedigree，which
old to Mr．Rose for 33 guineas．Another lot old to Mr ．Rose for 33 guineas．Another lot
y Reflection and Mona：ch went to Mr．Ben－ nett for 35 guineas；while the same gentleman ecured the shearling ram Chance for a sinilar
egure．Two other lots sold for 30 guineas and igure．Two other lots sold for 30 guineas and
33 guineas respectively，and oth－rs were dis－ posed of at 20 ard 15 guineas．The lettings
were Charley to Mr．Lightfoot for 17 guineas Valentine，to Mr．Marstun，at 25 guineas Rocket，to Mr．Atki，for 15 guineas，an
F ash，to Mr．Princiss，for 15 guineas． ash，to Mr．Princiss，for 15 guineas．

A sale of short－horned cattle and Cotswold and Leicester sheep took place on the falm 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 bruught $\$ 2.765$ ，being an average of nearly $\$ 251$ ．－ The sheep averaged nearly $\$ 10$ each．Most Mr．Hyde，of Ohio，taking fifteen cattle．One
Mre buil．＂Knight of，St．George，＂was sold for
$\$ 1,235$ ．to Mr．Rust，of Chicago．Two heifers went to Ohio at $\$ 675$ each．Several animals
were sold to buyers from Illinois，Iowa，and Nebraska．
the Pak sale of short－her． In the Irish Farmerg＇Gazette of the 14th
ult．，we find the report of the sale of the chief part of Earl Dunmore＇s herd of Shorthorns．
$-T o$ thase 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 ine commend this report．Fifty－four animals ine zing an average price of more than one thous－ and dollars per head，being the highest average
on record．Anong the list of purchasers we on record．Among the list of purchasers we
do not recogniza the names of any Americans， although it it not improbable that Mr．Coch－ rane and others may have had authorized gents there to pick up
of this celebrated herd．

Messrs．Hunter，of Pilkington，sold to Mr． Messrs．Hunter，of Pilkington，sold to Mr．
G．Miller，of Markham，for 8600 ，at the
Guelph Show，their prize bull，＂Oxford duelph Show，their prize bull，
Duke，＂the winner of first prize and diploma t London，and also at Guelph，last year．He also gained the first prize at Hamilton this
year amongst the three year olds．The same year amongst the three year olds．The same
parties also sold to Mr．P．Rennie，of Gara－ raxa，for $\$ 200$ ，their two year old grade heifer， which has stood first of her class wherever
whown．Their entire horse，＂Marquis of shown．＂Their entire horse，＂Marquis of
Lorne，＂has also been sold to the Cornnittee appointed by the Government of Nova Scotia， o select stack in Ontario
The price realized was $\$ 600$ ．
bheep gales and hettings．
Among the sheep sales and lettings of the season in England，we particularly notice that
of Mr．Ri dound Southdown，at Hove．The prices made were unu：ually high， 100 ewe aving been so $£ 344-$ an 10 s，say $\$ 107.50$ each．Ten rams were also let revizizg $\pm 310$ in the aggregate－the highest
rice mide being 90 guineas！Mr．Kirkham， rice mide being 90 guineas！Mr．Kirkham，
 52 ra ns of other age were offered，and the
average per head on the whole 120 was $£ 25$
年 is．，a very high figure for 8 la
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．－ quite a number of entries of first－class breed ris，and Mr．Sproat，of Seaforth，bought th him 31 for $\$ 200$ ．
Messrs．Long and Thompson＇s sale，which
took place near St．Mary＇s．was well attended took place near St．Mary＇s，was well attended
by buyers．Bulls realized from $\$ 350$ to $\$ 400$ ； cows，$\$ 375$ to $\$ 330$ One grade heifer，two years old．sold at $\$ 115$ ．
between $\$ 4,000$ and $\$ 5000$ ．
A sale of imported draught horses and short－horned cattle took place．Oct．3rd，at
he 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 sum of $\$ 13$
at Bew Park，


## FARMEER'S ADVOCATHE

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 sali.e. animals shown at thi
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 The sales realisee
druaght horeses and
 n. G. Brown realize

## 梁活orticultural.




Winter gardens in our rooms.
From Arthr's Home Magazine we conlense H aninging basketstare the most gracef ornaments that can be used in making a winter fower garden. They may be hung
rion the
and
 on the wafl may
the sume kind ot peadant foliage, and ivy may be trained over mantels and picture frames.
 hyacintht gass, and treatell the same asa
hyacinth
bulb, will send out lount delicate
 ame time a beatitiful and gracefefly vine will sloot from the top and may be trainel

 Where they can obtain bothiligh and hade and dried Inosses gathicred in July. You and make out of them a perfect bover either ove the mantel or in a cornerand tarked to the wall, the topp of each auccesivive row of ferns hidingt the paper and the fastening of those immel itately above nuww it he time to otatur bouquets
 renewed once a weok during the season


 colorsin in all theier brilliancy. ulieet for purlor decoration. Itss leaves subject for parlor the most brilliant tints, and its clusters of purple-black berries are very
creal berries will retain their graceful. Oak berries will retain their
color and form longer than anything else, color and form longer than any foliage can
and their red, green and bronze for be arranged in a variety of ornamental forms over the tops of
casese and picture frames:
hints about rlowers

 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 mak spring water even more stimulatiug to your plants than rain water. Is 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 exChicken manure dissolved in water is ex-
cellent. cellent. Always keep the soil in your
flower-pots loose. A common hair-pin flower-pots loose. A common hair-ply
used daily will stir the earth sufficiently
-Boston Journal of Ohemistry.
(G)rchard and dorest.
the concord graphs. Ul jections are frequently made to the Con-
cord grape on account of its acidity. It is very eissiy accullowed to grow up,$a$ the vines.
nuct fruit is allowed llie ideat sometimes advanced, that the vine ir frut should not be pruned at all, has been
proved mincorrect by the experience of the most practical vine-dressers. This variety has been practical wine-dressers. grape, and its superior
tully tested as a talle erronstrated. If it is
werits have been demonstrates. properly cultuvated, it is best for general culpropery cuakes the lead in vigor and adapta-
ture, and taks oility of any that is now grown
air in this stctiun of the country. Vines that have been planted four years
and are piffectly healthy and vigorous, will, if rightifully pruned, bear from forty to wiil ty
bunches of grapes annually. One-half of the clusters should be removed soon after the rruit sets. By this method the fruit will ripen
soue two or three weeks in advance of vines solue two or three weeks in advance or vines
upon which all of it is allowed to grow. Older vines will produce like results under the same
timprove the flavor of the fruit, place it on earthenware in a well ventiated celiar fur several weeks. By this means then have more of the saccharine matter
thit which is a most desirable quality in fine fruit. grown in this manner with a fair prospect of profit to those who cultivate it for the market
as its value would be as its value would be greatly inclined to pay a
tair price for choice fruit ry that of an inferior quality Here then is one important requirement to
grow firet-

## phentipulages or pruit

 The orchards of Canada are teeming with ance in the markets and, as a consequenc they are sold at very pros. some of oun considerable quantities to England. The ruit crop there has been almost a failure froin he cold Spring. Notwithstanding the abuna ready sale; and though it brings a low price -very low if of an inferior quality-good fruil ready market and generally pay the producer well for lis outlay and labor. When planting an orchard it is essential to future profit to to be procured. We give from the pagen of of Country Genileman a ruilt growers cellent satisfaction and ripen in succession: -"The trees are very hardy, good growers; In 100 trees the following proportions will be found nearly ${ }^{\text {right:- }}$-6 Primate, 10 RedAstrachan, 10 Lowel, or Tallow Pippin, 6 Golden'sweet, 5 Hawley, 6 Twentyounce,
Poundsweet, 10 Baldwh, 10 Greening, 10 Northern Spy, 10 Roxbury Russot.; While in this list we meet some well known tavorites, we also miss some hat we nould be
sorry to see omitted from our Canadian Borry
orchards; among others, the Fameuse, or Snow apple, the Duchess of Oldenburgh, the Alex
ander, the Winesap, and some of the Pippinu ander, the Winesap, and some of the Pippinh
and Russets not iocluded in this list. It will. and Russets not included in this list. It will
however, be a help to a person about to plan an orchard.
Oi the Pr Oi the Primate Apple, a writer in the eame
journal writes as follows:-" "As an early fruit this variety ranks the best where most known
It does not crack and hlotch like Early Har vest-is always of good size, large, very hand some, and of superior quality. Tree, astron,
grower, with very stout new wood, alway, hardy and healthy, and producing good crops annually. The fruit continues to ripen
gradually, as desired for use, from lst of Aug cradual y, as desired for
till middle of September.
potash ror peach trebs. At a recent meeting of the Cincinnati Hortie had a peach orchard of $t$ wenty-five acres, the soil of which was poor, and was manured
with potash only. One barrel, costing 335 , 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 not quite come to the surface, and then ap-
plied two quarts of this liquid close around

(bood 箴ealty.
LOcation of houses.
Houses should be built on upland ground with expogure to sunlight on every
side. $\mathbf{j}$ uring eidemices, it has been noted by physicians that deaths occur much less
 thana on the shady sidide and in hospitals, physieians have testified to the readine, 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, the cellars be thoroughly drained. Inattention 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 sleepins iu while their innocent babes are sleeping in Cellars should not only be drained, but thoroughly ventilated, otherwise the house must be unwholesome. Let the drains
also he 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 purand dry, composed largely of greensward on which children may romp and play Th which children may romp and phay. Nature and of Nature's God, as it filteıs
down through the blue sky, may fan their rown through the blue sky, may fan their rosy cheeks, and fill their souls witth joy
and their bodies with health. If beautiul and useful flowers and plants can be cultured, they will add to the attractiveness of the place, and help to cultivate a kindy spirit a
Health.
aleeplessyess and the remed).
The best anodyne is a liberal amount o 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 inupssible 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. Rectivities, many persons resort to medicine, and every ne: drug which is heralded as a promoter of sleep hecomes at once immensely popular, even though it is known to possess dana great run, and even young men are known to be purchasing it at the drug stores, to be used in promoting sleep; it the family physician, for the medical journals are constantly publishing cases where serious harm and even fatal results atten its habitual use.-.Jour,","
gtagnant water brunk by co
tive of typioid hever
Of 140 families supplied with milk from dairy in Islington, England, seventy suffiered
from typhoid fever. Une hundred and sixlyeight individual cases occurred within ten showed that the cows drank water from an old underground tank, built of wood, and much same water, and in all probability the water attacked only such parties in that district as
used the milk, the water in the rotten tank used the be been the cause. This is only one more evidence of the danger of using foui water, and giving it to animals.
shown that stagnant water acts as a slow poison to animals as well as men; and it is a and only pure fresh water.-. Moore's Rurcitl New Yorker.
A Correspondent of The Builder years to examine rooms occupied by young women for manufacturing purposes, ans in
one room would be very cheerful and
healthy, the occupants of a similar room, $\begin{aligned} & \text { struck him, he had the yellow ochre } \\ & \text { washed }\end{aligned}$ who were employed on the same kind of At once an improvement took place in the business, were all inclined to be melan- health and spirits of the occupants. 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 the melancholy workers was covered with
yellow ochre. As soon as the difference


EXPOSITION BUILDING AND GROUNDS AT CORDOVA,

The above cut is kindly lent to us by in South America, judging from the above excellent a fricultural from which we occasionally make extracts. agricultural grounds. It is with that view We, or some of us in this part of Ontario, we insert it. We expect some of our Caare ant to think we are far in advance of nadian breeders stock may some day gain many parts of the new worl in rather are not aware of any having been sent ture. We must confess we are rather
astonished to find them so far advanced
as yet
© C ntomplogy.

## ${ }^{3 \mathrm{y}}$ Prof. c. e. besser, of io

Every very Tove fedio of her prod intions
 $o$ one or more of these piratical little animals.
Prof. kiley, in his Third Annual Report und Prof. Kiley, in his Third Annual Report upo
the Noxious Insects of Miss uri, makes men-
ion of thiry uion of thirty-seven different insects which in
iest the apple tree aloue, while some Englis iest the apple tree aloue while some English
encomologists estimate that in Englanı every
affereut species of plonts has differeut species of plants has on an averay
six different species of insects. The loss annuially in the whol is stated to be three hundrot millions of dol.
lars, and I have 1o doubt the statemen
rath r below the
 enor nots sum be applied to the payment of
nur Nati ,ual Dbt, in ten yeirs all would be pai , principal and interest; y yet year by year
we pay tribute, and have as yet made buit litte Vite n necessity. In our own Stite next to noth.
ins hay ben done iik hay been done, a committee or two ap-
pointed by on Agricultural and Horticultural
Sucieties constitu es the whole force now musSounted by our Agricultural and Horticulturil
Soceieties by onstitu es the whole force now nus-
towa to protest against paying ten tered by lowa to protest ayainst paying ten
millions a year for the support of a hugry
hrde of insects. is this nisdom? Is this so
hive
 ing certain noxious weeds to grow and send
theter sedd from farm to farm, ant yet so far as
I know nothing has $b$ er don to growth nothd spread has $b$ en done to prevent the
ghich are worse to eradicate and of in insets
whis Which are worse to eradicate and mind
injurious than even the Canada Thisule
How siall we best
 arculio when our potatoes disaptureare of theor
a, army of Potato Beetles, or when the Grass.
hophers or mee
 We plant, we give anxious care and hard labor
thut our pla, ting may come full fruition;
but the worm comes in for tis share firit-too Wten it is a " lion's share,", and chooses the
best and finest for his eatino.
I he worm, the bug, the beetle, the fly, the
 escape from them? There is no way but to set
to work and ntuly theen until we know them-
know nit only their appearance, but their know nit only their appearance, but their
hatist, thecir hiding place their weakest mo-
ments, their most vunurer bie pointson of attack.
Wee must do with these enemies as we would do in case of larigr, these enemied ous as we would
first find out how to attack bert, wall then
make an attack all along the line. Wee must make an attack all along the line. fire must
all rouse ourselves and go into the fifht ener-
geticaly and understandingly. - Iova Home.
stecil Deserving notice, are the second.lrood cater-
pillars of the fali wel worm,


 green thing. They prit duce a wh te moth, the
male measuring about an inch. the remal 1 it
inches. 11 h y pass the winter in the pupa state. The handmad moth (Datana minis ra).
The cat rpillar of this month can be found The cat rpillar of this month cau be found
in alm st any orchard of y un trees; its pre
sence on the trees is tasity detected by the

 Pupate in the ground and winter as pups
moths: ivue in July, and are also found on
oalk, haz. 1 and black walnut. the american procits ( $l$
A shor, thick, yellow caterpillar, sli ghtly
hairs w,th black dots, is a gregarions worm 20 ty 30 occupying one singie leaf, which they
only leave when full Only leave when full-groun, and they a.e for
this reason easily d stroyed by picking off th
infested leaves. niested eaves; it produces a sma' 1 black mot
with an orange colvered moth which issues i
Tuly ful July following. In ISouthern latitudes there
are two hroods, and the fir brou bo tater
 foliage is
and fruit.
(w. We issue a Supp'ement this no in $h$ con Prizs given at the Proviucial Exhi itit. n.-
There may be a few inarcuracies, but it i\& correct as we have been able to procure it. W Were promised a revised or corrected list from
the Secretary, but it has not yet come to hand

FARMER'S ADVOCATE.
 Hortive inectases









 cand
and
chat
duse hed thects Thin




 tiraces.


## 

Unithininoter faterer








## 






During the past few weels several hirses
 tury organs, but nithins was thoughit of the
trouble um il willin the last few days, siuce
which time the die ease has attacked hundreds


 of the ext emities. fter a shurt time a 18 .
charge in matter fon the nose ocur . When
the animal is exposed to nuy vitiating influe co









The Parrot Tulip. We spoke of the handsome flowers of
this variety that we had seec, in our last land, and expect them in a few days.where you wish thent to grow, some time this autumn; cover the ground
with a few leaves, rough manure,
straw or tan-bark. They will theu traw or tan-bark. They will then
top and be ready to shoot up as soon
If spring opens. If you admire flow as spring opens. If you admire flow-
ers as much as we du, you will be ers as much as we d", you will be
hivhly pleased with the bright and highly pleased this variety.
$\nabla$ ried colors of
Little girls and hoys, go and ask your neighburs to take the Anvoc. yet a prize, and, if you surceed, you will
soon be able to give them a bulb and ornament their yardens. Your fathers decorate the garden in this way, and decorate the garden in this way, and
may help you. If you obtain one new
sulscriber you will have two bulbs may help you. will have two bulbs
subscriber you you must mention that you
sent you; you are tryiug to get up a ching clubs, and $\operatorname{try}$ aud get one

Octerinary
DISTEMPER in HORSES.
The treatment of this diseane consists
placing the animal whiere it can breathe fres placing the animal where it can breathe fres
air, and be without restraint. A loose box the best place to ketp it in. A mild purge will
naually benefit the animal. Cape alues three
drachms; extract of gentian. three drachm
 This should lie followed "pp by the foriowing
Nitrate of potassa, two ounces ; carbonate
ammonia, one onnce solution of the actate

 may be continued, and mustard pultices be
apylied to the cliest. A good bedding shoulld
be under lime, and a pail of food whitened water or thin grei phacelie very day, a though
lastshould be changed twice
it be not touched. Sil nce should be raaintained as much as possible near to and alowit the
animal prostrated by this diss rder. Distemprr

 then a few cruthed and scalted oats may pie
allowed, and at ayy time give any kind on pro-
ve der. rather than the hirse shuld consinie $\mathrm{h}_{\mathrm{s}}$ bed. G od, wioless me, stimulating food is, a quart of good porter, moring and evenin
will soon leave the horse none the worse

$\overline{\text { with fairy-like ferms among flem, tornu }}$

 are the tladivi, while the boxes of
fi werv, the bouptets and $f$ ral designs a




 lieathtr. woodhine, and the ne'er-to-be-forgot-
ten cowslip. primrose and daisy, wiliee bouquets of cut flowers placed in front add wuch
lo the effiect by ih ir giowing beauty. The display of frut is very linited; a few
crapes, cpen air as we 1 as ho -houve grow ho

 ennuth to mike one tun vigetarian? See
those Nurphies, enought, make an Irishnan
blush fur his coutry and cufess it heaten:
 citron + ; egy plaute, pu'ple and white; $c \mathrm{crn}$ rn,
of various kinds. sound tomatoes and fragrant celery ; ; cabbagage,
eound and hard enough to make you declare
caterpillers a myth; cucumbers, to detight an
epicure, fiathery Scoth kale, carrots and
blushing b ets ; saucy luoking peppers in
cit us "the potatoes had so far escaped the attacks

 try; God bless Canada our Houme, our bonnie
New Duminuon!" lf equal prospenty Newn cur future efforts in the coning years,
cruw shall indeed have no cause to complain.
we In the meantme, wishing both you and your readers every happiness and suicerss. believe
nee, yours tru y,
AUNT PATTY. ["Aunt Party" has our heartiest thanks for her kint remenimbatice of us, alld her mistest ny epi. the from the great metri polis. "Aun
Paty $!$ "-huw wrolt a name fur hiis to aspume
t. Uucle T thicusends som, readers. We know he he is a great hhrusands f feaders. We We.
favourite with some.-ED.]
interesting commaniotion
province of QUEbec.
Sir-I am yet rambining in Liwer Canada.
and through tue protieit and moit romanac art I have yet seen. Here ule masinticic nt
 most enchanting description, and thust be seen to be appreciated. One thutg I give the Lover
canadians rud dit fur, and that is, the very pretty mann,er in which they get "p and finish
their villages and farm housed. Take the lattheir villages and farm housed The the at
 section of c untry, consen pently peop.e devote
their attention to cows. The dai tes he e ate
 guilg altove eher into che se-making, others to
butter; but it is grearaly thought hie oorne butcr, the marst money, but then this is coun
naracted by the luss of the milk fur the calve. and higs. They consider 20 cents a ound
here for butter by the tub to be an oidiary here. It has been an exceedingly wet sinut p ier throuhout this sectim, rainug from two
min thre days a week on an average, so that
$t$, it has been very troutle ome tid save the
luxuri metand he hy hay croi; but, upoath
wiule, it is pretty well secured, and is wort
 raised liere, and there is quine a quantuity on
 good crip. The shing has commenced, an
turus sut well--so they tell me. Wheat, lictl I am sorry to say that the potatoes are rot ing bady with the wet; ; they were allo a
heay $y$ crop. What with the failure of the ee
 a hi, sh, price and a scarcity this winter of th
ons of the most nseful riots to ma kind.
res Was pleased to get an Advocate or two, an
I will mak a fenlik about one thing I saiv in last mon'h's paper, relative to using arsen
for the de:truction of the Potato Bu\%; let advise yur readers by no means to do oo.
cume from a part of E "gland where tens thousand of tons are raised dannually from th
Be it rementhered, that this is
$\qquad$
$\qquad$ the fly; in the winter several of his cattle died
arhe mysteriously he had their stomachs at
 A word low for the Avvocate. The post-
masters Whasters note tell would find never geores would take it
where. Wake wo a little in this section, send
her soume handbillst, the post office, as there is a
wealthy class .ff weathy class,
many of whom I am sure would take it.
Yours truly,
RMBI.ER. Bedford District, P. Q., Sept. 1×, 1872 "We thank our kind correspondent "Rum testimony to the great danger at endant on
the use of arcenic contiums the infornation given in a previnus number of the ADvocate
We are glad $t$. have to say the value of an We are glad tave has say the vilue on an
azr cultural paper in inceaxin, fly felt by the
farmers. Repeatedy they tell us that we have done more tor the agricultural interest in
Cana la than any other institution- more than
the Government. Our ctnstantly increasin fa mers hold the ADVocate. We regret the last letter from "Rambler
caine to hand too late for insertion. He tol

SIR,-Will you oblige me by answering the followiny yuestions?- What quaztiting of
corn does it take to put on luo lbs. of corn does it take to put en
purk, under favorable circumstances? How much if ground and steepeu? How much it gromua and cooked? How many
bushels ot tumps to put on 100 lbs. of bushels ot tumps to put on 100 lbs of
beet? What is the cost per bushel aud per car load for corn irom Cnicago to London or Torroutol. Will it pay un Cauada to feed a quantity of hoxs, especially
where a large darry is kept'? I have where by actual experment that it take 7 bushels of peas to put 100 liss. of purk ou a good thriving hog, but the ditficulty
1 have expervenced is this: the price of 1ate may rise to 65 or 75 cts. in the tall or winter, and then 1 feed my own poas at a loss, and find it ditficult to buy the quantity 1 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 ltse of pork, under tavorable
circumstances? In reply to this query from "A Subscriber," we must premise
that the tigures we give may nut be quite prest reserdo the hogs he propeses to feed. In teeding stuck of any kind so much depends on circumstances other than the tood given, that the result of one
feeder's experience may differ very much irom that of innther. The condition of the rtock when put up for fattenink should he taken into accomit. Nur is this all.-
a good house, good bedding and cleauliuess are to recelve due attention in the rattening even of hous. The quality of the corn or other food to be givin, and Whether it he given whime or groumd,
cooked or uncooked, are to be tahen into account. Aud there 1s yet another cousideration as to the hogs - What is their
breed? Berkshire or what? Some bre eds of hogs will put up more pork in a given
time and with the same quantity of fo d han others. A writer in the Rural New Yo, ker says one acre, if seeded with clo-
ver, will leed and keep in wood 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 :- "Coru meal sive condenseling water at night for the next day's use, made in one instance $16 \frac{6}{3}$ lbs. of pork to the bushel of corn; in an other instance 18 lbs. to the bishel. Mar corn, being a fraction less than 12 lbs. of pork to the bushel." Another authority says one bushe of corn will make 15 bs
of pork. We have met with other calcuations very differ-nt from those g, ven. An we kive in another column, says also tha fifteen pounds of pork are made from on
bushel of corn.-As.' ED.]

$$
\overline{O N O M Y}
$$

Sir,--Some time ago under the genera caption, "A Few Thoughts," I gave in the advocate a very few thoughts on Eco permission will now, with the Elitors sulject, which may be regarded as a supplement to cluste

$$
\begin{aligned}
& \text { mentioned series. } \\
& \text { mirst, then, it is not good economy fo }
\end{aligned}
$$ Garmers to butcher or sell to the butchers In the best of their lambs, and keep a few zood plan to let fhem ewase Nambs when only one year old; give the lambs one 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

FARMER'S ADVOCATE
ever number you wish-of the very best
for breeding. No matter what the butcher Yor oreading. No matere what the butcther the fook, that is, of the ewe lambs. Then, to keep your flock pf sheep from getting
too large, every year select from it as many too large, every year select from it as many lambs. In this way you will always have
a mood flock of sheep. I have seen both a good flock of sheee. I have seen both
plans tried othe tormer-the wrons oneplans tried, the former-the wrong oneby a neighbor, and the later- - the right
plan -by my father, who is a first -rate, practical farmer (which is known to others as well
sheep.
The
sheep.
The same plan, though of course some What modifiell, slould be pu susued with reference to cattle e A framer should never allow his stock, given, or by belug so careful of a little time and labor or money as not to procure the best breds which can be obtained.-
No one need expect to succeed in farming, as far as stock-raising, \&co., is concerned, who does not make it his constant aim to improve lis breeds.
Again : it is bed, very bad economy, to
keep a horse for trotting or running keep a horse for trotting or running. A
"fast horse" is a curse to its owner $;$ grain, fast horse
time, maney, and many other thiugs as
mod gooo, as money, are squandered away where
there is a "last horse." They are a perthere is a " fast horse." They are a per-
fect nuisance in the country; no possible good can result from them. They are ouly evil and that continually. The practice
of keeping them caunot be too strongly of keeping
condemned.
Neithrr is it good economy to spend a great amount of time, money, grain, see,
in fitting up an animal for the tall Show at the expense of those left at home.
Feeding up oue or two to take to the Show, just for the sake of a prize of a few paltry dollars, whilst the rest suffer for tit, is a very foolshs thing, but is very ofteu done.
This is poor ecoulomy, or, more properly, This is poor ecouomy, or, more properly, Battersea, Oct. $7,1872$.
deep plovghing-improvement in agriculture.
SIR,- - am sorry in laving neglected so long to send my dollar for this year's AD
vocATE. It looks. too much like as if did not appreciate the paper, whereas 1 take pleasure in even anticipating its arri
val. I was just longing for sulch an article val. I was just longing for such an article
as appeared in the October No. on "Deep as appeared in the October No. on "Deep
Ploughing," treating the matter at some leugth, and satisfy iig me that soils in gen-
eral, and mine in pratticular, would yield eral, and mine in particuar, would y yiela

more from deep ploulging in the proper | more from deep plonghing in the proper |
| :--- |
| season. I believe many in Sunnidale have | seasoo. Ibem the neglect of ploughing in

sutfered fond that deep yloughing for win-
the the fall, and that deep pl
ter is the thiug wanted.
ter is the thiug wanted.
This Tow nilip is waking , up, having its
 1owing, in October, while there 18 a general
pressing towards steady industry in clear ingssad improving the farms, and lookiug
inso to the improvement of stock. Hor ses, sheep and pigs are receiving considerses, sheep and pron trom encevyrising parties particularly is this the case with liorses. As yet, however, though much taked
by a few there lacks the bringing in of good bull or two. I doubt not but some spirited farmer will ere long set us aun cxample in this, and tive as meanwhile the
benefit of his euterprize. benefit of his enterprize.
The Early Rose Pote
 of Earlies very well also. This fall mos: of the farmers have sown Treadwell
Wheat.
Alex. H HisLop. Whea P. S.-Crops were good this year here.
Hay is rising in. price ; $\$ 12$ offered for it in
 per bushel. Buss-plenty for nothiug, what will they be next year?
Stayner P. O., 11 th Oct., 1872 .
[This letter from our esteemed cerres-
pondent needs no comment. We shall pondways have great pleasure in beariug from bim. We hope our agricultural friend
tions, as a means of maintaining the char-
cter of the ADVOCATE as THE FARMER's PAPER.-ED.]
rolunge fall wheat.
Sir-In remiting to you the money for your
No. 1 Se tt wheat, I would ray, also, that like very much the Farmers advocate.
Every farmer should have the Advocate very one that has a house and garden shound have it. I take four papers, and I like the
ADvocate best. Several of my neighburs avocate best. Several of my neighbuurs
have read it, and they like itt. 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
the sulject ?
Yuurs, $\& c$.
John Howard.
Howick, Co. Huron, Sept. 14, 1872.
[We would not recommend rolling wheat in roun, a a angricultural paper, "Packing the
Soil," strongly recommending rolling crops Soil," strongly recommending rolling crops ;
but it is sprimg crups, not fall crops, that rolling serves. The severe frusts here would, we believe, be more likely to injure the fall sown wheat in the winter, if rolied; beside will
the rough clods mouldering in the sping will nurture and strengthen the tender wheat plants.-ED.]
armers' club
Sir,-I am about to start a Farmers' Cluu
nere. If you would send me a plan of organiz ing it-whether it requires a President. Secre tury, or how many ofticers are requisite
forril a Club-you would oblige yours truly,
$\because$ Berlin, Sept. 18, 1872
[It gives us pleasure to learn that there is a The clab will require a President, Secretary and Board of Directors. It would be w. 11 that they be elected aunualy by the members
the club. The meetings can be held noonthly in sone appointed place, and some agricultura sibject dischassea, notice of it having been can induce a few of the inteligent farmer in the vicinity to meet at a given place, and the club, and there is little doubt the roll of membership
to it.-Ev.]
recipe for sore shoulders on horses. Sir,-I now send you my simple cure which may be useful to many of your which may he useful to many of you and mix in 1 quart of salt; wash the sores three times a day and they will heal up quite sound, and the horse call be kept at
work during the whole time. H. Y.S. Work during the who
Gorrie, Oct., 1872.
[This remedy is very simple, and of its efficacy I had abundant proof, having seen
it applied for many such cases.-As'r. ED.]
opinions of our subscribers, Sir-I am leaving Quebec for Ottawa in
October. may be aiter that, so thave to withed whon I your valuable paper till I get settled, when
hope to be a subscriber again: Believe me
when 1 tell you that in my opinion it is the best paper in the Doninion to enlighten the
Henky Moss. St. Hoye, Province of Quebec.
emporium seed wieat.
SIR-We threshed the McCarling wheat 15 buitels of Luod clean wheat for the onehalf bushel supplied by your. It is considered
to be by far the best wl eat in the neighbourWyoming, Sept. 15, 1572.
cucumbers in evgland.
A correspondent of the Gardener's
Gonthly saw in Liverpool a new cucum ber, four feet six inches, from China, called the Soolyqua. The best cucumbers for forcing are the Marquis own ; the first
tishl Challenge and Blue Gown a fine fruit, straight as an arrow, two feet 1 ng greeu and crisp.



Canadian Progress. Post Ofgice, and Post Office Savings
Banks.-The general progress of the Dominion Ba shown very clearly y y the statistics of the
is
Post Office and the $\mathbb{E}$ avings Banks. We have Post Office and the ©avings Banks. We have
no dout the Post Ottice statistics for the pre-
sent year will present even a more faverable sent year will present even a more favirable
record than we had in 11771 In that year there
were nearly twelve millions of miles trave.led were nearly twelve millions of miles trave.le
in the Post OHfice service ; the deliiveries wer
upwards of twenty millions of letters and posta
 tered letters. The expenditure was $\$ 1,271.00$,
while the revenue was $1,07,767.77$, eaving
and balance against the P. P.O. department of $\$ 191$, ,
2338.83 The d ticiency is less than we wald
expect, when we take into account the distances expec, when we take into account the distances
otten travelled to remote and sparcely settled
districts. The transacti ns in the Money Orde
 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 $i$ i, the rumber of tepositors from their commencement, 18t of
Arri, 1868, to the date of the report, $J$ une 30 , 1872. At that time they amount-d to 21,059 ,
The balance then due depositors was $\$ 3,096,50.0$
91. The pr. portion of the depositors in Ontario

 Haebec, non, and Londow, In Hamilton, the
Haroportion of depcsitors to the population 1s
 S28. This relative proportion to the population
is a prety fuir index of the progesive pras-
isrity of those classes who are principally depositiors of comparartively small sums in the
Savings Banks connected with the Post avings Banks connected with the Post office.
We have no return of the deposits in Savings We have no return of the deposit
Banks other than those of the Post
have no doubt they are very large.
One Goon Ressle of the Railway.- The
Kingston and Pembroke Railroad is already producing int effect in the development of the
ich mineral country lying north of that city rich mineral country lying north of that city.
The township of Bedford is rich in iron ore, plumbago and lead. Two of the most prominen
iron mines are the Chaffey and H We, which,
ince the Kingston and Yembroke Railroad has become a a ertainty, have changed hands, havil,
beem purdesd by the National Iron Company ben purchased by the National Hon Company,
of Danville, Penn., who, under the superintend once of Mr Lewis B. Hyler, have already
erected workhops on the premises, and will
ermence mining immediately, with a strong commence mining immediately, with a strong
force of workmen, ntending to getr out
of and about $110,0,001$ tons per year, drawing this
ter's production o the propo ed line of railway anticipating the construction of that portion of
the line irom Kingston by next sprrint it will
he shipped to the United $S_{\text {ate }}$ ates via Kingston he shipped to the United S ates via Kingston.
The iron is considered ly Mr Mr Myler, whl is a
thorough practical man, to be the best in Onta

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 binether freitations and passenger thouses, with apart-
ments for the station master over the ticket
mince. The Aylmer, Freterickburg and Jarvi
 tion. All the buildings are to be finished b.
1)ecember 31st, and by that date it it expected
that the track will be completed to The rails are now laid as far east as Aylmer. TruT Cove Mrise.-The Enylish Mining Co
who lately purchased Tiit Cove copper mine, at

 He has just returned rom Tilt Cove, and
Hpeaks very favoraby of the mine. The works
are in excellent order, and the productiveness
af the mine os reat as ever. Tis every way of the mine as great as ever. It is every way
likely the sale w ill at orce be elosel, nid this,
company, having plenty of conptal will greatl. extend opreratins. Prof.
the mincent prospects of this country are ver ayorable. He consitprs that a me head mine
leinn at one end of the island and Tilt Cove
nine at the the mine at the opphsite, indicate that the metall
 ly favored in the location of immigrants. The
last ly favored in the location of immigrants, Th

Kincardineshire colony, of whose success we
entertain high hopes. The Harvey antertain high hopes. The Harvey settlers, the le, the Scandinavians, are all doing well for
he up river count ies and for thrmselves, and he up river counties and for themselves, and
he Kiucardineshire settlers may well be expect-
d to do the same. There are other counties d to do the same. There are other counbies,
owever, containing the choicest lands, fine
oivers rich forests, fishing and other privil, rivers, rich forests, fishing and other privil-ges,
in which immigrants could do equaly well, and in which immigrants could in migrants aneeded, to whic
in special attention of immigrants has the special at
been 1. irected.
Toronto and Nipissing Railwap.-We
delieve th. the rails have been laid to the present terminus of the road at Coboconk, and
the whole lhe may now be said to be open for
traffic. The energy of the directors in traffic. The energy of the directors in thus puxhing the work on to completion is deserving
of great paise Under the uble management
of Mm . ( tooderham, jun., Managing Director, of M. (tooderham, jun., Managing Director,
the road has already achieved a success which the road has already achieved a auceess whiner.
most roast can only attan after years of per.
sistent effor. It it now ranked nmongst the
hest manased and best paying Railways in the best manased and best paying Railways in the
Dominion we observe that the Compay
have lately added a number of box cars capable have lately added a number of box cars capable
of carrying double the quantity of fright of
ohe of carrying double the quantity of fright on-
the first on the line. These will ea a graateon-
venience, especially to the shippers of grain. venience, especially to the shippers of grain.
REvENEF AND Expendrure or THE Do. revenue and expenditure of the Dominion o
cevan
Canad revenue nin
Canada for
$1872:=$
Kevenue.
Chstoms. Kikenue.
Customs...
Excise Excise.....
Post Office.
Public Work
 Bill Stamps.
Miscellaneous $\begin{array}{r}116,388 \\ 22 \\ 36,340 \\ 37 \\ \hline\end{array}$
Total $1,042,9014$ Expenditure...................the Inger-
Chesen ror THE OLD Counrry.
News, after quoting some remarks made by CHEESE For THE NLD
sol Neves, fter quoting some remarks made by
Kingston contempurary with reference to the fact that abuut forty waggon loads of cheese
passed through that city lately, consigned to I.ngland, and the importance of the cheese
terest, a a dus that-" ft may be of some interes to our contemporary and the public to know that it is not an unusual thing to see over tw
hundred and fifty waggon loads of cheese pass ing through Ingersoll in one day for shipment
to the old country The daily average during
the season undoubtedly exceeds firty waggon the seas
loads."
Crow Crown Lands SALE.- The sale of timber
herths on the Miranichitook place as adver.
tised in the Royal fazette. The advance on the urset price from last year was from $\$ 5$ to $\$ 8$. exceeding anysthing ever witnessed character, in
that institution. The sales realized at com.
 of the entire sales of the previoubyear. Pre-
suming that the eales during the balance of the
year do not exceed those of 1871, it will exhibit year increa
$\$ 10,000$.
Recert reports by the Emigration Commissioners in Great Britain show that the outflow
of English emigrants has become much reater
than that of the Irish Previous to 1869 the
 Ensland to about 70,000 from Ireland. The
loss of Ireland, however, in proportion to popu-
lation, is much greater than that of either thg lind or scotland. Nearly four ffiths of all the emigrants from Cireat
in the United states. G. W. R. Trafric.-Exhirriton Were. A
statement of the traffic over the G. W. . dur
it $g$ the week of the Provincial Exhibition at
 at over 67, 000 . This is said to be much in excess
of any week in the hilistory of the road. It
must afford the manarement of the line ex must afford the management of the line ex
treme satisfaction tha, ,although their resourcei
were taxed to their were taxtd to their uunost capacity, delays in
transportati n were quite trifing, and no transportation wer
accident occurred.
 t. ry. Prof. IIenry Wintz exhibited some beau-
tiffil crystalized specimens of heavy tin stone of
cassiterite, tiscovered a few months since on the cassiterite, tiscovtred a few months since on the
mont northery shore of Lake Superior, near
Neepigon Bay. The deposits are said to be xteusive and vauanie. Intercolonial Bridge. - The Colonial Farm.
iff mas us th t the Inte clonal bridte
 yo, feet of mason work, and will be fiuished this 90, fee
fall.
Lak





 nev wrot

 the roperid rat




 Rect Srukf or silver ofe The Windor

 this oity, that the popplation on totawa and Nivy siraniras Tmo



## Aliscellameous.

the nature and preservation of The best timber is that which has grown is compact and heavy the annual rings being thin and uniform, showing à hard, clear surface when cut and not a dull or chalky one, free from chasslakers or cracks be when cut at or near the maturity of the tree, as a young tree has too much sap--
wood and an old oue is likely to get hard wood, and an olt oue is likely to get hart ye greatest age at which the oidinary kinds of wood should be cut. The best seasons for felling is when the sap is quiet, exposed freely to the air in a dry place,
sheltered from the sun and rain, require two years and upwards, according to the size, to become well seasoned. A Amal
part, however, of the material put into our public works receives sufficient treatment in this respect, and hence the short life o
the majority of these structures. Artificial the majority of theses by exposing the ma terial, properly piled in a suitable building, to a current of hot air. Timber loses 11
drying from 15 to 30 per cent. of its weight, per cent. Wood lasts longest when ke dry and well ventilated. When kept co stantly wet it is somewhat softenen, an will not Piles placed in the Phine nearly 2,00 years ayo have been found quite soun during the present century, and the ron timbers of some of the older Italian churc way bridges in this country are apparentl Way bridges by from 40 to 50 years' use ; the
uninjured railway bridges, made of good material and for twenty years, and are yet in good order. ly wet and dry, or when subjected to a hot moist, close atmosphere. Thorough seasining, protection from the shan and ram, and to the preservation of timber. Oil paint will protect wood from moisture fr
without, but unless it is perfectly dry w
painted, the moisture within will beunable
to escape, and will cause decay. Severat 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. Chapman's process employs sulphate of ion (copperas) ; Kyan's process, corrosive
sublimates (bichleride of mertury); Bennett's process, chloride of ziuc; Boucherie's method, sulphate of copper ; and Mr. Bethnell saturates the timber with creo exhausted from the tank in which the imber is placed, and the sap drawn out from the pores, and the solution forced in.
The woody fibre is seen by the microThe woody fibre is seen by the microthe tenacity of which depends the tensil strength of the timber. The lateral adhe-
sion or the strength across the grain desion or the strength across the grain de
pends upon the adhesion of the sides of he tubes. The pines, or cone-bearing trees, have a straight and regular fibre, and ar
vell adapted to direct tensil strains: well adapted to direct tensil strains; the lateral adkesion is small, so that the suitable to resist the shearing endwise, or sliding of the fibres
the hard woods.-Ex.

## immigration into canada.

Under the above heading the New York
Herald makes the following remarksupo the progress of Canada in material prosper-
ity:-"We think our northern neighbor slow. So they are, if we contrast their his. tory with ours for the past century. Still, the statistics show that during the last au addition of more than forty per cent to her population, and during the last thirtythree years more than twice doubled her number of inhadionts, counting now tha and a-half millions, against half a million a third of a century ago. As our pupula-
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 Yet, since the breaking ont of our late
war, she has cained at a more rapid prowortionate rate than we have, our increment of population having been thirty-five per cent. As Canada has three hundred and fifty thousand square miles or territory, 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 ten persons for each six hundred and forty dance of room for all who may come to fortune from the abundant facilities she trial enterprise. Should she continue to grow at her presert rate till the end of this century, she will then have a population of
twenty millions, or about half our present wenty milliuns, or about half our preselit
number. Though events do not move with rush so rapidly beyond our northern frou tier as on this side of it, Canada has vas enterprises which mark her population mbracing the same elements of thrit Her great rivers and excellent harbors, her canals and rail ways, when completed, will offer to the product of her fields, forest rapidy growing and prosperous population will firrish abundant consumers for the rabrics with which Europe balances thie
traffic. It cannot be doubted that for British subjects who wish to escape the over-crowding and excessive competition in all industrial and commercial pursuits our experiment of self. government, Canada offers abuudant hope for an improved conseveral de deades she will receive a const int the two Englisth-speaking nations must
control the destinies of North America. If, in time, Canada wi-hes to take her place in the of freedom, we hold ourselves realy to comply with the dictates of 'manifest des tiny.' Should she prefer to stay out of the Union, we shall still be true friends, gener-
ous rivals, and good neighbors. Her prosous rivals, and good neighbors.
! perity will only stimulate oura,"

## 

We know of three methods:- First, the old
Wench plan; this is men who make it a special business. They hey whe eva ion in the middie, oike an island, pening is dovered, and a large balanced valve
piece of fried pork. r the mese die of th this valued at walks on it pork to ret cheese is placed; when
,he valve goe
own, drops the rat into the water, and noves ack in psition. A road is made from a ra
ole to the top of the tub, by means of a piec
board rubbed with che se, so as to make board rubled with cher se, so as $t$ make the
alk attractive for the rats. In the course of
and single night some ten twenty, or even more
ath say qo down, and tif the illand was not here
hey would find found most all alive in the mornof quietly swimming round; but the provision
the litle kindness saves the trouble of killing inem, for their enostistic instinct for self-preser
vation causes them to fight for the exclusive ossession of the islind, on wbich in the mo ning
he strollgest rat is found in folitary possession ne strongest rat is found in solitary possession
h the dithers being killed and drowned around
Lim. Second, the New York plan invented by ne of our friends. The flor near the rat hole
c.vered with a thin layer of a moist custic Mtassa. When the rats walk on this it make
heir feet sore; these they lick wifh their tongue
hich is, that makes theirir mouths sorere; and the the resul
apality not alone but
apear to tell all the rats in the neighborhood boun it, and de ventually the house is entirely
abandoned by them.notwithstanding.the houser
a
 nethoil his. ind we have, however. never tried it.
a number of rats are left together to themselves in a very large trap or cace, with no f"od what
ver; their craving hur ger will cause them th ever, their craving weks will be eaten by the
dillt, and the weakest wit
st ongest. Atter a short time the fight is re.
 others, $i t i$ is et loones; the animal has now ac-
quired such a taste for rat-flesh that he is the quired such a taste for rat-flesh that he is the
terror of ratd.n, going rund decking what rat
he cav devour. Han an incredibly short time the iremises are aband ned by all other rats, which
will not come back before the cannibal rat has
veft or died. - Manufoctuere und

## There are, doubtless, few persons, esprecially among gentlemen, who do not suffer from the inconvenience of dandruff. Physicians do no consider it of sufficient importance to engage

 their attention, and the poor victims are left topractice their endurace, ri, for accure, to try
prate some of the many nostrums advertised in
public prints. The intolerabe itching whi
accompanies the troublescome complaint is
 the white scales on the cont collar and shoulder
is very ohjjectionable. The writer, during
umber

 proved effectual, but after a persistent troot
nent of some monthe, the hair heecame sensibly shinner, and perraps, would haver soon disap
peareel altogether. The belief that dandrut


 $2=2$
 there isne in ondication of the rturn of the
disease. 1 Idy not pretend to explain the modus t, at sublimed sulph1, ine is almost wholly insoln
hie, and the iivuil used was destitnte of taste color or smell. The effect speaks for iteelf
Jou inal of Phia macy.
 and mud bound in the fall and spring, would wish
forsome change to mimpeve the roads in thei
vicinity. The writer thus speaks of the cost at
change in the en tha beilent of those who write of
It it often the bost ing emigrants, that no settled portion of our
Provice is without itg good higway rad kept
in repair at public expernse and free to all who in repair at public expense and free to all who
uase it ; and lit is true that large sume mon money
have been and are annually oxpended apon our
madr snand bridgee The annual





 and
 jent tobatho ex. oneys than subtatituted.
ond bat than oftione of Super ion mof freat
the english harvist.







hoe nust on wurrb coobs








Under thit heading a wrier in tho soer



 good work on the sul.ject. 1 winter be tween walls, which is ifled with atraw. I have
wintered this way for two years with perfect enefit of R illways.




 atyiney







$\qquad$





FARMER'S ADVOCATE
 The directions are to use eight or ten leaver for
a quart of yeast. boiling thein ab ut ten minutes a quart of yeast. $101 i n g$ thein ab at ten minutes,
and pouring the hat liquor on the flour, the
quantity of the latter being determined by quantity of the latter being determined
whether you waint the yeast thick or thin. $U$
bop yeast for raising it to begin uith, hop yeast for raising it to begin uith, and a t te
ward that made of the grape leaves. 1rie
leaves are equally as good as fresh. $\$$. ward that made of the grape leaves. Mried
leaves are equall as good an fresh. $\$$ metimes
the yeast has a dark tim civer its surfac when teave years has a dark film wer its surfac when wither
rising, but this enticely disappear. when tirred The valiewiss of wood produced in different
parta of the world are f.r more numerous than parts of the world are firr more numerous than mos people are aware of. At the Paris LE- x
position of 1867 there were. from 45 different
 woid uxhibited, 3 .n comi
from Afria, 8.8 from As
and 1,298 froun America.
To remove old putty from broken windows,
dip a sm ll brush in nitric or muriatic acid
(obtainable ot any in dip a smill brush in druggict's), and with it
(obtainable at any
anoint or paint vert he dry puty hat ahtheres to the brokenglass and frames of your windows,
after an hour's interval, the putty will become as so tus tơ be removed easily.
Th He smallesp steam engine in the world is
in possession of Jthn Penn, of Greenw ch, Eng
land it will stand on atire penny
 reanly three-eigh ths br about three-tenth. It
is onl
whole weight is less than three evenny weights $\underset{\text { ringworm }}{\text { Dried }}$
A._工_工 Antention to again petition Parliament at its next sessing for an Act to allow us to form a jnint stnck company to carry on the form a company for the Advocate, but consider that the results would be more beneficial if both were carriel on toyether granted, and au opportunity will be give

## The Haggis.

## Old England.

Old Fngland though she be, And she the 'airest vessel That ever sail'd earth round, my lad : And you will live to see Her name go round the world agai For so it shall be to the end,
As of yore, as of yore:One cheor, that, for $U 14$ England
And one cheer more!
The masts are frm and fine; Her ancient cr so of glory
Hides blazing through the blue:--
les blazing through the blue, my lad While underneath it go Who smile at storm and foe,
Wike tions on ward to the end Like lions onward to tive end,
As of yore ar of yore:-
One cheer, th in, for Old England

Prophets of wreck and woe, There is $n$ no place for you, Among the bold and true :-
Among the bold and true, my lad
Who as the waves run ligh
And they can almost touch the dark, True to the core, and to the end,
One cheer, the for Old England
As youth disguised in man Although her build b e changed,
It is the saine Oid England That ersto oer ocean ranged :-
That si ill has kept thy seas, my lad To him who off Trafals r fell,

Unchanged 'mid changes to the end
As of yors, as of yore:--
Blow, then, great tempests, blow;
White lightnings. seam the blue ; There is nof fear for Knıland
With such a boat and crew !
With succla fame and name, my lad The thoupht, 'f what her sons have be
And what thev yet will be,
And God beside her to the end,

As of youe, as of Yore :
One cheer, then, for Old England :
And one cheer mere!
-People's Magazine.

An advertisement in a Western paper in can be obtained at a large and shady brick gentleman's residence in the country.
A Conn c'icut editor says:-" Our early peas cane up in two days after they were hanted this year." Any ones peas wi.
ike wise if the hens are allowed to run in the
garden. garden. ${ }^{\text {" Wife," }}$
fe," said a man, lonking for a bootjack, you ought to know it." "Yes, I oughit to don't." " An old lady gives this as her idea of a gen-
tieman:- Nue who is kereful of his cluthee,
dion't drink sperts, ken read the Bible withdon't drink sperets, ken read the Bible with-
out speling the woids, and eat a a coid dinner out speling the words, and eat
on wash days without \& rumbling. A lad arrested for theft when taken befo
the maki,trite and a-ked what his occupatio was, frawk'y answered,." stealing." "Your candour a.toni hes me," said the judge." "I
n. 1 .ught it would", responded the youth, "see ing how ma y biy uns theere are in the busi-
ness, and is ashamed to own it." ness, and is ashamed to own it.' A negro who was suspected of surrepti-
tiousis medd ing with his ne ghbors fruit
bent
 Casping lis hains, and liously exclaiming. wheres tis pray any more without bees sturi
Th
been seen taking nusic lessons on the piano for rder to eishe years. The "ther day she sent an fearing her spelliny minht 1hen be just right fetter, as I pla bi noat, butt spel by ere."



PUZZLES $\overline{\text { FOR }}$ NOV. NO.
 human body.
3. Behead a small animal and leave a rrepo
aiti n siti . . . .head a grain and leave a preposition.
5. Behead a grain and leave a perboual pro.
no. no in. Beheart a gr
6o. Bre
most in summer.

 her mother
was he? acrostics.

$$
\begin{aligned}
& \text { Summer now has pars'd away, } \\
& \text { Ushering Autumn in again } \\
& \text { Making hearts feel iight and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Maring hearts fell ifht and gy ; } \\
& \text { Mirth and gldness now sh ud reign ; }
\end{aligned}
$$

Mirth and gldiess now shi A ,
Every barn is filled with gra n,
Ready now $\mathrm{f} r \mathrm{r}$ snow and rain.
Autumn, he ri hest of the four,
The leaves. ecar. .hecy dr op ant ${ }^{2}$ die,
Under the trees thy y withreed lie
Under the trees th-y with rered lie;
Make ready now for frot and fnow
North winds will soon begin to blow.
phi fole ma
My friend did
kat clusily?
II guess not, they are a kritter who won't bear exam-

## 


*



 This izone way
$J_{\text {osh } h \text { Billingag. }}$

Srock Sale. - Col. Taylor, of this cit
sold his first prize short-horn hull calf "Duke of Sirringwood," to Mr. W. Be of Shakspeare, for the sum of
To Clefan Carpets. - Salt sprink led upon
carpet before sweeping will make it look bric caryet beerore swe
and clean. Th.
against motha.

Editorial Notices. "Outside the thoroughbred class there were
to animals especially deserving of notice--
 Stevenson,' imported from Yorkshire at a cost
of $\$ 1500$, and the best we have seen here ; the f 1500 , and the best we have seen here; the
ther, a , general. purpose stallion, 'Canadian
opard, by 'Anglo-Saxon,' 'ut of a 'Leapard' 'opard,' by 'Anglo-Saxon,' out of a ' 'Leopard'
nore, fve years old. own. by M. G. McKay, Delaware, and as well-built, active a horse for
his age as one could wish to sie." [We extract the ahove from the Toronto Mail's
awcont of the Western Hair There are many
co the .4 Anglo-Saxon's" colts now improving if the "Anglo-Saxon's" colts: now improving
the stock on the country We are awr re the
management of the horse was not satisfactory management of the horse was not satisfactory
either to the owner rot the pulic durin the
first attempts to establish the Ayricultural Em. hrstatempt, despite prejudices that have beeut
porium ; but,
raised and attemp $s$ maret to trample both the to
.

im
 Manriviba Peas.- - We have hal the pleasure
of hearing frum our old subscriber, Mr. J. D. of hearing frum our old subscriber, Mr. J. J. D.
Campboll, Stapleton, Manitoba, and receiving
from Crompboll, by mail a, small package of the vry
from him by mean that of so much importance to
valuabl
the stoc

 rape hope. from the packure of seed sent us, to
We abole to raise a considerable quantity and
testitits value for arriculturists in this section. test its value for arriculturists in this section.
Mr. Campbell will accept our thanks for his
tind reme ubance of Рнот
Photographs- - We have just received from
Messro. Notman \& Fraser tuo Phtographs,
abinet size, of his Fxcellency Earl Duff rin

 firm.
office. once.
Prans.- From Mr. W. Grieve, of Westmin.
ster, we have receivec a very chocice and fine ster, we have received a very choice and fine
assortment of pears, which we think equal to
any seen at any exhibition, and far superior o us !
ErGLIsh ThonN.-We have received a pack-
age of English thorn seed from G. B hop of
Adelaite. He has hedges from the same kind age of the.
Adelaite.
of thorn. $\overline{\text { RESOLUTION of delaware township }}$ COUNCIL.
The following is a copy of a resolution
passed by the Delaware Township Council passed by the
on the 14th of October, 1872:-
n M vet by Mr. Fi ld, seconded by M. Har-
is-That in e neque ce on an fron-nus survey and hy the la ortinn of his land and a
was deprived of a was deprived of a
 Council woud therefore reconmend hin 10 the
con-ideration of Governm-nt bel eving him to con judtly entitled t some r. muneration. be jurty en, we fully recognize and apprecate
Firther, in adv.nc ng the interests of the his efturts in adv. nc ne the interests of the
farming conmunity $y$ y the puhbic. tion of the 'arming conm Advocate, ane by the intriduc'ion and dis eminat on of seels and rints. Carrie
John Johsstone. Tp. Clerk.

## elderberry wine.

Elderberries, 10 gallons ; water, 10 gal Ions; white sugar, 45 pounds; red tartar 8 ounces ; ferment withe yeast, add gingerroot, sliced, or allspice, 4 ounces ; bitter alo s, 4 ounces, suspended in a bag, may is fermentins they are then to be removed. Brandy may be adided or not. When the wine is clear, which will be in about three months, it may he drawn off from the varied according to taste.
A Ne: York prpar says, "that the streets
of that city me now in a much coner contition thas a few week k ag , , anl that by horlding a handherchief to one's nose. it is prssible
to pass through several of the thorougharee."

Carter's Op Carters
Patent Stum
Little Giant Little Giant 1
Forfar's Chur
Churs. 0 other Churns. other
Chafs Cutters
frim Sil to Gardiner's
Horse Powe

Cider Press | Cider Pres |
| :---: |
| $\begin{array}{c}\text { Joness } \\ \text { farns, }\end{array}$ | farins, \&

Mathesin'
Innroved rollers,
Taylor's
from
from Limb's P
Lockman
s 3 . Garderers Pa
Gates' atate
Oat Osborne Sew
Oonds sew
Fo fars Ro
Prwincia

Lon
White White
Rariey
Bary.
Port.
Oats.

Grains
Goring $W$ m:
Gown
p.in.
$\underset{\text { Express }}{\text { Mail }}$


TO I $H_{\text {vicious }}^{\mathrm{ORSES}}$ niaw hund
BARROW FARI
$\underset{\substack{\text { brecu } \\ \text { orde } \\ \text { the in in }}}{\text { inese }}$

Emporium Price List for Nov.
Carter's Op. $n$ Ditching Macchine.
Carter's Tile Ditching Machine.
$\$ 13$
sis. Carter's Tile Ditching Machine. $\$ 8 t 3 \mathrm{t}$. Little Giant Thresher, ${ }^{\text {Forfar's }}$ Shurn, Pride of the Dairy, $\$ 4.50$. Churns. other varieties.
Chaff Cutters on the most approved principles, frum \$16 to $\$ .50$.
 Jones' Amalgam B Bils, for schools, churche
 Improved Clothes Wringer, with indian rubber
rollers, $\$ 8$.
Tit L"mb's Patent Knitting Machine. $\$ 33$
 Gardnetrs Patent Sewing Machine, $\$ 30$ and $\$ 35$.
Gates' Patent Sewing Machine, $\$ 35$. Osborne Sewing Machine, $\$ 3.0$.
Woond's Sewing Machines,
$\$ 80, \$ 85$, and $\$ 100$ Wo far's Root Cutter sb, took first prize at
Pr,vincial Exhibtion, 1872 ; efficient and


## London Market-Cct. 28,

 White Fall What, per bush. $\$ 115$ to 12 :$\mathbf{R}, \dot{\prime}$ Winter Wheat ......... 10 to 116 Bariey
Pertar
Osts. 0
0
0
053
0 to to 036

Great Western Railway
Trains leave London as follows :-
Going West. $-12.50 \mathrm{p} . \mathrm{m} .5 \mathrm{E} .25 \mathrm{p} . \mathrm{m}: ~$
2.45 a


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


TO HORSE OWNERS.
 FARMERS, Improve your Stock of Pigs.



NDLEsEx. Hot
HTHNETNGTMON,



Young Adam




Captain Tinks" od bs George Martin. Esa, of Port Dover,






TON'S NEW Palat Masting IMadiar

What is claimed for i














## 


Tile Gminie Pout Citurer!
THIS ROOT GUTTER GARRIED ORF THP

 ONE TO TWO BUSHELS A MINUTE


W. Wıid, Abgit
w. besis \& ©0., The King of Seving Madiines


## Cabinet Organs!

AND MELODEONS
PHP An Containing Scribner's Pat andifying Tube Awarded the Only Medal
 CAUTION


## ORGANETTE."

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

VAJUABLH FARM SOL SALFA



Re? This sisulpare
dotermi.ed tol
Apply to
or to this oficic
Beuben brsbee, Derizes po
YEARLING DURHAM BULLS FOR SALE.
TWO FIRST-CLASS YOUNG BULLS



## Gardener Wanted.

()$^{\text {NE whn will take oharge of a market marden on }}$


The Dominion File Works,
St. Gabriel's Locks, M.wnlieal.
UTRAM \& CO., Proprietore. FILES and RA:PS Mnntantly on hand or made GEORGE VAIR,
GLAVDSCIPE GREDENERE.


 Aust
Ant bouse. - 1872
hit
wRITE FOR THE FARMER'S ADVOCATE.


CHE CNEBORN lock stitch

## Sewing Machine

Ha nor hao hatad boynd ill gestion and wo




 Guelph Sewing Machine Co.,



## H U G HE S

GARDEN AND ORCHARD TRIMMER \& PRUNER.

 PRICE, - - ONLY \$3.
 and and

Por furber forminite adian os. P. cosThite

 hy rive ind


 , inersen mor Nan



## FARMER'S ADVOCATE

펴오포N FACTORY TO RENT
ON SHARES.
 lirts-ive cows are kept on the farm Thatory mil
Tha tonnant must pay hatif the value of the stook This is a rara fut itiste in investmont
 None nood apply unless a man with a family
sod one who oancome woll reommended. Apniantiona stating partioularss and oirroum London, Aug, 1872,

## COSSITT'S

AGRICULTURAL IMPLEMENT WORKS,
GUEIPEX, ONTI. $M^{\text {anveracture all kinds of Agrioultural } 1 \mathrm{Im} \text { - }}$
 Parits stran Cuter Litte fiant Straw Cuter tor mad atitifaction guaranteed. LEVI COSSITTT. Nolson Creseent, Guelph.
GreatSale of Cutters \& Sleigh in all rarietios and designs on and arfor Docem. -

ODGSON \& MORAN
Richmond Street. near Crystal Palaoe,
LONDON, ${ }_{12-\text { Ofi }}$
Nor. 25 th, 1871.
G. MOORHEAD wholesale and retall
Manufacturer of Furniture UPHOLSTERER, \&c. 1-tf J. H. WILSON, VETERINARY SURGEON, Ifioo-New Arcado. hetween Dundag grteget and



## HOWARD'S IMPRONED

 IRON HARROW




They are eivinib entiro sutustatation.


解



 Chend

$\$ 50$ and 853 Each, WORIK BT:FIND Sots ap its own work, knits a pair of Stook ings in
30 Minute
Also
Fancy

 SINGER \& HOWE SEWING MACHINES, For Pamilies and Manufacturers' use, cheap for The latest out, needed by every lady in the land

THE CRESCENT GRADUATED
Button Hole Cutter.
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Hold in Hamilton, Ont., D.C., in the year 1872.




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Group 26. Education, Teaching and InetrucTo the exhibition of articles, coming under
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e. Exhibitors are responsible for the pack ing forwarding. receiving and unnaecling of
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f. The objects will be submitted to the judg.
 GIVEN TO PARTIES GETTING UP CLUBS

FARMERS' ADVOCATE.
For a Club of new subscribers.-Ten choice Parrot Tulip Bulbs. This is a chance no lady should necrocet. Secure them and plant this autumb. Soe cut.

 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 be given with it.
Wor a Club of 11 new Subsertbers.--Two silendild chromoe, same size as above, one representing a ellection 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. Club or 20.-A very choice young improved Berkshire from the best stock; will be ready to send early in December.
Hor 30 Subscribers.--One good Cotswold ram lamb, raised from F. W. Stone's stock.
4 Any one preferring Seed Grain, Small Seeda, hoots, Stock, Implemeata, Poultry of any breed, or Eggs in the spring, may receive them as prizes. A more complete list will appear in our December number.
7. The objectaf for Exhilition will be receiv15th day of April, 1173.
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