

AND FIOME MAGAZINE
VUL. XVIII.
L'JNDON, UNT., UCTUBER, 1883.
Whole No. 214
Reastrked in Acoordance with the Copyright Act of 1875.

THE FARMER'S ADVOCATE HOME MAGAZINE.
william weld, Editor and Proprietor. The FARHRR's ADVocartrin ig published on or about the 1 1st of
each month, is handsomely illustrated with original engray-
 nen, of any publication in, Canada.
moll
Impartial and ind independent of or parties, the



terms of subscription Single copies, 10 cents each, postage prepaid. Single copies, 10 cents each, postage prepaid
2. Subseriptions can commence with any mo





> ADVERTISING RATES:

Will be furnished on application, and manufacturers, sedss
men, stock breeders and others will find this journal an un-
riven
 nd are read. sample copy.

THE FARMER'S ADVOCATE,
 B. F. Stevens, 4 Trafalgar Square, London, to receive subscriptions and advertisements for this magazine.
Agents Wanted in Every County. We want live, energetic and reliable agents in
every county to canvass for subscribers, to extend every cir ulation of this paper, believing that it wil
the subcribers be of material advantage to the new subscribers
as well as to the proprietor. We will pay a libera as well as to the proprietor. We will pay a tibera
commision to agents who whe their time to the work of canvassing for it Circulars describing
our premiums more fully, with extra copies, illus our premiums more fully, with extra copies, illus
trated poster, \&c., sent free on application. Ad dress simply

$$
\begin{gathered}
\text { The Farmer's Advocate, } \\
\text { London, Canada }
\end{gathered}
$$

We point with some little degree of pride to the continued generous parronage accoruers and enter tising pages by eace, indicating how valuable THE medium.

Sir,-Mr. Wm. Shier recommended your paper
so highly to me that I now send you \$1.00 for it.
TThis is the way our circulation increases; over
3000 new subscribers have been added the past
year in this way, and they who once take it appre year in this way, an their subscriptions promptly
ciateit, and renew their
year after year.]

Dura Monthly Prize Essay.
Our prize of $\$ 5.00$ given for the best essay on the comparative advantages and profits o Summer and Winter Dairying, has been won by
J. B. Bessey, of Georgetown, Ont., and will be published in our next issue
A prize of $\$ 5.00$ will be given for the best essay upon The Advantages of Maintaning Township Exhibutions. [On account of the masy exaib
tions the time for receiving this essay has bee extended to the 15 th November. 1

Our Exhibition Issue for 1883. All subscribers who are desirous of having a copy of our spested to forward such names with P. O. address at once. Our Exhibition Issue is free on application to our subscribers being in cluded in their annual subscription, and will be very interesting to them as well as to their friends Send names at once. As this issue is issued mainly to procure our usual large addition of new name at this time, our friends will kindly use the copies received to the best advantage

The Farmer's Advocate was started as a four page sheet in 1866, at 50 c . per annum. Its circu
ation was less than 500 copies, and not over 5,00 copies for the year. In 1868 the paper was increased to 16 small pages, and the prico became $\$ 1.00$ per annum, whilst the circulation was abs the past year
month, or 40,000 in the year. During by the press of reading matter and advertising patronage, we have been compelled to increase our siz tion of $\$ 1.00$ per annum, whilst the circulation has not been less than 16,000 copies in any month, and the total circulation has exceeded 225,000 copies
For this month Oct., 1889 we 20,000 cories independent of our mammoth Next year we hope still further to increase the value of your paper, withott any additional expense to its patrons, and confidently ask each sub-
scriber to send in at least one new name for 1884 .

How to Get Subscribers and Win How to Gremiums.
Select your premiums. Make out a list of neighbors or farmers in your vicinity, who, ecomey do cribers. Call upon them systematically for a few evenings, and you will be surprised to find how atitle you to almost any article you desire in our list. Have a small blank book or memorandum that will contain the name of each subscriber as the influence of numbers will aid you materially.
When B sees that A has subscribed, he will be in. luenced to do likewise, especially after you have you send the names to us, we will forward the Premiums to your address. Our subscription list is to.day larger than ever. We ask the co-operation
of our subscribers and friends in placing the Farmer's Advocate and Home Magazine in farmer's advocat
every farmer's home.

The Farmer's Anvocate, while essentially a armer's paper, is much more besides. Among its aried contents are well written editorials and terest to the intelligent reader of every class. There is fun and amusement for the home and instruction for the field, garden and live stock deartments, which cow. Irpass matter of con. ratulation, too, that this publication, though issued in London, has enjoyed acommercial succeess
far beyond that achieved by any other similar far beyond that achieved by any other similar
journal in Canada. The reason is that it is edited and directed by men of practical experience as well as book knowledge of the matters upon Wh.
they have to treat. $-[$ Free Press, London, Ont.

## By the Way.

## Some fine fairs yet

Better plow a little deeper this fall.
Use the roller on the winter wheat. Do not be sparing of the whitewash. Come, boys, now "go for" the coons Are you ready for Jack Frost's visits. The best manure is the foot of the owner. To prevent cold fingers dig potatoes early. Always separate sick animals from the others. For long evenings-good agricultural papers and books.
Tobacco water or carbolic soap suds will destroy A little linseed meal mixed with the feed is good or scours in sheep.
Plough for next year's oat crop early, so that
the rain and warm weather will rot the sod. the rain and wann We Manure pear trees in the fall. Fresh manure
applied in the spring is liable to produce blight. Sow orchard grass early or wait until spring. It
nust get a good stand or it will be uprooted by the must ge
frost.
For black knot on plum trees, cut away and burn the diseased parts. If you neglect this you Teach the cows to come to the bars night and morning by simply baiting them
Sow spinach every two or three weeks until cold Sow spinach every two or three weeks untspring
weather for a succession of plants in the spring
Protect through the winter with leaves or straw. Protect through the winter with leaves or straw. Mr. James Beal attributes his agricultural suc.
cess to the habit of guarding against little leaks For one thing, his stock consume or make into manure all his stalks and straw.
A correspondent of the Germantown Telegraph
says his hickory timber which proved most durable says his hickory timber which proved most darabl
was cut in antumn-u after all the leaves had fal len and the sap had disappeared.
In one Kansas county in "early amber" sorghum
cane there is a yield of 150 gallons an acre at forty cane there is a yielor seg is worth fifty cents a
cents a gallon. The seed cents a gallon. The seed for
bushel for stock fed at twenty bushels to the acre Do Your Work Thorovahly - This is especial ly necessary in farm When you undertake to ex terminate thistles or daisies or quack grass, do it Don't rest satisfied with trying and with partia success. Plough them under and keep them ther
by repeated ploughings. When you hoe a cro by repeated ploughing. do it in such a manner that there will be no living weeds left behind your hoe. Good work is the weeds left
cheapest.

## ©rditorial.

## Roads.

There is a great need in this country of not only having good roads, but also those that are tastefully laid out and planted with various kinds of sully laid out and planted with various adds more to the appearance of a country, not only to the appearance, but to the value of the land, than good roads and tidy farms with well laid-out fronts? Wherever you see farms on a good road planted with trees and showing taste, even if the land is inferior, you will find it rising in value over superior soil differently situated. The outlay of a fow dollars in beautifying roads in the front of farms will add hundreds to their value. With the abundance of all kinds of valuable trees which are at the farmers hands, they can be pat down mere nontify, of roads is not only for individual The beautifying oro bono publico-for the public benefit, but it is pro oono pubico-lor has recog. nized this by allowing so much per tree to each individual that plants trees on the highways. It is well known that Ontario is fast becoming depleted of its timber, and especially those varieties most fitted for shade trees. Take the maple, for inatanoe, and what with ita superiority as fire wood and its extensive use in manufactures, it is fast disappearing, and young maple trees sell every spring at a high price. But whilst beautifying our roods a profitable investment can be made, especi ally for future generations, by planting nut-bearing varieties of trees, which answer at the same time as shade-fin indy, of medium growth, and not only bring forth an abundance of valuable fruit, but also the wood is valuable in manufacturing. By beautifying roads it would first add to the appearance of the oountry at large it would enhance the individual property, and lastly, by planting nut-bearing trees there would b an annual profit from the sale of this fruit to the farmer. We know of no more enchanting scene than to take a drive at this time of the year along some of our roads and ree the over-hanging wainu laden with its huge stone like frut, and clustering ing shells of the sweet hers, beautify you roads and homes by planting trees !

## Buying Cattle to reed.

The question is frequently asked if buying cattle to feed pays, or whether the greater profit does not arise from a farmer breeding and feeding his own stock, or otherwise combining the two. Certainly
if a farmer in this country, who follows a mixed if a farmer in this country, who follows a mixed
husbandry, can always raise enough stock for his own feeding, with such a one the best results will be from feeding his own stock; for he who sells stock to feed must have a pront, or stock raising yould cease. so the Howerer, as some own stock just gains this proft. However, as some farms and some farmers and, they have to depend upon buying their animals to fatten; and not only upon buying this, but also the feed upon which they are fedthe owner merely supplying the capital, stable room and hired help. The actual advantage from this class of feeding, according to the evidence of prominent stock feeders, was the profit on the manure. In the words of one of the gentlemen largely engaged in buying and feeding cattle, who gave evidence : "I feed principally for the manure, and if I make the value of the manure as a pront, after paying labor and stock as much to improve
my farm as for any profit I make out of steers." This would be thought insignificant to the ordinary farmer, as this manure question is are more profits than the dung to most farmers, for there are the profits derived from his own and his family labor, besides manufacturing often other wise unsaleable feed into beef. A farmer having a large quantity of feed, and deficient in stock, is necessitated in buying if he intends to keep up the fertility of his soil, whether his feedingoperationspay more than the dung or not. No doubt that owing to the high price of sfficent raised in the by there not beling purposes, the feeding operation country for of farmers were not a financial success but this is an exceptional case. Another thing there were a great many poor steers, and a number who were not judges, because they covered so man years, thought they must be worth so much, whils there are plenty of well bred two-year-olds as larg as scrub breds are at four. It does not pay to feed a scrub; you are only throwing away your feed and labor. And here is where the majority lose by huying and fattening poor stook. If a thoroughbred or a grade can be made at two and three years of age to weigh as much-and they can-as a scruh at four, here we have one and two years feeding lost-and certainly this does not pay. But the buying and feeding of well bre slace, and especially if the labor is performed by the ordinary hand, which would be required anyway. Buying stock to feed will pay, if only for the manure.

## Windmills and Water Rams.

There is scarcely a season in this country, if we except spring, that there is not more or less frouth, and a scareity of water. It is very often the case, even in mid-winter, when the previous tock a been dry, that farmers have trifted roads to ome strean. Indeed, if ten farmers were taken ot two of these have a convenient natural water upply for their stock, summer and winter, and hrough all seasons. A farm may have a plenti ful supply of water in part of it, and none in an pend upon wells to supply their stock with water greater portion of the year. Driving stock to water a long distance, either in summer or winter has an injurious effect upon stock. If you, say drive a herd of cattle a mile on a hot day to a tream, by the time you get them back again through the dust and heat and consequent fatigue they are just as thirsty as when they started out In winter, again, on a cold day, stock are allowed to go a long distance to the back part of a lot $t$ drink; by the time all of them get throngh, if there is a large herd, they get chic A sure and con watered this ay any is and desideratum, and is most essential to the success of every stock raiser, and to have this about eight farms out of ten will have to depend upon artificial means, or through wells or reservoirs, and as stock cannot very conveniently drink out of a well or a cistern, The rater must be raised to the surface by pumps. The raising of this requires power fromajority of our farmers think the old hand pump is all tha is required. A farmer now-a-days would hardly like to go back to the days of the old reaping hook to cut his grain ; yet pumping water by hand for can be had so a
is a wonder a farmer would spend his time pump
ing by hand. On Sunday or week day, whether
the men are at home or not, the cattle are watared without any manual labor. It is strange that well-o-do and advanced farmers in other respects do ot perceive the enormousply from a properly con. accrue to their watl. In the Western States they stucted wind thing on nearly every farm. These are a comers find it does not pay to pump water by armers any man to cut grain with a sickle, and the same applies to this country. If a farmer here has much stock, it will take some part of the farm labor a considerable time to attend to the water ing, and at the present price of labor it won't pay to pump by hand.
Again, on streams cheap rams could be con atructed so as to pump the water a convenient dis tance to the buildings, and spare all this driving the cattle down to the creek. It is not only wate that is required on a farm, but it wants to be con venient and so that it wise of easfed that if our time to the stock. Wind-mill and ram syatem farmers would try the wind-mile
they would be satisfied with the resulta.

## On the Wing.

On the 19th of Sept. we left London. The corn, beans and vines had all been destroyed by the unus al early frost we had about ten days previoua. We noted that all the corn was injored until w descended to the low land below the mountain, between Niagara and Hamilton. There the corn very vines were yet green, and the peaches orchards to be seen in this vicinity, such as can no where be found in any other part of this Dominion The nearest approach to it is in the county Essex. It is a great advantage to have land the temperature is 1 , as icity southern bank of Niagara.
We walked over the nurseries of Stone \& Well ington, near Fonthill, Ont.; here the frost has not altitude. These nurseries are on light, rolling land. The stock of trees and shrubs were looking remarkably healthy, and considerable fruit is raised in the nurseries. It gave us a better oppor tunity of witnessing the ripening of different vari ties of grapes than we have previously had

- At Niagara Falls, formerly called Clifton, we met Mr. William Armstrong. He had some of the finest peaches we have seen this year. His fruit farm is situated near Queenston, Ont., about six miles from the Suspension Bridge. He has 30 acres, nearly all of which is in fruit, 10 acres being in peacis. He is string to supply the earlyties of the Crawfords. He in-解 cause of the Yellows in the peach. He has for some time watched a small bug that punctures the new wood of the peach, which in after years develops into the Yellows which is so destructive to the trees. He is paying great attention to it, and in time, if any remedy can be found, we shall be pleased to herald it to you
From here we proceeded to the place for which we had started, namely, Batavia, in New York State, where a County Fair was being held, at which a tria of implements was to take plac. An in county, County Fair, there was fopposit company had ac na ev another exhibition with better build fugs and nearer the town, and had held it a few days previous ; but we understand that the new company had relied strongly on horse racing and other attractions to draw the people. One of the papers stated that one of the greatcst attraction on the principal day was a baby show; but despit

October, 1883
THE FARMER'S ADVOCATE:
hese allurements, the old Bataria Agricultural Exhibition far excelled it in utility, in the exhibit of all kinds of agricultural productions and Directors had granted the horsemen some privileges which tended to interfere with the trial of imple ments ; for instance, they caused the trial of implements to cease at $20^{\prime}$ clock on Friday to allow the horse class to draw more attention, and they certainly succeeded, for at. one part of the pro gramme a mule forly, but mules are different to started off pretty fairly, but mules are different to bolt, stop or turn. But they certainly caused the greatest amount of amusement that we ever saw t any race, for they would go just as they pleased and when they pleased, and in two instances the mules went right through the crowd, and the third mule took a notion to make a short cut, and was seen wending his way among the implements despite the exertions of the driver. You may be assured there was some loud laughing at this race. The "Mule Race" novelty Sporting Fair Directors.
Our attention was more devoted to the stock products and implements. There wasa air show of they excel. They had a good exhibit of Holstein, Jersey and Devon cattle, and also a few Brittany cattle. This class we have not yet seen at our exhibitions. But in our opinion the crowning point of this Exhibition was the trial of agricultura implements. There were four different patterns of sulky gang plows on the ground, but only three exhibited their working capacities. Only two comman plows operated. After the plowing was finished the rollers were tested, then the harrows, cultivators, scuffers, seed dais, \&c We cannot parimplements, Mr. Henry Ives has in regard to new implete set of cultivating tools, to be atteched to one frame, by which he believes tha much better work can be done than is now being done by our present cultivating implements. He can keep the land entirely free from weeds, and loosen the ground ; also cultivates deep or merely cuts the thistles and weeds, or extracts th roots of the couch grass. He harvests the bean in the simplest manner we have yet seen He also attaches a potato digger, and all the im plements appear to do very excellent work wher properly used. yet are being made in Canada, but should be introduced and tested at once. Batavia is situate in an excellent agricultural district, the Genessee Valley, the Garden of the Unite States, which has long had a high reputation; bu the frost has injured the bean and corn crop ver much this season, and they depend on beans muc more than we in Canada do for a main crop. Th celebrated Wiard plows are manufactured here and the new works of the Jolaston-Hanwstro are now erected, the when in full blast. But what 700 to 1,000 hands was our imformant sai astonished us most at this establishment were sent to Europe, and othe foreign parts, even to New Zealand and Queens: land. Well, perhaps some of our Canadian manufacturers may yet turn more of their attention supplying our brethren in the antipodes, as th Waterous Engine Co. are doing with their milling machinery
During the coming winter wo hope that ou readers may get upa good discussion in regard to the future management of our agricultural exhis a question to be answered whether at agricultural exhi-
bitions the main and controlling interest should be in the hands of the speculators or showmen, or in cords, where shall wedraw the line? These trial of implements might with advantage be introduced into many of our exhibitions. A half acre of land is sufficient to put any quantity of implements to ork at different times; we do not think much
nore than half an acre was used at the great trial more than half an acre was used at the great trial
at Batavia. We cannot say that we appreciate or favor fancy baby shows and similar exhibits at agri
cultural exhibitions. Still one American at Batavi cultural exhibitions. Still one American at Batavia
said it needed something to stimulate the American said it needed something to stimulate the American gressing now, foreigners must inherit the pro
perty, as so few Americans leave descendants. W erty, as so few Americans leave descendants. step so far out of their sphere ; we must leave some

## The Industrial Exhibition

The first held was the Industrial Exhibition at Thento thas the sual accommodation to visitors this year. The ends and buildings were in exceilent oring King
most favorable. Our coming Prince George, accompanied by the Princess Louis nd the Marquis of Lorne, our present Governor eneral, were the great magnets of the first week They were all looking very well, but their visit appened to be when the weather was the least propitious, and the week before the stock and pro ucts of the farm, garden and orchard were on th grounds.
There
There was an excellent display of agricultural mplements of high merit and finish. Similar im lements have been exhibited will be seen at the leading exhibitions throughout the Dominion. This ear some have slight alterations to make or talk bout, but every alteration is not always an imrovement. The greatest step in improvement has een made in the self-binding harvesters. There are now exhibited for the first time several binder that have decided improvements; some are entirely novel, or have so much novelty in their construc tion that they almost appear to be new machines They are simplified, and many can be
Coming events cast their shadows before. The isplay of sulky plows this year exceeds anything ver before seen in Canada. This convinces us that our farmers are in future to be found riding and plowing, instead of walking all day. These sulky plows have been so much improved that in the field they are no longer an experiment, are efficient and give satisfaction. Thus many tirms are about to enter into the manufacture of them for the coming year.
The Carter Ditcher has been remodeled and we think greatly improved. It appears like an efficient machine for many localities ; it possibly and may be of inestimable value for future generations. It is eighteen years since the inventor commenced the labor of inventing and perfecting it. He expended about $\$ 20,000$ of his own property on it; another person then sank nearly $\$ 100,000$ in it. Now he has a third person who has purchased a two-third interes in it. Such is quite often the lot of real enthusiastic inventors who bring out of their brains something that is of benefit to the world for future generation. .ese implement are now abolad and are also to be made in the United States. We say well done, Carter! Thi Ditcher is entirely a Canadian invention.
Perhaps the greatest deficiency in the Exhibition was the display of potato planting and potato digging implements. There was one of the latte
mplements exhibited, but its appearance was not uch as to inspire confidence. We did not notice any hay tedder on exhibition. Often farmers have asked for them, but it appears no manufacturers deem them of sufficient importance to make them. The main building contained a large display, principally from the Toronto stores, each line having something special to attract attention. The carriage building, stove buildings and complain much about the length of time and expense of attending and exhibiting for two weeks, when all the business could as well be done in three or four days. The fruit, grain and stock were not on exhibition when we were there. We leave that for other assistants to attend to, as we are invited to attend other exhibitions, and cannot spare time

Live Stock at the Industrial Exhibition The display of live stock at the Toronto Fair of
1883 may fairly be said to have been an extraor1883 may fairly be said to have been an extraordinary one, both in regard to numbers and quality,
nearly all the classes being well filled, and most of nearly all the classes being well filled, and most
them with animals of high-class quality. A strik. ing feature in many of the classes was the very
large number of imported animals exhibited. large number of imported animals exhibited.
This was particularly noticeable in the sheep This was particularly noticeable in the sheep
classes, and led to the remark that it was more classes, and led to the remark that it was more
like an exhibition of English stock than of Can
adian Limited adian. Limited space precludes the possibility of
giving a detailed account or criticism of the stock giving a detailed account or criticism of the sto
exhibited, and we confine our remarks to a general report.
horses
were largely represented in nearly all the classes the heavy draughts taking the lead in numbers, and probably in the amount of interest excited, over seventy of the animals shown in this clas
being imported, while the class of Canadian-bred being imported, while the class of Canadian-bred
draughts showed very plainly the great value o draughts showed very plainly the great value o
the Clydesdales, especially for crosing with the
common mares of the country to common mares of the country to improve the char
acter of the stock. There was also a very credit abter of tisplay of Percherons, a class somewhat new in this coun'ry, but well, worthy the attention of our farmers, pearance indicating that in many respects the pearance indicating that in many respectas the
"fill the bill" for a farmer's every-day horae, and
if they prove themeelves as well adapted for croe if they prove themselves as well adapted for crose-
ing with other stock, they will soon be much sough ing with other stock, they will soon be much sough
after. The lighter classes were well represented arter.
especially the roadster classes, but we noticed a
lack of the lofty, large-sized carriage horse, and lack of the lofty, large-sized carriage horse, an
could not but think that something of the type o could not but think that something of the type of
the "Cleveland Bay" is much needed to fill this want.
cattle.

The rings in which the different breeds of cattle were exhibited in competition for the prizes, excellence, and visitors showed, by their close a tention to certain rings, just
their interest was centered.
The Shorthorn class being most largely repre sented in the show, as it is in the country, wa
surrounded by a large number of the leadin surrounded by a large number of the leadin
breeders of the Province, who sharply criticise the work of the judges, who, in this case, wer certainly competent men, but who seemed to
often to forget that their reputation and that it was the animals they were called to pass judgment upon, and not the owners. T. have seldom heard so many expressions of dissatio.
faction with the awards, not only from exhibitore but also from disinterested on-lookers. This re mark arplies especially to the class of yearling
bulls and the herd prizes, and there were those bulls and the herd prizes, and there were thos
among the spectators who did not hesitate to express the opinion that the first prize in the former ring was given more with a view to the position
the animal might take in the herd ring than on account of any individual merits of his own ; and with regard to the decision in the competition for herds, the most charitable comment we have heard
was the expressed hope that the committee acted was the expressed hope that the commitee acted
conscientiously. In this connection it may not be out of place to remind those who are called to fill the important trust committed to judges that they
have to run the gauntlet of an intelligent criticirm have to run the gauntiet or an intersgent crat inm
on the part of their brother breedera, and that they
cannot afford to disregard $i t$, or to be indifferent -

## THE FARMER'S ADVOCATE.

out only three herds, representing there different
breeds ; the Shorthor her of Messs.
 Salem, the and the Hereford herd of Mr. Stone,
of Guelph,
of Guelph. These made a very pretys as well as of vuelph. iposisge show. The julges were to be be,
a ver
"the judges of all the catule classes oombined, "the judges of all the cattie classes coe time for
the vote to be by balt, but when the the vote to be by bailot, bix judges could be found,
competion arived onl
and as most of these were interested in Shorthorns, cond as most of these were interested in Shorthorns,
and and thas hardy expected that on yon but
itw
Shorthorss would win, though it was but fair to to say that apart from any prejucico or interest, the
would have been up-hill work to get over the woold have herd shown, and the
Shorthorn her
namimous vote for the Shorthorns.
sherp.
The exhibit of sheep was a very large one, all the breeds being iarity well reptese fact that several
largely pred ominating large importations, aggregating over three hundren head were brought in inect from quaran andee, an
most of them for sale This fact hall tendency to create the impression that the country had gone into the breeding of Downs wholesale,
closer examination it was found that there were closer examination the show in those classes that
very few sheep in that
hred in Canala, certainly not more than were bred in Canada, certainly not more than
wenty per cent., and we believe less than that twenty
proportion.
proportion on ture of the show is fast leading to the demand for separate classes and prizes for Cana
din bred sheer as our Canadian breeders find it almost impossiine to compete with the prize ani-
mals from the Roval and other shows in England mhich are being imported from year to year, fed
mat and fatted as only the English inepherd, wha our
votes all his time and skill to it can co votes all his time and skines classes ane concerned
exhibitions, so far as thest are not what they are intended and supposed
are namely an exposition of the products of this be, namely, an exposition of the promentish sheep,
country, but that of a collection of End of of the sea. country, but hate an the other side of the sea.
berd, fed and fited on thent discountenance We would not for a moment discountenance or
Wiscourage the importers of fine stock, to whose discourage the importers is deeply indebted, and
enterprise the country enterprise the coontry,
who have done incalculabe eservice at great risk
.ind in improving the stock of this country, but woure-
make distingt classes for imported and for home make distinc
bred sheer.
Cos
bred sheep.
Cotswolds were out in small numbers, only three exhibitors competing, and Jomes Main taking only half a dozen each; Mr
ing the bulk of the prizes with his inted flock, inghe included several of the prize winners at the Royal show.
Leicesters
Leicesters and Lincolns were numerous, and
more home-bred sheep were shown in these classes than in any others.
Southdowns made a rich and rare show, and
believe largely increased their list of friends.
 numbers, and there were many
 quality and in very high condition and finish; quare were only two or three exth dis in this class,
there and the prizes were principaly and Teeswater.
the Messrs. Arkell, of Guelph and the Messrs. .rereile ir orested only hy two or three
Merinos were exhibitors in small numbers, and of very moderate quality.
hoas.
The show of hogs was not as large as usual at the Toronto fair. Exhibitors complain that the come out in force, the prizes being quite out of
proportion to those offered for other classes of proportion to those offered for other classes
stock, when the ocost of preparation and transportation is taken into account, from the fact that they have to be carted and hauled drom pace th place
in carts or drags, for which exoritant charges are in carts or drays,
often maide the consunence is a great many
ond empty pens and a moderate show, where the wise
expenditure of a few hundred dollars would call expencture of a interesting display.
out Rarge and
The erirshires were out in thergest numbers and
and of excellent quality, the nessro. sinh ong the herd
ton being the largest exhibitors, winnit ton, being the largest exhibitors, winn of the her, of
prizes as usual ; Messrs. Sorby prizes ab eing the next largest exhibitors, followed
Guelh, ,
by Messrs. McNish, of Lyn, and Hogana, of King, and others.
In the class of Suffolks the old standard exhibi-
tors, Main, of Milton, Featherstone, of Credit, and Franks, of Caledon, were on hand with strong ex

Ones. Essex and Yorkshires were out in lieser
numbers but of fair quality.
numew
ment menen of Poland Chinas were shown by Mr. Bal
win, of Essex, and Mr. Ware, of Hamilton.

## The Provincial Exhibition.

## Which has just been held in Guelph, has been a

 grand sucicess as far as the exhibit of live stock could make it. Guelph being located in an excellent agricultural district, where roots are raised to a greater extent than in any other part of the Dominion, excellent herds of cattle and licks ofsheep are driven a long distance on account of thehonor that has been attached to winning a Provincial prize. The exhibit of stock has been pronounced by many to have been the best that has ever taken place in Canada, despite the fact that some of our very best herds have not been repes agricultural imple. ion this year. The $A$ very excellent show of ents was very goor. An th eenon. Thedisplay fuit was made, cots was the worst we have seen for years. The show of grain was most meagre, nd hed it not been for a few good ramples, it would have been simply disgrace ful to a county exhibition-dirty bags tied up, dirty samples, and but very little of it. The greatea exhibit of wheat in the straw was made hy the Mode or Experimental Farm of Ontario, and a viler lot of rusted straw and shrunken heads was not before displayed at any exhiotion. Tho reshis of common culture, moderate man his manuring wre sliw, judging from the appear one wout bow, to conider that the greater the ance of for manure the greater the amount of rust in the straw and the smaller the head. In a oorner of another building, a long distance from the one in which this grain was shown, there was a really very fine exhibit of straw and grain, sent from Thunder Bay and Algoma. The straw and heads of grain really made a grand exhibit, although only a small quantity was sent whe compared to the exhibit from the Model Farm, These two samples shown by hgoma and Ontaro should be preserved by the fencs colors, notwith. they cary or tho plat standing in the enormous space allotted ma in comparsent.
to our Government
The alrangents for the reception of the stock were most incomplete. The men were shifted about, nd cattle were mixed together and one would have to walk all over the ground before seeing all that were exhibited in any particular class; and there was not bedding sufficient supplied. But the worst feature was that, despite the scarcity of room, and much of the exhinition stock had of necessity to be kept out of the grounds, there was a very large space occupied by the Model Farm stock, which was to be sold by auction on the last day of the exhibition. These animas, awned by the regular much inferior to allurement to purchasers and pre. ented our breeders making the sales they usually o at this exhibition. They considered that they ere paying a tax to support this institution and No doubt the directors had short-sightedly thought to increase their popularity by getting the stock on the ground and getting the gate money from those who wanted to purchase. They are to be condemned for not looking first to what is of bene fit to their patrons, that is, to the exliblors of stock, for without them what wold for tion be? Had this Board looked arst acted differ interest they would and should ave acted differ

October, 1883
THEE FARMER'S ADVOCATEE.
ently. Is this the proper step to take for the encouragement of private enterprise? We entered the main building and got a pretty解 squeeze by the crowd that was trying to aw the great inconvenience and even danger of this plan, and took the trouble to go to the President and ask him to have proper ar rangements made so that the peop e would only pass one way. That business did not belong o him-Mr. So-and-so must attend to that It was not our place to hunt up this subordinate but we spoke to another member of the Board an M. P. P. He slighted the suggestion eve worse. We gave them no more suggestions. One of the most interesting exhibits in the main ulants made by Mriay . the High Schol at Elora among which was a fossi tooth of an elephant. This tooth, which weigh 20 tbs ., and a pair of tosei tusks weighing 200 tbs , were found at the mouth of the Grand River
It had been announced that a trial of implements was to have taken place, but this part of the pro-
gramme did not come off. Of course that was no boly's bu iness, but there were some who had come specially to see that trial, who should hav had their expenses paid.
Scattered through the exhibition ground, in the midst of the stock, between and around the machinery, and everywhere, were to be found side
shows, tents, quack medicine vendors, "Aunt S.llies," shooting ranges, jewelry vendors-any-
thing and e erything that should not have been thing and eierything that should not have been aliowed in the midst of the exhibition.
But the greed for cash by the Board of
隹 Directors was so great that notwithstanding
the $\$ 10,000$ grant, such despicable means the $\$ 10,000$ grant, such despicable means
to get pelf were resorted to. We have
touched $\begin{aligned} & \text { on } \\ & \text { this before, and }\end{aligned}$ think that tose members who sanctioned such pro-
ceedings as we have and can yet depict about this ceedings as we have and can yet depict about this
exxibition, should be strictly called to account; and
those who cannot justify themselves should ve rethose who cannot justify themselves should ve re-
moved from office. We know too well the devices moved by members of this Board ; they will each try grounds were not half large enough to accommodate the exhibitors and visitors, and they knew this. Then why let it be taken up by showmen, vendors,
and auction sales, to the detriment and hindrance of the proper purposes of the Provincial Exhi-
bition,
which
should pattern for orthers. We pity any town-
ship exphibition that attempts to follow such a siandard bearer. Why, in the horse ring we saw
horses standing that had been exhibited, but the first prize ticket was placed on an unsound animal -so unsound that it could be detected a quarter of a mile away. In grain the highest prizes have
besn awarded to wheat that is the most unprofitbean awarded to wheat that heard one director ask
able to raise. In stock we heard a partizan friend, when stock was being exhibited,
which was his animal. That animal by some which was his animal. That animal by some
means was awarded the prize. (Don't ask too much!
The annual meeting of the Board of Agriculture and Arts was held on Wednesday
evening. The power that was once placed in the evelegates' hands is now taken from them, and is vested in the Board, and to such a low ebb has the Provincial Association descended that the great
business of the evening consisted in a resolution being moved by one of the oldest members of the Board to ascertain the opinion of the meeting as continued another year or not. We believe that the present Minister of Agriculture desires to do
what he can for the benefit of agriculture and for what he can for the benefit of agriculture and popularizing , he has stepped into a chaotic slough,
Agriculture
from which time alone can show whether he can fring order and good out of it or not. It is no
the expenditure of money that must do it ; ther is and has been enough of that already. It is the expenditure of brains that must do the good.
We met the Hon Jas. Young on the grounds. We met the Honla flattering terms of your He spoke
journal, the FARMER's ADVOCATE, admitting it
be the best be the best agricultural journal in Canada.. As he
has been a subscriber for many years, he has had
an opportunity of judging of its merits. $\left.\begin{array}{l}\text { He ex- } \\ \text { pressed himself as desirous of making the Model }\end{array}\right]$ Farm more beneficial and popular than it now is The farmers' interests would be the first and main object we wished to obiain information about,
and he at once endeavoured to gain it for us, putting himself to some inconvenience for that purpose. Many have erroneously looked on our writ ng as being opposed to the Provincial Exhibition
and the Model Farm, because we have exposed some of the mismanagement of these institutions Our object in doing so is that they should be im-
proved. $1 t$ is the continuation of mismanagement proved. It is the coutinuation of mismanagement
in them that has tenged to bring them both into such low repute, and it is to improved managenent alone that, we must look for the popnlarizing
of these institutions. We are ready and willing to lend our aid to their improvement, and we know that all our readers would desire this. You have the opportunity of expressing your approval
or disapproval of our attempts, both in our columns and in your support. If errors exist and they are not amended, you have yourselves to
blame, for we never decline to publish our conblame, for we never decline to publish our con-
tributors' opinions, even though they may differ tributors opini.
from our own.
from Sur own. made one improvement, and that
The Socity furnishing a catalogue of stock exhibited, with the owner's name.
In the exhibition of sheep, we noticed that several had their fleeces col stance This coloring iod not prevenl $\begin{aligned} & \text { Whing should } \\ & \text { taking prizes artifial coloring } \\ & \text { We allowed or not is a question that should receive }\end{aligned}$ be allowed or not is a question that should receive
the attention of the Provincial Board. Our the attention of the Pro
opinion is that it should not
The Directors had caused the allurement to be held out that the electric light was to be seen In the evening an attempt wrounds, so as to compel them
the visitors off the gre to pay another 25 cents each. They succeeded in
driving some out, while others would not go Guelph is a good place in which to hold an oxhibiton, the accommodation for visitors being
better than we anticipated, and the Exhibition was
-
The Government Sale of Stock Took place on the Friday, the day that stock men gen erally expected to make sales on the ground. It were some good stock sold, consisting principally of Polled Aberdeen and Hereford cattle. Some at higher figures, although to the common farme the prices offered for some seemed fabulons. Fo instance, a Polled Aberdeen calf brought $\$ 650$ while the principal part of the other stoc sold was not such as our breeders of first-clas stock wanted, still there were many grod beast that would impre were not as good as the cattle The Cotswolds were considered good, but the The Cotswolds were considered go they wanter.
quality of the wool was not what
We met one good breeder of Cotswolds who came a long distance on purpose to purchase
ant after examing the best, said he would not pu one of them on his farm. The sale was considered an excellent one by stockmen, judging from the
guality of the animals sold, and with very few ex quality of the animals sold, and wieivery quality
ceptions high prices. were recied, quer
being considered. The stock was sold as adver being considered. The stock was sold as aiver
tised, without reserve, and the attendance of such value being offered, as many beginners and specu lators were there
The stock was the surplus of the farm and animals which had to be sold to make room for fresh im.
portations. It comprised two hundred and sixty portad of fifteen distinct breeds of cattle, sheep, pigs,
heal
and dogs. The sale began with Mr A. Taylor, of and dogs. The sale began with Mr. A Aay
Guelph, as auctioneer. A large crowd of buyers and others interested densely crowded around the ring, and stood hour after hour, catalogue in hand, noting the progress of the sale or putting in bins.
At times when a famous animal was offered excitement ran high, and bid after bid was rapidly made amidst the very perceptible flutter of interesten
spectators. Eight Shorthorn cows or heifers and spectators.
one bull calf sold for $\$ 1,101$. The six Hereford
fill females and a bull sold for $\$ 1,775$. In Aberdeen Angus Polls, of was very keen
the competition wast of the animals were bought by Americans. Donside Lass, a
heifer, went for $\$ 525$ to Geary Bros, of London
Meidrum, a three-year-old bull, sold for $\$ 700$; and Meldrum, a three-year-old bull, sold for $\$ 700$; and raska purchaser at $\$ \$ 50$. The prices paid show
the success attained at the Farm with Aberdeen Polls. The four females of this breed realized to Polls. The four females of this breed realized to
the Farm $\$ 1,545$, and the two bulls $\$ \$ 1,250$. The
four Devons brought $\$ 351$. The Ayshires being four Devons brought $\$ 351$. The Ayrshires being
either very old or very young, did not sell at large either very old or very young, did not sell aling for
figures. the five females and four males selling for
$\$ 666$. The Jersey cow brought $\$ 205$, and the bull $\$ 666$. The Jersey cow brought $\$ 205$, and the bul
calf $\$ 102$. The 18 grades sold for $\$ 1,212$. Of fat calf $\$ 102$. The 18 grades sold for $\$ 1,212$. Of fal
cattle one only was offered, the White Duke, a cattle one only was onfered, the harthorn steer of two years and four months,
Shorthorn
with a weight of 2,010 nos. The price paid was with a weight of 2,010 mbs. The price paid was
$\$ 270$. The 56 head of cattle brought in all $\$ 8,477$. The following are the cattle sales :-


 нвRहтовDs.
 "Princess Mary 4th," W Howitt, Guelph, \$230":"Lithle Ledydy,
Dr ANorris, Spencer, N Y,







## Live Stock at the Provincial Exhibition

As was generally expected, the holding of the As was generaly expeca, great stock contre as
Provincial in such a Guel ph called out an very keen competition. In. ceed, we believe it was the general opinion, that as an agricultural and stock exhibition Prata. Preparations and pro-
been equalled in Canada. visions for stock were made on the basis of the
argest exhibit of former years, and allowance made or an excess over this, but it was found that after all had been done, the accommodation was entirely nadequate and the management
to run up some four hundred feet of extra cattle This sheep sheds after the opening of the extly due to an unfortunate blunder on This was partly due to an alloting to the Agricul-
the part of ine allote two large sheds for the accommodae the call College two large sheds for the accommoda
tion of the stock catalogued for their annual sale, tion of the stock catalogued for their ans held on the grounds, thus throwing ex hibitors out till the extra accommodation was pro
vided This very naturally caused a great amount vided. This very naturaly cauad a greage on ex hibitors who make the show. Another cause of complaint in regard to the management was th insufficient supply of straw for bedang for the
stock. It is a great mistake for the superintenstock. It is a great mistake ior the ape to mak.
dent to adopt a niggardly policy in respect ing the stock comfortable and keeping them clea,
and d ,es more to sour the minds of exhibitors than and d,es more to sour th.
almost any other cause.
The show of horses here was even larger and The show of horses here was even larger and
better than at Toronto, great as it was there, some
thing over a hundred animals coming here from the west which were not at roronto, and many on dales were again in the majority, and made a very grand display, but there was a much better repre
sentation of both the agricultural and the carriag sentation of both the agricultural and the carriag
classes at Guelph, where the heavy draughts hav classes at Guelph, where the heavy draughts have
not been so much sought after till recently. The
judges in these classes, we believe, on the whole, nougees in these classes, we believe, on the whole,
made fairly good work, though it was thought by made fairly good work, though it was thought by
many competent critics that both in the sections
for four-year-old and three-vear-old imported for four--eear-old and three-year-old imported
horses, decisions were made that might well be re horses, decisions were made tat might wed
versed without doing injustice to any one.
cattle.
The Shorthorn class here was supplemented by quite a number of good things which were not at latter show that were not here. Conspicuous by
its absence was the lst prize herd at Toronto, and its absence was the 1 st prize herd at Toronto, and
which was entered for the Provincial as well. The पuestion was frequently asked, Where is the herd
that was placed first at Toronto? and "echo that was placed first at Toronto? and "echo
answered, Where 9 "The Prince of Wales' prize of
and sixty dollars was here offered for the best herd of Durhams, a prize well worthy of competing for, amounting to more, both in money and in fame,
than anything offered at Toronto, and it would than anything offered at that the owners of the winning herd at the latter place would have been ready for the pay again, and anxious a a
their laurels the Prince of Wales' prize, but they seem to have thought it safer to act on the principl that
"He who fights and runs away, may live to fight another day. We believe the judges on the class of Shorthorns,
at Guelph, besides being tolerably competent men, at Guelph, besides being tolerably competent men,
were actuated by a desire to do right, and that they judged the cattle to the best of their judg ment of their individual merits, and if in a fee cases they erred, as
stockmen thought they did, it was more a matter of difference in tastes, or, perhaps, from the fact that in some cases a view of the animals from the outside of the ring gives a better idea of the
general make-up than can be got in a crowded ring, where the animals are so colose together that a good side view cannot be obtained Here the
prizes in this class were divided between the prizes in this class were divied Hunter, McQueen, Dryden, Armstrong, Fothergill, Green, Snyder and others, the
first named gentlemen being the largest exhibitors and winning the largest number of prizes, including the Prince of Wales' prize, for the best her best bull of any age was awarded to Messrs. Watts' aged bull, "Barmpton Herd," a decision from
which many of the breeders were disposed to diswhich many of the breeders were disposed to dis-
sent. The old bull, no doult, las been a good one,
and is yet a good one for his age, and has made a and is yet a good one for his age, and has made a
good record as a sire, but he has evidently seen his good record as a sire, but he has evidently seen his
best days, and there were first prize bulls in the yonnger classes that might well have been placed
before him, and the decision, we think, would before him, and the decision, we Inink, would for two-year old lolls' the decision at Toronto was reversed, Mr. Creen's "Earl of Mar" heing placed
first, and Mr. Fothergill's "Prince James" second, first, and Mr. Fothergill ${ }^{\text {we }}$, believe, without doing violence to fine judg. ment, though both are so good and grand, we may say, in their widely differeit styles, that it is much
a matter of taste which should win. Mr. Dryden's a matter of taste which should winl. "Mr. Dryden's
excellent young Cruickshank's bull, "Lord Glamis," excellent youno first in the yearling rings, as he
deservedly won
should have done at Toronto, the winner there being should have done at Toronto, the winner there being
prudently left at home as the safer place for him prudently left at home as the so larger place filler as at Toronto, but were even more select, and the
prizes somewhat differently distributed, the first prizes somewhat differently distributed, the first
prize going to one that did not get a place at prize going to one that prize calf there got no place here, which was clearly a difference in judgment, a not unusual thing in this ring, where so many
good ones are shown, and the diversity in age and good ones are shown, and the Miversity in age and Alma, who did not show at Toronto, made a good show of calves here, the get of their imported
Booth bull, Socrates; and many were of opinion that they should have got a better place than third in the bull calf and heifer sections.
The sweepstakes for best Shorthorn female of
any age, went again to Messrs. Snider's superb three. year-old cow, and the diploma for best four calves by one sion
Barmpton Hero
In the Jersey classes the competition was again
between the herds of Mhi dulder and Mrs. Jones,
with very few exceptions, and here the three
judges made sad havoc with the work of the American expert who placed them at Toronto ; the third prize cow at the latter place being put first here,
which, by the way, was Mr. Cooper's judgment which, by the way, was Mr. Cooper's judgment
also, as he said in his report, but for what he con-
sidered a defect in the appearance of her hind teats sidered a defect in the appearance of her hind teats when her udder was full, but which does not show
when it is not distended. The herd prize was also when is not distended. The herd prize was also
reversed, going to Mr. Fuller here, but Mrs. Jones
was made happy, on the other hand, by her yearwas made happy, on the other hand, by her year-
ling bull "Florist" taking first place for sweepling bull "Florist" taking first place for sweep
stakes over the far-famed "Thalma," and the
poungster is certainly the coming show bull, if he youngster is certainly the coming show bull, if he
has not already co to to stay in that position; hi oft, way ahead of anything we have seen or felt in
ar awn far away a.
that line.
In the ot
In the other breeds of cattle the competition was
almost entirely the same as at Toronto, and ex almost entirely the same as at Toronto, and, ex
cept in the Ayrshire class, the prizes were placed nearly as they were there, a good many changes being made in the decisions in Ayrshires. Galo waybers, this being the home of the two larges herds of these respectively in the Province.
A report of the cattle would be incomplet A report of the cattle would be incomplete if w
did not notice the grand show of fat steers, Short horns, and their grades, shown by the Messrs.
Groff, McQueen and John Russell, the latter show ing a pure bred Bates' heifer, weighing 2,200 lobsand the first named firm a cow of wonderful quality
and finish.'besides a credit to any feeder and to any show in the world.

## The sheep show at the Provincial was probably

 The sheep show at the Prongcia Canasa, and intespect to quality and metherit it in is not too much to respect to quality and merit it is not too much to
say that it was strictly first-class in all the breeds say that it was strictly first-class in all the breed
represented, excepting only the Merinos. The
Leicesters being near home, turned out immensely, represented, exceperin hooe, turned out immensely,
Leicesters being nat
and the Downs were about the same as at Toronto, and the Downs were about.
as also were the Cotswolds.
made a larger and a better show than at Toronto, owing partly to a more liberal prize list, and partly
to the fact that a good many local breeders came in to try their luck, but with very few exceptions the prizes went where they did at the Toronto show
and exhibitors made few complaints against the judgment dispensed

Special ©ontributors.

## English Letter.

Liverpool, Sept. 17th, 1883.
The Canadian cattle trade has just undergone severe ordeal, and I do not hesitate to say that but for the exertions of the Dominion Agent General, Sir Charles Tupper, and, in scarcely an inferior degree, of the Liverpool agent, Mr. John Dyke, it
would have received almost a fatal blow. As your readers are no doubt well aware, Canadian cattle and Canadian cattle only, have now the privilege of entering this country alive, and being moved from market to market according to the demand of trade. All the States cattle, and those from the continent, have to be slaughtered in the lairage frequently, and especially in hot weather, of the most irksome and serious character: a temporary glut in the market involving the importers in heary losses.
The cattle trade generally, and with it the Can adian live cattle trade, has been considerably de pressed of late, and I hear on good anthority that privilege enjoyed by Canadian cattle is so valuable that any menace to it was a matter for seriou that the Dominion steamer "Lake Nepigon," which brought some 200 head of Canadian cattle which had been detained by order of the Privy Council Inspector here, Mr. Moore, on suspicion of splenic fever, the greatest consternation prevailed through out the trade. The Privy Council in London a once sent down one of their chief Inspectors, who
which had been slaughtered. He at once exploded the idea of the terrible splenic fever, but declared in favor of Texan fever. Sir Charles Tupper, with whom Mr. Dyke had at once communicated, saw fiat, hories and obtained a, withholaing an in fiat, which would have declared Canada an
fected country until a further investigation had taken place. Eminent veterinary surgeons were summnned from all parts of the country, and on Monday, the 27 th August, a thorough the "Lake and examinatio of cargos of Canadian cattle which had arrived in the meantime, was made by Sir C. Tupper, essisted by the Government In. spectors, Mr. Dyke, and the eminent veterinary authorities who had been called in. The result was a complete vindication of Canadian cattle from all taint of disease, and the only justification for their detention was declared to be some little irritation caused by the drinking of condensed water on board ship, and the other adverse influences of a summer royage across the Atlantic. The escape was a narrow one, for if the representatives of Dominion had not been so prompt and energetio Privy Coction, held an the reports of their inspectors, erroneous though they were, with most disastrous results to a trade which is already suffering some depression. During the past week the Royal Manchest Liverpool and North Lancashire Agricultural Society, one of the most important in the provinces, has been holding its show in Newsham Park in this city. It lost much of its interest, however, through the withdrawal, at the last moment, of cattle, sheep and pigs, consequent on the preval ence and rapid spread of foot and mouth disease. The show of hors classes ; proving that, notwithstanding the large export to la stock left. A conspicuous feature amongst the general exhibits was the highly interesting stand under the supervision of the Dominion agent here, Mr. Dyke, which received a special visit from Lord Derby, the Colonial Secretary, who expressed himself much interested with the evidences before him of the resources and inustries of probably the most progressive section of the Empire. Mr. Dyke was awarded by the judges a silver medal. The distribution of sure at the stand reached en for Canor chese Special prizes whe ough this was extensively nade kno in the Dominion, not a single exhibit was made. Where is your enterprise?
The vicissitudes of the season from a farmer's tandpoint, have, in this country, shown but little mprovement on the long series of bad years which have ruined thousands of British agriculturists. The spring was too dry, the summer too wet, and the autumn, so far, has been too uncertain; two or three fine days and two or three wet ones, al ternately, with a perplexing regularity. A fort night's fine weather in the latter end of sugust nabled farmers with machinery, in the earilier histricts, $g e t$ arge labor has mainly to be depended ond in all the later districts, the outlook is most unpromising. The potato crop generally is the best for many years, but disease is beinning to show itself in many districts, and there is still time for vast mischief to be done.
I have already mentioned incidentally the outbreak and spread of foot and mouth disease in this eek, Over 29,000 head were affected lazing rapidity. There is no doubt that it is being im ported from Ireland. It is stated on good authority ported from Ireland. It is stated on good authority
thata few years ago Irelaptd was entirely frés froma

Uctôber, 1883
FHE FARMER9 ADVUCATE.
this scourge, and its re-introduction has been traced beyond doubt, to the introduction of one animal -a bull-from Liverpool, and the disease is now rampant from one districts, governed by the local anthorities in England, have now decided that no Irish cattle shall enter their localities alive. In Scotland they are still more severe, and will not Bcotland they artan cattle to stand in the Clasgow mar.
allow any Irish
kets If this continues a dead meat trade will spring up between England and Ireland; and the ouly rivals the Canadian importers markets here, will be the English breeders. An important shipment of black polled cattle
takes place at the end of this week; some 24 of the best to be obtained are to be shipped by Mr. Georg Wilken, of Waterside-of-Forbes to the ore but pro bably the most important shipment ever made to Canada is that now being made by Mr. Hiram Walk er of Windsor Ont. and, having experienced great difficulty in obtaining suitable stores he is now taking out
Aberdeen bulls. with the intention of giving their Aberdeen bulls. with the intention of giving the quiring only in return the refusal of the bull calves, the females to be allowed to remain in the district This is a most valuable step, and it is to be hoped
that Mr. Walker's example in this respect will be followed by other extensive traders, who will thu grant a great boon to the smaller farmers, w
they consolidate and improve their own trade.

## Agricultural Affairs in Scotiand.

[from our own corrgspondext.]
Scotch farmers are meantime looking forward anxiously to the coming of harvest, which this ear will be fully two weeks later than usual. There is a good promise of cereal crops, especiall of oats, after lea and barley; but what is cro termed the "clean land crop" hat light. Reapgrown after turnips or potatoes, is gig. Rcotland ing will not be genel until the second ween o a week earlier. A late
 have the con in the cold and back districts soften spoiled by frost and snow before it can be secured. Never was there a more abundant ap pearance of potatoes, of which a magnificent crop is expected, and, as yet, they appear to be quite free from disease. The greatest deficiency this year in the crops is among turnips, which, taking the average of the country, will give a very poor yield, in many instances nome mospensive crop an ordinary crop. rherefore will be very much felt, more especially therefore will be very much fell, more eip is used largely in preparing cattle for the fat stock mar
kets. Pasture has heen abundant of late, wet kets. Pasture has heen awth, and, as a conse
weather fayoring its growther
ruence, cattle will be stalled in good order nexi quence, cattey, which is fully a third below aver age, has been greatly spoiled by heavy rains, and
the crop will be sadly deficient in color, quality and quantity.
auspices of the Highland and Agricultural Society auspices of the Highland and Agricultural Society
of footland, took ppace last month at Inverness,
and although conconitant circumstances were not favarable-regtrictions on account of foot and
mouth disease in the south, bad weather and a a mouth discase locality - the exhibition was fairly
out-offe-tay
succesful, not only in regard to the quantity, hu successul, of the stock. The total number
the quality on
entries was 1,037 . The show.was weakest Clydesdale horses, which are not yet reared so extensively in the north as an gradually gaining a hold even in the
but they are but they are graduars are now finding it profitabl
far north, as farmers ane
to breed this class of "cattle," for which there is a good demand from America and the large cities in our own country. The display orthern counties,
though confined chiefly to the not was worthy of the occasion, the total entry being
72 , as zompared with the same show at Glasgow
7.
a few of the winners, were scarcely an average lot.
The prize for the best Shorthorn in the yard was The prize for the best Shorthorn in the yare was
won by a Morayshire \$reeder, Mr. James Bruce, Broraside, for a splendid one-year-old roan named
Gold Finder, bred by Mr Handley, Greenhead Gold Finder, bred by Mr Handley, Greenhead,
England, after ${ }^{\text {a }}$ noted bull named Sir Arthur Ingland, alter Finder, though rather open in the
Inde. Gold
side, is an animal of immense size and substance,
side, is an animal of immense size and substance,
weighing 14 cwt., while he is straight, well- leshed
and has a nice coat of hair. Had he been entered
for the Royal English Show at York, he would for the Royal English Show at York, he would
have had no difficulty in beating any of the exhave had no difficulty in beating any of the ex them, in my opinion, could be compared to the
ull from Morayshire. Polled Aberdeen or Angus bull from Morayshire. Polled Aberdeen or Angus
catte, of which there were 93 entries, as against cattle, of which there were 93 entries, as atare of
68 at clasgow last year, was the best feature of She exhibition, the classes being large, the merit
theil sustained, while several of the winners were vell sustained, while several of the winners were
onsidered as fine specimens of this popular breed considered as fine specimens of this poperaraps the nost notable animal of the Polled breed in the
vard was a three-year-old bull named Black yard was a three-year-old bull named Berty Mr . Farquharson, of Houghton, Aberdeenshire,
which has not been beaten this year. His symWhich has not been beaten this year. His sym-
metry and shapes are perfect, and his style, fine
meal mene and evenness of lesh, are those of a real typical "poll" In a very superior class of year-
ling bulls, Iliad (the property of Mr. Argo Cairdscot) ling bulls, 1 liad (the property of Mr. Argo Cairdscon
took leading honors, as he did also at Aberdeen, and his sweetness of flesh, nice covering above well entitled him to his place. A very massive
five-year old "Pride" cow, with beautiful corer of flive-year ond great fore-end, for which, with a calf, her
owner (Lord Tweedmouth) refused an offer of owner (Lord Tweedmouth) refused an offer of
1,000 guineas, led in a good class of cows. Some 1,000 guineas, led in a good class of cosentative of
judges thought the second best represter her
the Polled breed was a two-year-old heifer with judges illod breed was a two-year-old heifer with
the Poll
fine, arching, deep rib, great substance and wealth of flesh, and a remarkable development for her
age-named Waterside Matilda II, which was ex-age-named Waterside Matilda in, which was © was got by a "Pride" bull, Knight of the Shire, and
she occupied the front place in her class here, as she occupied the front place in her class here, a
she also did at Aberdeen. Ayrbhire and Galloway she also did at A Aberdeen. Ayrsire and Gailowing
cattle were not largely represented, there being only 28 of the former and 24 of the latter; bu
there was a fine turn out of Highland cattle, the there was a fine turn out of Highland cattie, the
total entry being 85 as anent 67 at Glasgow in 1882. In the classes for Clydesdale horses there
was a decrease of 100 entries, and the quality, was a decrease of 100 entries, and the quality,
with the exception of about 30 , was much on an average of what one sees at Glasgow and Edin burgh when this show falls to be held at these
places. The decisions of the judges of horses were places. The decisions of exhibitor was so much
much criticised, and one exhe
displeased with the unfair treatment he thought displeased with the unfair treatment hot hat he withrew all his horses he receive yard before the exhibition closed, paying
the show yat a penaly
do may
It may
It may interest some of your breeders to learn stamped out in the northern counties of Scotland -Kincardineshire and Aberdeenshire, Banff airn, Inverness, and
of Inverness being free.
Aberdeen, Aug. 22nd, 1883.
A Chatty Letter from the states
yrom our chicago correbpondent
Fairs and agricultural displays of all kinds are active operation throughout the country. There are some who are of the opinion that forrs to the gricultural ort ; that more attention is paid to horse jockey, pool selling and various catch-penny and advertis ing schemes, than to the forwa

## interests of the agriculturist

It is a lamentable fact that the real object the bettering of breeds and methods, the exhib tion of improved implements, and the elevation tandards of excellence all along the agricultura line-it is painfully true that the real object is ften set aside, and made secondary to the inter ests of the large olass of professiona gamblers a. dead-beats wh
their coats on.
The tondency of faira in toe much to fast horse
racing; we need fast trotters, but far more does he general country stand in need of fast walkers. How many horses are to man. That is somehing they oug. Nor tacks excient is not encouraged by the etting fraternity. It is something, however, hich ought to be attended to by the managera of air associations. Trotting and walking bear bout the same relation that pretty parior accomplishments bear to thorough knowledge of house eeping ; the former are highly desirable as ac complishments, and for use on occery day.
Our girls must have the pretty parlor accomtheir owin the buggy or under aaddle, bat the girls must first become proficient in the knowlodge of household economy, and the horses must be at their best before the plow or load of grain.
The one-judge system at fairs and fat stook shows is apparently gaining in favor in some sec. tions; it is argued that one thoroughly competent judge, one of some reputation as a judge, and one perhaps who will require a big salary for servicos, will be more generally satisfactory than a larger number. At a poulry ox of $\$ 20$ per day and expert judge was pal the premiums. It reems ree. expenses to award the pros it easier to get one sonable to supposenty judge than five or three, or larger number, and while some object to one man having so much responsibility, it is an indisputable fact that when any number of judgen is pass sing upon an article or pen of stook, the decisio of the whole often depends upon a single one. But after all, a judge to please everybody would have to be one who had ble estow upon every entry.
In Texas a very fevere drouth has been experi nced this summer in the losses to stookmen portions an been very great. Many shee en have become discouraged, and before the re ent heavy rains which gave the range its wonted color of green, and refreshed the dried up stroams there were many who either sold out at a sacrifice, or moved their flocks to pastures new. The on great want on the plains is that of water. This coo, is a want, when it is wanting, the railroad hardest of all to supply. Howe of artesian welle ompanies are able by che sever they want it, and it have water about wherever "Staked Plains" in Texas, which are as dry as Sahara in this kind of summer, can eventually be reclaimed by the in roduction of these wells. At preseut, while there is such a vast amount of unoccupied territory, tockmen do not seem inclined to go to the heary expense of supplying water in that way
It is an old Spanish proverb that "short grass makes fat cattle." The truth of this old saying
has been very clearly demonstrated in the west. This year, particularly on the far western plaina, the rain fall has been heavy and the growth of grass about the heaviest ore fears that the hay will not have time to properly cure for winter feed, and yet the cattle are fully two months later than usual in getting to market, and are generary have fattened in a way that does not last till they have travelled a thousand miles
They are soft and "shrinky."
A vast amount of hay is being cut on the plains
and stacked for winter use, and a great many of the ranchmen have become so discouraged with the method of marketing grass beeves, winch
pels them to crowd their catte to market in grea peis them to crow fall of the year, and gives buyert
numbers in the
auch great advantages, that many have provided


came and purchased his entire stock of show Cots.
wolds that he had prepared. The family are inwolds that he had prepared. The family are in-
dustrious and careful, and have devoted their atteution to raising the best class of sheep for half a century, and have done much good to Canada by heir exertions; but they complain very much Model Farm, and say that inferior stock has been sold there at lower prices than their good stock could be raised for, and that it has injuriously
affected their business. We wish prosperity and success to everry independent, enterprising farmer
and hope that Mr. Arkell will long be known as and hope that Mr. Arkell will long be known a
avorably as a breeder as his father has been. favorably as a breeder in the engraving are all
The animals shown in the firted stock. The first is the ram, Duke of imported stock. The first is the ram, Duke o Hatherop, tag $2 \overline{3}$; the second is the three-shea
ewe Lady Oxford, and the third the yearling ew ewe Lady oxioro, and the third the yearing ew Hatherop, Fairford, Gloucester, England. These
sheep were highly commended at the Royal, of sheep were highly commended at he royal,

England, in 1882, and since they have been in the country have taken first prizes at Toronto, King ston (Provincial), Guelph (Provincial), and Londo | made fat now it will be much easier to continue $\begin{array}{l}\text { The Oxfords have been a distinc anreed } \\ \text { them in good condition through the trying winter. ? land for upwards of sixty years, and were origin }\end{array}$ |
| :--- |



A THE PROPRRYY OF
cept by irrigation and at great cost. different. In
In the southwest the lard laws are
and exas the land is owned by the State, and any quantity can be purchased and fenced at will. Bu he fences are not so easily kept in place, for ther is a great antipathy to them sy a arge number want to have their water privileges cut off by wealthy corporations; in consequence there ha been a great deal of wire cutting, and no end of
trouble for the huge companies which fence in hundreds of miles of territiory, and debar the small fry from the water and rang
which they have hitherto enjoyed.
which they have hitherto enjoyed.
There is a very marked tendency in the west to There is a very markentration of capital in stock-raising. The powerful corporations that have been formed are a menace
means. hour in the far west. Ranchmen have seen the
success of shipping beef from Chicago to the sea and beyond in refrigerator cars, and they argue with much reason that if it is profitable to cut off one thousand miles of the live animal's trip to
market, it will be profitable to cut off two There

## Mr Henry Arkell's Farm

 The above illustration was drawn by our artist The above illustration was drawn by our artist A correspondent to a contemporary writes of them on Mr. Henry Arkell's farm, situated four miles is always ready for the knife, from early lambhood from Guelph. The land is rolling and some of it to adult wetherhood. The Southdown or Hamp inclined to be shaly, having flat stones, though market, but I think there you are close to a good not sufficient to injure the land. Mr. Arkells $\begin{aligned} & \text { sheep that excells each of the others named in size } \\ & \text { father was one of the oldest settlers; he erected }\end{aligned}$ ather was one of the oldest settlers; he erected early maturity and hardiness of constitution, in more farm buildings on this farm than we have aay of the other Down breeds and fhece tha seen on any other. They were small, but com- $-\begin{aligned} & \text { any of the other Down breeds, and that is } \\ & \text { Oxfordshire Downs. I have proved this to my }\end{aligned}$ fortable, and answered an excellent purpose. He own satisfaction, having handled all the breed had one of the finest flocks of sheep we had ever of Down sheep, but none with as much success an seen in Canada, used to raise large crops of turnips, breet of sheep, and think the Hampshire an condit deal of rape, and kept his sheep in fine Southdown both excellent breeds. What is wante condition. He did much toward giving Guelph is the general-purpose sheep, and for all purpose still continues to raise the Cotswolds, and has general farmer. They are heavy wool producers, now added the to raise the Cotswolds, and has general farmer. They are hoavy ewes having aver obtained such a name that Americans. purchase 16 ths. $12 \frac{1}{2}$ ths. this year, and our rams as hige hatal ewes in our flock that most of his stock. He had a very fine lot of weighed 250 tbs. at fifteen months old. The breeding stock when we were there, and also a Oxfordshire Down is ready for the knife from alarge lot fitted for the Exhibitions. An American lamb of twelve weeks old to a she ep of any age
even the old ewes, when too old for breeding,
fatten rapidly. They cross splendidly with any $\begin{aligned} & \text { connected with the farm is for the breeding and } \\ & \text { improvement of Shorthorss. When the attention }\end{aligned}$ fatten rapidly. They cross splendidy with any
breed, and there is none but what they will improve. They are well adapted to any country or
climate. The demand for these sheep in England from other countries is greater than can be ssupplied; nearly one-third of the Oxfordshire rams
going to Germany this year to cross on the Merino, going to Germany this year to cross on the Merino,
besides a great many going to Scotland, America besides a great many going to Scotland, America,
and other countries. The price of these sheep is advancing every year, owing to the great demand.
This year's ram sales were much higher than those of last year in England."

On the Wing.
On the 6th Sept. we alighted on the Bow Park farm, situated in the county of Brant; it is about three miles distance from Brantford, op the west bank of the Grand River, which borders the sstate for many miles. Upon this farm the late Hon. George Brown attempted to build up the

## Stock.

 <br> \section*{Combining Different Fodders. <br> \section*{Combining Different Fodders. <br> Combining Different Fodders.} It is customary on many farms to feed the cattle antirely on ont that is gone, and then begin on an ther kind. In case clover alone is fed, the animals eceive a much larger amount of proteine or albuminoids than their systems require, and consequently the excess is thrown off in the manure and wasted. If, instead of feeding on clover entirely, portion of straw, poor hay, such as that grown on wet meadows, or cornstalks, were mixed with it, the cattle might be maintained in equally as good condition at a less cost, some of the poorer kinds of forder being well illustrated by an experiment made at Moeckern, in Germany. Four periment made at Mere fed during a period of several week:

ords) in this or any other country. The farm is more healthy stock than can safely he procured with all the green clover they would eat, amountwords) in this or any other country. "The farm is more healthy stock than on any farm in the States, and animals having the ing to 123 pounds per day, containing five and six. West Farm Stock Association." Mr. John Hope best pedigrees, and this without any tax on the tenth pounds of albumnonsher period they were
is the manager. We understand that Mr. Brown's people to support it. We wish the Association, carbo-hyrates. During another
fed with 87 pounds of green clover and six and is the manager. We understand that Mr. Browns
family have but little interest in it at the present family have but little interest in it at the present
time, the principal shareholders residing in Great
Britain. The estate consists of 900 acres, 500 of Britain. The estate consists of 900 acres, 500 of
which are in pasture, and 400 under cultivation, which are in pasture, and 400 under cultivation,
40 of which are planted with roots, and another large portion is used for growing green feed for
ar soiling purposes. A large number of the cattle,
especially the bulls, are kept in the stables all the specialy the bulis, are arept incesion of green crops are arranged so as to have a constant supply from early spring till
frost destroys vegetation. By this method of frost destroys vegetation. By this method of
feeding the stock can be matured in about half the time that it takes an ordinary farmer. The manager appears to thoroughly know his business, and has
a lot of first-class Shorthorns such as the best a lot of first-class Shorthorns such as the best
breeders would like to have. His attention is dereeders would like to have. His attention is de-
voted entirely to this class of stock; he has all the
neeessary conveniences and keeps everything in necessary conveniences, and keeps everything in
order, leaving all other breeds and classes of stock and outside speculation to others, and everything people to support the stock every success. Every Canadian who visited the Chicago Fat Cock Exhibition, last year, well knows that Canacians were disgracefully deprived of the high
prizes they justly merited; and Americans know it too. Despite that treatment, Mr. Hope declares
that he will stick to exhibiting at that Exhibition that he will stick to exhibiting at that Exhibition into Canada. We were much pleased to hear this
determination, and feel satisfied that the feeling of determination, and feel satisfied that the feeling of
dissatisfaction that was spread last year by the issatistaction that was spread last year sych a
misappropriation of prizes has awakened such
celing in the minds of the honorable Americans feeling in the minds of the honorable Americans sho attended that Exhibition, that a repetition of such work would raise the rese ofe, the managers
such a pitch that, for honors
would not make the attempt. Their acts will be would not make the attempt. Their acts will be
more closely watched. All that Canadians want, and all that any hono
fair field and no favor.
ed with 87 pounds of green clover and six and
even-tenths of barley straw daily, containing seven-tenths of barley straw daily, containing
three and eight-tenths pounds of albuminoids and three and eight-tenths pounds of albuminoids and esult was that the cows while fed with the clover
pd straw gave as much milk, which was as rich and straw gave as much milk, which was as rich clover only. The cost of the milk when the cows were fed on clover alone was fifty per cent. more
than when fed on the clover and straw mixture. than when fes on the clover and straw mixture.
Here was a saving of about one third in the cose of milk simply by combining straw and green
clover instead of feeding clover alone. When the clover instead of feed ing clover alone. When the
clover alone was fed there were nearly two tha. of clover alone was
albuminoids per day fed to each cow more than
was needed and this was wasted, thus increasing was needed, and this was wasted, thus increasing
the cost of the milk, the albuminoids being the the cost of the milk, the albuminoids being to form er can feed
most coitly elements of food. No far profitably when such a waste of fodder is taking
place.-[New England Farmer,

A Complete Stock Bradn.
The body of the main barn is 100 feet long by 50
feet wide, the posts 18 feet high above the sill, feet wide, the posts 18 feet high above the sill, making 9 bents. The beams are 14 feet above the sills, which is the height of the inner posts. The position of the floor and bays is readily understoo
from the plan. The floor, for a grain barn, is 14 feet wide, but may be contracted to 12 feet for one exclusively for hay. The area in front of the bays is occupied with a stationary horse power and with machinery for various farm operations, such as threshing, shelling corn, cutting straw, crushing grain, \&c., all of which is driven by bands from drums on the horizontal shaft overhead, which
runs across the floor from the horse-power on the runs across the floor from the horse-power on the
other side; this shaft heing driven by a cog-wheel other si
on the
travel. A passage four feet wide extends between the bays and
the stables, which octupy
the two wings. This extends the two wings. This extends
up to the top of the bays, down which the hay is thrown
for feeding, which renders this work as easy and convenient as possible.
A one-sided the sheds (instead of a doublesided), to throw all the water on the outside, in order to keep
the interior of the yards dry. the interior of the yards dry.
Eave-troughs take the water Eave-troughs take the water
from the roofs to cisterns. The cisterns, if connected by an underground if necessary. from floor of the main barn is three feet higher than that of the stables. This will allow a cellar
under it, if desired under it, if desired-or a deeper extension of the
bays-and it allows storage lofts over the cattle, bays-and it allows storage
with sufficient slope of roof. A short flight of steps at. the ends of each passage,
access from the level of the barn floor.
The sheds, which extend on the three sides of
the barn, and touch it at the rear end, are on a level with the stables. An inclined plane, from shed, forms a rear egress for wagons and carts,
descending three feet from the floor. The two ${ }_{34}$ roeet one on each for housing sick animals cows about to calve, or any other purpose required. The stables at the front ends of the sheds are convenient
for teams of horses or oxen, or they may be fitted for teams of horses or oxen, or they may be fitted
for wagon houses, tool houses, or other purposes.
The for wagon houses, tool houses, or other purposes.
The rooms, 16 feet square, at the inner corners of the sheds, may be
for a bull stable.
for a bull stable.
Racks or mangers may be fitted Racks or mangers may be fitted
up in the open sheds for feeding sheep
or young cattle, and yards may be built adjoining, on the rear, six or
eight in number, into which they eight in number, be kept separate. Barred partitions may separate the
different flocks. Bars may also endifferent flocks. Bars may also
close the opening in front, or they close the opening in front, or they
may, if required, be boarded up tight.
Stepladders are placed at convenient Step ladders are placed at convenient
intervals, for ascending the shed interv.
lofts.
A granary over the machine room
is entered by a flight of stairs. Poles is entered by a flight of stairs. Poles extending from tay to bay, over mue
floor, will admit the storage of much additional hay or grain.


We are sure our readers will agree with us, that the Farmer's Advocate going into a family, will not only exert a heavent, and thus elevate the thought and improvement, and thus ele ato oo ; but that it will also help to guard against orrors, a against imposition, and assist all to make heir labor more profitable. With this view, we invite all to lend a kind influence in making the adrocate even more widely known, and in draw ing to it as readers, many who are now without its visits. This we ask as a friendly favor, aside fcale to those who solioit subseriptrions.

Fattening Swine.
bor what it was half a century go. The hogs themselves were far from their present excellence. It was almost impossible to long, lank end bony They were driven many long, lank and bony. They welled it with ease. Then the only season of packing was the cold season. The present extensive packing in the summer season was undreamed of, and would have been considered impossible. It still rennains the
case that the largest number of hogs is packed in case that the season. Any discussion of ways and means would be timely at any season, but will
now interest the most fariners. The improvem $\cdot$ n now interest the most farners. The improvem.nt
in swine has been adverted to. Careful breeding with a purpose has made swine more early matur- be boiled in a large iron kettle, suspended near the
fatteuing pen, with very little trouble. There are aluays potatoes and apples unfit for marketing,
and these can be saved for the hogs.
Potatues composed largely of starch, are valuable as a corrective of the too great oiliness of corn The slop It is one of the very important adjuncts of the fattening pen. It should receive all the dish water the skinmed milk not needed for other purposes should be put into it. Yet this will not be enough. It must be replenished frequently with water; and shorts and keep the barrel one-third full of these Always stir the barrel just before slopping the The give them all they will drink of it. The farmer may further increase the variety of
food by giving it in different forms. Thus corn nay be ground or cooked. Meal may be made into a slop, and the potatoes
and turnips mixed with it. A

glevation little ingenuity on the part of
the farmer will enable him to the farmer will enable him to increase the variety of Lood
by varying its form. Like
human beings, hogs. prefer human beings, hogs prefer a
cook of different methods. cook of different methods.
Another fault is in the lack Another fautable food. This
of green vegis absolutely essential to the
is is absolutely essential to the
health of the hog at all sea.
sons and under all oircum. stances. If the object were
only to keep the hog growing,
the need of such food would ing, eliminated a large proportion of the waste be greatest in the heated term. But at the time ing, eliminated a large proportion of the waste be greatest in the heated term. But at the time
matter, reduced bone and increased flesh. But of fattening the need of such food is urgent, no
matter what may be the temperature of the at. this has been attained at the expense of vigor
Diseases of swine are always prevalent and thei Diseases of swine are always prevalent and thei-
victims are yearly numbered by thousands. is at this autumn season that diseases prove most destructive. Doubtless much of the mortality feeding, and the incidentals of fattening. There fore it shall be the object of this article to briefly recount some points in the fattening of swin
which will lead to the best results, both regards the health and obeseness of the hog. The most common and notable evil in the fat tening of swine is the lack of variety of food. This is most apparent in the great corn producing sec-
tions of North America; as, for instance, the States lying contiguons to the Ohio and Upper Mississipp
ivers. in the United States. But wherever hoge rivers. in the United States. But wherever hogs
are fed this evil may be said to exist. This arises are fed this evil may the peculiar nature of the hog,
in great part fromer does not understand, or else is so
which the farmer indolently indifferent to his own interests as not indolently indifferent to his own interests as no
to provide that variety of food which he should

and may. Of all farm animals the hog is most truly ommivorous. everything that came in its way. Grasses, herbs, bark, roots, nuts, fruits, bugs, worms, acorns, even
snakes were found ou its bill of fare. It is yet a hog, and yet rerfuires t'ic same variety of food. It his own interests by providing it. This he can easily do He can provide grasses at little expense (they are a very cheap food for hogst,
little trouble. He can raise pumpkins and squashes among his corn, and while these are not great flesh or fat formers, they are valuable medicine at fat-
tening time, being gentlv laxative. He can oow antoes, and these, when boiled, are excellent

moster what may be the temperature of the at.
mosphere. Tharge quantities of food are eaten and are to be assimilated. The hog is a hoggish
animal. He is tempted with an abundance of ood, and taxes his direstive organs to the utmost.
His food is almost entirely dry, har $y$, indigestible His food is almost entirely dry, har .y, indigestible
food. Unless relieved the digestive organs become
overworked and impaired, the whole vital system overworked and impaired, the whore vital
suffers, and the animal becomes diseased.
Gieen food, being gently laxative and easily digested, will prevent this. At this season on fattening it should be furnished for the additional reason that uring the preceding months the swine have feasted
poon green food, their digestive organs have bepone green foomed to it, and the change from green to dry food, if too sudden and radical, will lead to
the most disastrous results. It is somewhat diffi cult to provide green vegetable food at this season. To a considerable extent its place must be supplied
with roots and tubers. The farmer may cook the with roots and tubers. The farmer may cook the
tops of turnips with the roots. He can sow a tops of turnips with the roots. He can sow a
patch of rye and it will afford pasture whenever the snow is off. Clover hay may be steamed or slightly cooked,
hogs will eagerly devour it.
hogs will eagerly devour ito is ob-
Another grievous error
servable in the water supply. It servable in the water supply. I
has become a common notion that has become a common notion ther, as
hog does not require decent water
do other animals, and that any sort oo other animais, and
of water is goo enongh for a hog
It is forced to drink from sluggish It is forcos or stagnant pools water thick creeks or stagnant pools water thick
with filth, bodily effluvia, and para-
sitic germs-water which no other sitic germs-water which no other
animal would deign to touch un ess animal would deign to. It is said
upon pain of starvation. In
in justitication of this practice that the hog is filthiy, befonls his water,
and really prefers diry to clear and really prefers dirty to clean
water. If this is so it is certainly a
trait developed by education, and trait developed by educetion, and
it or it
to blame for it, for it is contrary to man alone is to blame for it, for it is contrary to
the course of nature that any animal should prefer the course of nature that any animal should prefer
its own destruction. Hogs desire a place to wallow because, paractoxical as it may seem, it is their
bay of cleansing themselves, and iurtinct teaches way of cleansing themselves, and iurtinct teaches
them that cleaniness is essential to healthfulness. The hog encaces hinself in a coat of mud, and with it scratches off numerous parasites that have es
caped a watery grave in the wallowing hole But caped a watery grave in the a hog has been accustomed to pure drinkin
if water and is provided with a pool for wallowing,
he will rarely so far forget decency as to convert he will rarely so far forget decency as to conver
his watering trough into a bath tub. If he proves to be a reprobate, he can be restra seasons, but most important at the season of fat- om the house. All or other purposes
ill not be enough. with water ; and
urehase bran and ore slopping. the
1 drink of it. ase the variety of and the potatoes
mixed with it. A ity on the part of
ill enable him to
variety of variety of food
its form. ys, hogs prefer ault is in the lack
etable food. This er hog at all the object w
the hog grow such food would
But at the time food is urgent, n
rature of the at 3 of food are eate
te hog is a hoggis an abundance o ar y , indigestible ive organs become diseased. Gree son of fattening ${ }^{\text {i }}$
itional reason tha swine have feaste change from gree is somew hat diff ood at this season.
onust be supplied He can sow a Clover hay may be levour it us error is is
water supply.
it mon notion that a
re decent water, as , and that any bort enough for a hog.
ink from sluggish ink from sluggish

$t$ pools water thick | effluvia, and para |
| :--- |
| r which no othe | gn to. touch un ess

ation. It is said this pratctice that
befouls his water, rs dirly to clean
so it is certainly a by education, and or it is contrary to
nimal should prefer e a place to wallow
y seem, it is their nd instinct teaches
al to healthfulness. at of mud, and with sites that have es-
llowing hole But
But to pure drinking
to
nool for wallowing, cency as to convert
tub. If he proves
strained by nailing important at all tats large quantitieie

Jectober, 1883
THE FARMER'心 ADVOCATE.
of food and requires large quantities of water $t$
allay his thirst. If his drinking water can work of food and requis. If his drinking water can work
allay his thirst. him an evil, it will now work the greater evil. A all sources and agents should be guarded against. It will not do to depend upon creeks for the
water supply in many localities. Where they are fed by spring and are ever flowing, their waters are pure, cool and sweet. But in many localities they
are formed hy surface water alone. After rains they rush along, but their waters are thick with unwholesome sedime ta of decomposing vegetabe of the land; they soon recede into stagnant poois stil
more unfit to be drunk. As a rule, ponds are a muisance, and the water they afford is rarely wholesome. Wells fed by underground streams, and
protected from the surface washings by banks of protected from the surface washings ly baina
clay around the curbs, are the only reliable sources
of the water supply. The farmer may find it of the water supply. The farmer may find ill
laborious to pump water from a well, but he will laborious to pump wat so.
make money by doing so.
Fattening hogs should be supplied with what shall call condiments-seasonings 10 sharpen thei appetites by imparting tone to the digestive organs.
First of these I would put charcoal, which will absorb the gases engendered in the stomach. If the fires at the house do not afford a sufficient supply, If ashes are mixed with it, all the better, as the will prove destructive to hurtful intestinal worms Salt should be regularly supplied. Hogs will eat
too much of this if allowed to do so, especially it hungry for it, and it should be given to them often
and in small quantities. Under this head pumpkins, squashes, apples, \&c., might be classed. Last, but not least, are shelters. All farm weather. Sheltered animals will put on mor esheltered. I am of opinion that of all our common domestic animals, it is most difficult to shelter hogs properly; yet their shelcers so much importance, and one so generally neglected, that I shall reserve it for a separate article.
In justification of
In justification of the length at which I have treated this subject, imis industry in the territory where the Farmer's Advocate circulates.

Impotency Among Males
What stock raiser has not suffered annoyance
nd loss from the impotency of some male? The and loss from the impotency of some mase? assumed such proportions that it may be called one of the evils of stock raising. Such has become its frequency that a
breeder is doubtful of a male's ability to get till service has demonstrated it. It is a growing evil,
and one of comparatively modern origin. Fifty and one of comparatively modern origin. Fifty
years ago an impotent male was a rare exception. years ago an impotent male was a rare exception.
Impotency was almost unknown among the unimproved breeds of that period, and to day is of rare occurrence among scrub stock. cans a clue to its origin and causes. If it has
ford us ord us a clue to the improvement of the animals,
originated with the
ncreased as that improvement has augmented increased as that improvem among unimproved breeds, we may safely surmise that he in mor for it. This is an evil of no mean magnitude. Male have a wale where this evil is most prevalent, that
breeds,
value is a respectable one. They also require no late is expensive Above all this, they are exceedingly troublesome to the stock raiser. Breeders will tel you that one male They are unruly, and difficult to manage and control. They must be confined, or at least separated from the females, except at the
season of service. If the breeder has gone to the expense to procure and maintain, and has incurre
all the trouble to keep a male that proves im potent, his hass is frove to be the smalle loss. There is a proper period for the birth of farm animals. This varies with the class and often with the purposes of the breeder. It may be said that
if, for any reason, the time of birth is deferred to an improper season, the best results will be there by lost, and the breeder will suffer damage. This
is the ineritable and invariable result of the impotency of a male. The female may be served,
but the worthlessness of the service can not be detected unthl it it is too late. The evil is all the
greater bectauee it can not be known in wervon to
remedy it. Perhaps the breeder wishes early
spring litters ; but an account of the impotency of pring litters ; but an account of the impotency o
the boart the pigs are not born till June or July, if the breder is so fortunate to secure the services of
nother boar in time to secure litters at all Calves that should have been dropped in April are, on account of the impotency of the bull, not
dropped till midsummer. Lambs are born two hropped till midsummer. Lambs are born two quent, and always annoying and accompanied with loss. The importance of discovering the causes
that produce impotency, that it may be avoided, is that prod
obvious.
Undoubtedly failure to get is often the fault of
Une the females. Some cows are naturally barren, and,
under the most favorable circumstances, would fail to get with calf. Again, this barrenness seems to be confined to particular seasons. In severaly years nearly every cow in my neighborhood has ared
get with calf. I Io not deny that there are barren cows ; but in this carticle I propose to confine myself to impotent males. When the faul
male it can easily be discovered ; but the remedy male it can easily be discovered, buo
for, as well as the causes of the impotency, are not
so easily discovered. so easily discovered.
The ability to beget depends not only upon the ual organs, but upon the general health of the whole system. The threads of the bodily fabric are so closely interwoven, so sympathetic are the
action, that one organ can not be affected without action, that one organ can no to other organs and
communicating its affection to ot
influencing their action. For example, disease of influencing their action. For example, disease on
the stomach will be communicated to the liver ; the stomect the kidneys, and produce disease in the urinary organs, and from there be transferred to and impair the vitality of the sexual organs; ;
last the disease of the stomach has resulted in im potency. Again, poverty of the blood may cause
impotency, as the life-begetting fluid is derived from the blood. Disease of the body does not al ways lead to impotency, but it may; and to insure
the sucessful action of the sexual organs the health of the whole body must be maintained.
In a perfect animal, each organ is fully and In a perfect animal, each organ is fully and per
fectly developed, and the development of the whole animal is symmetrical. The developmen of one organ is not at the expense of the other. I
is apparent that this symmetrical development is most surely attained by good muscular growth,
and most often lost by excessive fatness. Male and most orten lost by excessive fatness. Nowe
for breeding are most often pampered, and eac breeder knows that pampered animals are the mot
often impotent. Excessive fatness hegets a gener at bodily lassitude, and tends to a partial suppres
of
sion of sexual desire. If the sexual organs are no sion of sexual desire. If the sexual organs are no
called into activity by the will, they must lie dor cant and grow weak and feeble. All this tim
mere is an undue deposit of fat occasioning stil there is an undue deposit of fat occasioning stil
greater lassitude. The exertion of the animal less, and its muscular development decreases in proportion. Thus all the conditions of impotency are gradually but surely developed-obesity
aversion to exertion, lack of muscular develop ment, non-activity of sexual organs, and genera debility of the whole animal economy.
With these facts under consideration, we may is greater among improved breeds than amon scrubs. Those who avail themselves of the servic of scrub males are rarely provoked by their impo
tency. The fault is almost wholly confined to ou improved breeds. This is not because they are im proved breeds, nor because the animals are of fin ditions in their lives, not existing in the lives o scrubs, tend to the production of impotency. scrub animal is not pamperes. It takes plenty
exercise, for it has the disposition to do so. may be kept in good growing condition, bu development. Though its development may not be exactly symmetrical, there is very little danger of the non-development of the sexual organs, for of its life, preponderate-[ National Live Stock of its life,
Journal.
Let you horses stand loose, if possible, witho being tied up to the manger. Pain and weariness
from a continued position, induees bad habits and from a continued position, inducs
causes swollen feet and disorders.
A deal has been written about she p Poving
bitter weeds, briers, sassafras, and the like. and they are good scavengers for a foul farm. But it
has been found that shoep love the cultivated has been fo
gramen blaph.

Ghe Sfarm.
Evergreens on the Farm Nothing adds more to the attractive appearance
N a farm home than a liberal supply of evergreens of a farm home than a liberal supply of evergreens
tastefully arranged upon the lawn and about the and
buildings. But their value is by no means con-
ned to the ersthetic effect they produce. Judiciously employed they serve a purpose of practical ciously employed they serve a purpose of practical
utility as wind-breaks for the protection of the house, the garden and even the barn and cattle yards, for which purpose thy are unexcelled by
any other material that can be used, serving the any other material that can be used, serving
double purpose of ornament and use. A few years since a horticultural writer gave his experience of
the relative value as wind-breaks of a high, tight the relative value as wind-breaks of a high, tight
board fence and a row of evergreens of a bout the board fence and a row of evergreens a ald north-
same height. He found in case of a cold wame heigr., after tender vegetables were up in his
warden, that for a few feet from the board fence i
garder garden, that for a few feet from the board fence it
served as a perfect protection, while beyond this served as a perfect protection, while beyond own
the wind passing over the fence swooped down
with destructive force, destroying whatever tender with destructive force, destroying whatever tende
vegetation came in its way ; while in case of the vegetation came in its way; while in case of the
evergreen screen, while the wind was not wholly evergreen screen, wirce was so broken that nothing
arrested by it, itf force
in its range suffered. in its range suffered. Much greater care is neces. sary in handing them exposure of the roots to
deciduous trees. The exp hot sun or drying wind, even for half an hour, is
almost certain death to the tree. But this need not prevent their being used liberally upon the not prevent their being used siserall The bette
farm, at small cost and even less risk. The
plan, if one has patience to wait, is to buy the plan, if one has patience to wait, is to buy the
small stock of nurserymen, when about one foot high, buying by the thousand Plant in rows fou feet apart, and two feet in the row, and cultival till large enough to set. An assorted thousand
embracing the Scotch and Austrian pine, Norway spruce and American or European arbor viteo-al hardy-can be bought at a cost not exceeding $\$ 10$
In three or four years from planting there will be some large enough to take up and set, leaving the others to grow, and from this time on there will be they have worked a complete transformation in the appearance of the premises. When so grown a cloudy or wet day can be slected or transplan ng with little or no risk of loss, since the trees
oon as taken up can be at once transferred to the soles already dug, and with much of the dirt in which they grew still upon the roots.
Small evergreens pulled up in the no Se freely advertised oach spring as low as two or three dollars per 1,000, but they are dear at any price. In gathering them and preparing for shi
ment, there is such exposure of the roots that they are usually dead before reaching the purchaser, and of no value whatever, while nursery-grown
stock of the size named, if properly handled, will 11 grow. In planting evergreens upon the lawn all grow. In planting eatirnings avoid any appearance of stiffness in the arrangemon, rows. It thrown in irregular
thus naturally, the effect will be altogether more agreeable. A fine effect can be produced by planting the Scotch or Austrian pine in a circ e
about fifteen feet across and the trees six feet apart with one in the centre. When ock, trim off the inside branches of the circle, and trim up the centre tree sufficiently so one can nass of pine, when viewed from the outside, but inside, a room
with the fragrant pine. Trim for a door on the north side, and you have a pine parlor such as the writer has on his place, and which is extensively patronized hy the family where wind hreaks are
summer afternoons wanted pines mav be planted in double rows, six
or eight feet apart, the tree in one being opposite the space in the other, and allowed to take their own way. The branches will soon interlock. Or,
the Norway spruce or arlbor vite can be planted in a close hedge, and hy keeping the ontside
branches clipped in, will make a solid wall of verdure which can be run up to a considerable height.
The farmer who will invest $\$ 10$ in evergreen that he wants to plant on his own premises, and a good deal to gile or selly get a great denl. of enjoy. ings, but if he plants as liberally as he should, he
will in te years add $\$ 1,000$ to the selling value of will in ten years add $\$ 1,000$ to the

## A Prairie Home.

how to beain it, add to it, and finish it. The settler's first and indispensable want is a house-something to protect his wife and little ones from the sun and rain; not a costly villa, or

hig. 1-ellevation.
even a commodious farm house (which he may have in prospect for the future as the reward of industr.
live in.
The pioneer in the backwoods has a deeided advantage; for, with the help of his ever-willing neighbors, or, mayhap, only his
he has but to fell the monarchs of the forest and roll them up of the forest and rof them up,
and, with a roof of elm or hemlock bark, he has a house
at once warm and comfortable at once warm and comfortable
But, in the sparsely tim bered regions of the North west, as a general thing, the
uxury of a log house is not to uxury of a $\log$ house is not to
be thought of. The first set be thought of. The first setgood health of himself and
amily, forced to take refuge amily, forced to take refuge by simply digging a square ex cayation in the sonth slope of
a hank or hill, six or seven a eank or in the rear, and
feet deep in
building up the front, leveling up the sides with sod poofed first with poles, the mall brush and hay, and last ly, ten or twelve inches of
dirt, packed down hard. This makes a habitation-it cannot be called a house-usually
a
more or less damp warm, but moy
and unhealthy

$$
\begin{aligned}
& \text { In the accompanying en- } \\
& \text { aravings is shown a plan which }
\end{aligned}
$$

Figure 1 represents a simple cottage of only one

$$
\begin{gathered}
\text { prairi- settlers of slender means } \\
\text { Figure lrepresenta asimple }
\end{gathered}
$$

oom, which can be erected at a trifining expense,

fig. 3-plan.
naterial as follows :- -800 feet of inch boards, sills 6 by 6 , and 4 beams 6 by 6,10 rafters and 12
paper for roofing. Tota) (cost about $\$ 50$.


| work himself, with the aid of a carpenter to case |
| :--- |
| and |

frame the sills and lay them upon the foundation in proper position; next frame the beams, and lay them upon the sills; then securely nail two
perpendicularly at each corner of the sills. U perpendicular boat at each corner of the the middle; this. w make the building seven feet in the clear ; now cut
four stanchions seven $f$ et long, and, with the aid of one person, raise the beams one end at a time; slip under the stanchions, and nail the top of the boards, that had been prevs onsly proceed with the
sills securely to the beams, then planking, which any one can do who can saw off a board and drive a nail.
For roofing, use saturated tar paper, which is
manufactured expressly for it and is for sale in all manufacturene
western towns. The cost is about one-fourth that of shingles ; it is not as good, but will last severa years, when shingles can be laid right over it.
If it is spring or early summer, the clapboards
can be omitted until the fall ; but do not omit the veranda-the crowning glory of any house, large or small, is a veranda.
At the end of one or two years it is presumed that the settler wishes to enlarge in plan Fig.
domicile. This he can do, as shown in pal domicile. This he can do, as shown in plan Fig.
2, which consists of his first erection with a lean-to of one bedroom, a pantry, and a wood-shed. This can be erected upon the same principle as the first.
The reason planking and clapboards are recommended in preference to studs and clapboarding is, that any one can build with planks; but it re-
quires a professional carpenter to build a studded quires a progessional cill make a convenient house for a small family. The inside can be finished with paper or plaster, to suit the taste of the occupant.
Again, in the lapse of years the farmer wishes to

## Commercial Fertilizers

The question is asked, answered and discussed in the agricultural papers whether "chemical fertiWhen in this country and in Europe good crops
When and have been raised from five to forty years withou any other fertilizers, the questions seem odd enough
No farmer should condemn commercial fertilizer because superphosphate of lime alone has been used

without any visible effects. If the land needs a kenefit from foon, over, that the particular special fertilizer applied is just that which the land does not need. Farmer are apt to look upon "phosphates" as complet
chemical fertilizers and to conclude that all concen trated fertilizers are worthless because from single trial the "phosphates" failed. This is one sided reasoning. There ar will produce no visible effects others upon which phosphoric acid or nitrogen may be
wasted. But if all three are applied and the land needs ood, the growth of the crops will as surely be promoted as
by the use of farm manure, for by the use of farm many supply precisely the same food ingredients. the farm manure peeded, there would be no sale for chemical fertilizers at their present prices. But when we
cannot procure farm manures at a reasonable price we must resort to the next best thing-
complete chemical fertilizers, complete chemical fertilizers,
unless we ascertain by experiunless we ascertain by experi-
ment that our land needs one or the other constituents of
which they are made. Then which they are made. Then
perhaps, bone, potash, or nitrogen may produce the same effects as all
New Yorker.
$\qquad$
iif. 3-elevation.
enlarge his house. If he has followed the precedenlarge his house. If he has followed the preced-
ing plans. he will now "improve," as shown in Fig. 3. This consists of an upright part, added to
his former erections. He now has means sufficient at his command, and will call in the aid of the
practical architect. He can build his last part practical architect. He can buil his low house is advisable in a prairie country. This makes a very
convenient house, and it is not devoid of beauty. onvenient house, and it is not devoid of beauty
Plan, Fig. 1 , is a room 12 by 14 . Plan, Fig. 1, is a room 12 by $14 ;$, veranda.
Plan, Fig. 2 , K, living room, 12 by $14 ; \mathrm{B}$, bedroom, 8 by $9 ; \mathrm{P}$, pantry, 8 by $8 ; \mathrm{W} \mathrm{S}$, wood-
shed ; V, veranda. Plan, Fig. $3, \mathrm{~L}$, living.room, 12 by $13 ; \mathrm{K}$,
kitchen, 12 by $14 ; \mathrm{D}$, dining-room, $9 \frac{1}{2}$ by $12 ; \mathrm{B}$, $\mathrm{B}, \mathrm{B}$, bed-rooms, 9 by 8 and 8 by $8 ; \mathrm{S}$ P, summer pantry, 8 by 8 ; P, pantry, 8 by $8 ; W$, wood-shed
$\mathrm{V}, \mathrm{V}$, veranda. The summer pantry can be used in winter for a place to keep meat, and as a store Yom. Being away from the kitchen fire, it wil keep fresh meat a long time, in suitable weather.
The cost of the last design (the third addition) will not exceed $\$ 1,500$.
I can say without flattery that your paper is the par excellence of agricultural journals, and although
we take several papers we always find it the most welcome of any on the table. In my rambles a mout try, the ADvocate is, as a general rule, sure to be
found. May each year add to its numbers try, the ADveate yeas add to its numbers, use-
found. May each year ad.
fulnoss and excellonce. . V. K., Lansdown, Ont.

The depredations of insects on crops are compelling farmers to learn a good deal of entomology. It
is much less common than it was a few years ago to kill a bug or worm merely because it looked ugly.

fig. 2-plan.
in looks nor in disposition. It is in the fall that rgies are then devoted to destroy, for their en enemies.

Ghe Stlonoer ©arden． A Simple Conservatory A porch facing the south，having pillars，can readily be converted into a conservatory by simply having sashes or window freen the pillars or posts，and fastened with tween the pillars or hooks．They can be taken down in the summer and stored away to allow the place to be used as a porch again．By this method a neat lit tle conservatory can be made．To heat it a small， tight coal stove may be used，or have a pipe rui from the heater，if there is one．In using a stove care should be taken not to allow any more gas to escape than can be helped．Check the fire during the day if it is too warm，bu $A$ par kettle stove door to allow gas to escape．A pan or kettle
kept constantly filled with water should be always ou the stove to supply the necessary moisture． Balconies can also be converted into small con－ There are many places which，by a small outlay， could be converted into a conservatory．It is of the greatest importance that the upper portion of the window or sashes can be arranged to open
without difficulty to admit fresh air．Also so ar－ range things that you need not knock over half a dozen plants before you can reach the windows．
Top airing is the best，as the cold air on a winter＇s Top airing is the best，as the cold aenly．It would be well to have cheap cotton shades made to
the outside of the window on cold nights．

Lifting Plants for Winter Flowering．
Plants which have been grown for winter flower－ ing should be lifted before cold weather sets in． for flowering during winter by leaving them out until they have been exposed to severe frosts．To insure free flowering or winter quarters upon the approach of the first frost．Stevias，Eupatoriums， and all tender plants，should be lifted and potted doors as long as possible；for，although they will not endure frost，they succeed best when kept as all timessid If kept in close atmosphere，they ＂draw up＂，with weak shoots and still weaker fowers．Plenty of light and air on all suitable oc casions are the principal on
cois with this class of plants．
Lifting plants should be done，if possible，on cloudy days．Some people prefer to lift plants on wet growing on sandy soil，but if growing on soil having a good proportion of clay in it，it is not ad visable．The soil around the roots is liable to get hard and remain so，in consequence of which the
roots have considerable difficulty in making a start roots have considerabass．Plants growing in stif soils should be lifted when the ground is damp
but not wet．With sandy soil it is different but not wet．With sandy soil it is different from such，plants may be hited at any time．
dry，the soil will fall from the roots and leave
them uninjured ；and if wet，it will cling to them them uninjured；and if wet，it will clis．
but does not harden as in clayey soils． but does for flowering during winter shnuld b lifted early in the season，so that fresh roots can be made before they are placed in high lempera
ture．Every grower of Roses knows it is useless to expect success with them without plenty of good，healthy roots．
Large plants of Heliotrope can be lifted an change，if care is taken to mutilate the roots a little as possible，to keep them from exposure to
drying winds．to cut back the leading shoots in proportion to the mutilation of the roots，and to keep the atmosphere of the house moist until fresh
roots and new shoots are started．If placed in a roots and new shoots are starte．of sunlight can be
part of the house where plenty on
given them，they do not need as high a tempera－ gure as most people suppose necessary to insure a abundance ot intended for pot culture during winter，and requiring pots over six inches in diameter，should be well drained with broken pots，
charcoal，or any material suitable for allowing the charcoal，or any materf freely．Unless the water passes freely through the soil the plants do not
thrive well．

Storing Geraniums． Vick says ：－Geraniums that are to be merely
kept over for another scason may be allowed to emain out as long as the weather will permit，and remained uninjured until the first of November，or
little later，but that was quite unusual By a little later，but that was quite unusual By
watching the temperature，and giving the plants watching the temperature，and giving the plants
protection when cold threatens，they may be al－
lowed to remain some time after frost has arrived． However，when a severe freeze is imminent the plants that have made considerable root－growth may be kept over very well by tying them three or our in a bundle and hangi from frost through the whiner，and where there is sufficient moisture in the atmosphere to prevent drying out．A cellar
containing a furnace，keeping the air constantly containing a is not suitable，and even one with a cement
dry，
bottom is less desirable than one with soil or gravel bottom is less desirable than one with soil or grave
bottom．Small plants，and all those varieties that have a small root－growth，such as all those with variegated foliage，do not keep well by this
method，as they dry out．Except for those that are very strong we advise placing the plants in cient moisture to prevent drying out．In either
cose case it is not necessary to prune or reduce the eize
of the plants，but to put them away with the foli－ age on，which in time will turn yellow and wither， and then may be removed，otherwise the leaves
will decay and cause the stems also to rot．A lit－ the attention in this respect will insure their sound
ness．The plants，in early spring，can be brough ous．and potted，and watered quite gradually at
ofrst．By planting out time they can be in fine condition．

## ゆoultry．

## Poultry at the Industrial．

The exhibition was one of the best that has ye taken place in Canada，each class being well re presented，and the birds shown wiore， good were the birds that it made the judging no light task．We heard of very little grumbling at the awards，the majority of the unsuccessal ex lib tors being satisfied that the prizes had been given large and exceedingly giod，nearly all the well known varieties being represented．It is a pity that more space cannot be given for the exhibitio of these pretty birds，as they were nearly alway vurrounded by admirers．
Now for the show of poultry our part．It to the public before the middle of the week．There is no reasonable cause why the birds cannot be on to the public on Tuesday morning，the last named being one of the best attended days of the fair，and visitors during the first part of the week were de－ prived of the pleasure of viewing this departo building，and the public allowed into the remain－ der，instead of being excluded altogether．By the present system
days and a half．
The poultry exhibit at the Toronto Industrial has grown to such dimensions that it is time that he directors considered the question of enlarging
the present building，or better still，of erecting a new and more commodious one，as the old premi． ses are entirely too small for the purpose．Many
of the fincst birds，especially among the males， were cramped up in coops in which they were un－
able to display their excellent qualities，and in some cases injured their plumage．Again，some that it was impossible to get a good look at them
without having to stoop very low ；the consequence was they were passed by．What is wanted is a arge，airy building，with all the coops about two
feet from the floor，and large enough to en－ able the birds to turn around without injuring
their feathers，with avenues wide enough to allow visitors to pass easily without having to push their visitors to pass easily withouthas opposite any pen．
way through when a crowd was

The ねpiary．
How I Winter my Bees．
By wilL kLLIs.

I will give my mode of wintering for what it is worth．The winter of $1881-82$ I wintered 6，none dead； 1882.83 wintered 20 ，none deal，and will now pack 40 as per directions given below．As I will give Simplicity Hive，Langstroth Frame， differ in dimensions for it，and should jour inve hive is 16 inclies wide by $20 t$ long， 12 inches high outside measure．Now for the bottom board of shell ：it should be 26 inches wide by 30 long，and can be made of any common lumber，as the bottom board of hive is a cover and as the cover is taken off in winter．It leaves the hive yet 12 inchea high．The entrance is always with this hive in the bottom board．Now set on your hive and board board，and in the centre of the botto board just made the alighting board must of shell．Now for the shell：you can either make it out of $\frac{1}{2}$ inch or inch，just as you choose．Make it to set on the board，but before doing so cut an opening in the front of shell the width and depth or bottom board of hive．Now set on shell，and
you will see thit the inch protruding answers for an alighting board in winter．Now lay on a strip
of wood the width of the distance from shell to hive，over the entrance，and this gives the bees an opportunity to come out or go in as they choose．
The shell should be 20 inches high in front，by 17 at the back；this gives 3－inch slope for the rain and melting snow to run off．Now take ofch end
cloth of the frames of the hive，and near ear y a strip of wood inch square across the frames，
and on these lay strips of wood like lath length． wise；this gives the bees free access to all the combs and saves cutting passageways through the
combs．Now lay on your cloth so that no chaff can fall through into the bees．Then fill in with good dry oat or wheat chaff；you will have 4 inches
of chaff all around and $6 \frac{1}{2}$ over．If you choose， after putting on 3 inches of chaff，you can put on your shell cover．II will give no directions for
naking $i$ ，only be sure to make it so that water caking it，only be sure to make it so that ware
cannot get into the chaff．If your shell cover pro－
jects over all around，you can make the shell out jects over all around，you can make the shen
of any old or cheap common lumber the alighting ooard is put on to the bottom board by means on
wo screws）．I have found this the cheapest． easiest and safest，and as long as I can winter
safely I shall not change．I shall commence to pack when chilly or cool weather begins，and have
them all packed away before winter sets in．

How to Deal with the Clover Worm． So soon as the second crop of clover is cut off，the
field should be immediately plowed．There will field should be immiediately plowed．There will undoubtedy be some and perhaps mand turning them under will entirely de．
the root，and then stroy them．At this time the clover roots have made all the growt of whants will be only a mass
and if left till spring the pillithe of
of dead stuble with million of the clover insects harbored in them，ready to commence work an other year．If the field is intended for planting next season there is no loss in fall plowing，and a
deciled gain if rye is sown to be turned under the following spring．If wheat is to be sown arter the
clover，it is better not to cut the second crop，un clover，
less examination shows the heads well frillep，with
seed，in which case the crop is too valuable to be seed，in which ca
used for manure．

I have been taking the Advocate for many years，and consider it an exxellent agricultura n every respect abreast of the age ；fearless and independent in exposing what you consider wrong，

Mr．Charles Downing anyes sulphur as soon as the leaves are large as a half． dollar，and renewal after each rain，will generally
prevent mildew on grape－vines，but not always．

## Firuit (3)arden.

## Russian Plums.

Of late years plum culture has been neglected. Now, hardy varieties, grown in northern
latitudes, have not been introduced into this country. In Russia plums are successfully cultivated, nothwithstanding the severity of the
climate ; but they are dwarf, and Mr. Chas. Gibb, of Abbottsford, Que, speaks as follows of these
plums : plums:
"These northern forms of the plum are dwarf in habit of tree, often bushes, and these cold climates, if a plum bush is killed to the ground new shoots
of these plums there is a soon grow and bear. Of these plums there is a
great variety; some are red, others yellow, but great variety; some are red, others yellow, but would say, equal to Lombard, some are early, some
late; they are usually without any astringency late; they are usually without any astringency
of skin, and usually free stone. I was not prepared tofind such plums in the cold climates of Russia. The improved varieties of the wild plum of the
North-Western States, I had expected to be the future plums of the Province of Quebec. I have some of them, heavy and reliable bearers, but of medium quality only. I $\left.\begin{array}{l}\text { There are much better } \\ \text { varieties than those } \\ \text { have-for instance, the }\end{array}\right]$ varieties than those free stone Russians, have a oombination of goo qualities which en
These Russian plums are grown, no doubt, sometimes from stones, but usuales from suckers. Most of the horticultural gardens or nurserymen have
made small collections of the best they have made small coulections of the best the thas obtaining roots of the best, from a number of points, we may, more or less, get the est of these Russian seedlings.
At Tula, we find quite a variety in the peasant
rchards, and among the Reine Claude. Yes, in Russia we find a family of Reine Claudes, red
white and bue. They are of very fine quality, white and blue. They are of very fine quality
extra quality, but in the cold climate of Tula they are planted at an angle of 45 degrees or less, anc hent down to the ground before the snow falls
Thus protected by a covering of snow they ofte Thus protected by a covering of snow they often
bear bountifully. When too old to bend down they are allowed to take their chances, often bear crop or two and then die."
In reference to the above we mays say that Mooer's
Arctic plum, which was mentioned in the columns Arctic plum, which on page 228, in October, I 1 800 , is a characteristic of the Russian variety. It is said
that they stand a winter cold of $50^{\circ}$ below zero without an injury. We have watched this variety, and though not as yet grown in this Province,
from all our correspondents in the Maritime from all our correspondents in the Maritime
Provinces, we hear that it has done well. The
Hon J. F. Stairs, of Dartmouth, N. S., has a Hon J. F. Stairs, of Dartmouth, N. S., has a
number which he planted in 1882, and they have all done well From information we
have received, the fruit is large, of a handsome, have received, the fruit is large, of a handsome,
dark color, fine quality, and will keep from Angus to Christmas., It has never been

Advice to Young Orchardists. by john J. thomas.
To guard those about to commence fruit culture against errors to which they are liable, a volume
might be written; but there are a few points which may be more particularly and briefly alluded to.
First of all, novices should begin moderately, with a view more to learning the trade than to making money on thoroughly and in the best manner. Prepare well the intended ground for planting with deep and clean culture, and see that there is a good natura
or artificial drainage. Select proved standard or artificial drainage. Select proved standard
varieties, not costly novelties. Choose vigorous, varieties, not of moderate size, and look more to good and copious roots than to showy tops. Constant and in a satisfactory and healthy condition. It is better to add yearly to a collection, as experience points out. than to alled to change afterplanting at once and be compelled the varieties. These remarks are intended both for market orchards and for plantings for home use.
pursue a course somewhat like thac adopted by Napoleon i" Forpt, when he and his officers were
riding on a dark night on the broad sea beach when riding on a dark night on the broad sea beach when
the tide was down. All at once the water began
to rise and to pour in upon them, but they could
not see which way to make their escape from not see which way to make their escape them
drowning. Napoleon, never at a loss, ordered them instantly to form into a hollow circle, with the horses heads ; if the water became shallower to keep
ride ahead ride ahoad ; if the water became shall
straight on ; if deeper, to turn about and follow
the the rest. This course quickly brought them to
dry land. In like manner, young fruit growers, dry land. In like manner, young fruit growers,
keeping their eyes open, should observe what course keeping their eyes open, should observe what course
is bringing them to profits, and what towards
losses, and lead on in one direction and turn about losses, and lead on in one direction and turn about
from the other. In other words, they should folrom the other. In other words, they shog riches, to "" eut short your losses and let your profits run on." The orchardist can do this only by yearly
experiment and observation, and not by attemptxperiment and observation,
ing to do a great deal at once.

Plan for Garden and Fruit Grounds. This plan was arranged for a gentleman who had about forty acres of land that he wished to use almost entirely for orchard and nursery purposes. It is divided into eight plots, containing about our acres each, an, \&c. contains about eight acres Through the centre is a road connected with each square, and a road is made around each. oppor tunity for turning may be had at the crossings of

back of the lot. A border of standard fruit trees is planted around the whole farm, both for fruit ivided to suit convenience, or crops $\mathrm{A}, \mathrm{A}$
apple orchards; B , standard pears, cherries and plums ; C, peaches and apricots; D, vineyard; E
, 1 , rasplerries. gooseberries and currants; $;$, straw
berries; $G$, vegetables; $H$, dwarf pears and [Another plan for garden and fruit ground will appear in November number.]

A Moment with You.
The FARMER's Alvocate has occasion to feel That is as true as it can be. But suppose we ain to increase its circulation during the next sub
scription season-let us say 25 per cent. to b within reason. Will you help us, sebscribers?
Vell. that is what we are going to do, and if we succeed, our friends shall be benefited as well as ourselves-and this is no idle promise. The AD patrons and we hope that the charge can never an increase of 25 per cent. Now let us see !

Seasonable Hints.
White Grubs are among the most dreaded and destructive pests in the strawberry bed, as we are almost powerless to prevent their infestations. Yet, accepting the position as we find it, we can do considerable to stop them in their devastating career, similar to the principle according to which burning houses are puledjoining ones. spreag of the fire to the aaberned itrawbery bed should be gone
A grub over every day, and wherever a wilted plant is
discovered, it should be dug up at once, and search
$H \in$ will usually be a made for the marauder. Here he may easily be found and crushed. But when a plant is alread badly wilted, which is a sign that it has bee attacked some to to a dry and dead one-has gen-
fresh, juicy root
rally already gone for another victim, usually the erally already gone for another victim, usually th be made for another wilted plant, and if there ia one near by which shows the least sign even of wilting, do not de do but pull it out at once and the grub will be found every time. The treat ment is radical, to be sure-in every sense of the word-but it is order to save the other, than to let the grub take all.
the grub take all. the remark made: What is the use of killing a few, others will come to take then
places?" This is erroneous; others will not, can places. come to take their places, at least not befor another year and before another crop of June
beetles appears to deposit its eggs in the ground beetles appears to deposit its eggs in the ground
apain. The grubs themselves cannot fly, nor d again. The grubs far, so that every one killed lessens the amount of damage done.-[America Garden.

## Orchard Work for Autumn

As farmers we are too much given to slighting the orchard. We are slow about establishing one, and are often negligent about keeping especially once beable during the late summer and through the noticeanth. The orchard usually receives some
fall months. fall months. The spring, to start it on, but after that, as the presstirely neglected, *xcept perhaps on, it it almost entirely
the gathering of what little fruit may be produced. Fruit of any kind will soon degenerate unless well cared for. This care does not involve any
great amount of labor, but needs that little time great amowtion regularly. If the roots are allowed and aecone sod-bound or the tops thick and bushy,
to becme the fruit will certainly become small and poor.
Thorough mulching during the summer season will remedy the first, and constant and moderate use of the knife will do the work for the tops 1 am wil-
ling to confess that mulching is my hobby in the ling to confess that mulching is my hooby in the
management of the orchard. It conforms with nature's plan, and if we would aid nature in her work, we must also adopther the falling leaves each year adding another layer the falling eaves eabove the roots. Id dn not believe in constant cultivation, because the surface feeding
roots are then disturbed and forced down, for selfprotection, into the cold soil below. Mulching protection, in the fertilizing material needed, keeps the
furnishes the soil moist and mellow, an the roots. For winter mulching, coarse materials should be avoided, as it will harbor vermin Muck or even earth, heaped around the truuks oot or so in heiter.
Tound one of best of care, however, we must lose once in a while a tree, but we need not and should not allow these eace
Now is the time $f$
$r$ fill such vacant places. It is not best to wait until spring before getting these on hand. We should be transplanted at the first favorable opportunity in the spring. When "heeling in ", the roots
on
should be placed below the reach of frost, while should be placed below the reach of forst, white to the surface of the ground. A record of the orchard should be carefully preserved, so that the planter may learn which varieties are the most ha will and be prepared to use good judgment in filling such vacancies as may occur.-[W. D. Boynton, in In diana Farmer.

October, 1803
THE FARMER'S ADVOCATE.

## The Dairy

## Solid and "Limpsy" Cream

by john gould.
The subject, or rather causes of the differen degrees of solidity in cream, is one that has bee often considered, but is not wholly understood; in fact, long arguments are submitted to prove this or that theory, when in truth it is simply a matte of vaporization, and the different conditions of is air explain the whole matter. air settling on the milk causes a condensation, and the cream taking up the moisture of the atmosphere, causes it to become largely charged with vapor, and a soft oream results. Often drops of water are seen upon pans of milk, and how it got there puzzled the whole family, from gray-headed grandmother to the infant, Roscoe G. Smith, when it was simply a matter of depositing the moisture of the air upon a cooler surface. As a rule, softer cream is best or the average butter maker to lumpy or clotty butter of, as it is limpia, is nol "ty or cloth and hence watching for the butter to come There is this danger, however, in setting milk in air so moist as to facilitat this condensation, unless the air be absolutely pure, and that is this : thin cream is thus assisted in becoming a detter bsorbent, and any flying impurity, seen, smellable or unsmellable, taken up by the milk, and in the end often brought nearer by the increase exposure, the keeping qualities the butter are impaired. The soft cream of the deep sebection, as it it losed ayainst the floating impurities of the its softness not being caused by an over-abundance of precipitated moisture, but by the forcing process, which throws up a large per cent. of milk along with the cream, and is of no injury to the butter if acidulation of the cream is not carried beyond the first stage; and this extra milk is readily separated from the butter by when the the older process known form, which precech now may be happily classed among the lost
$\stackrel{\text { arts. }}{\text { The }}$ tough cream, known as the leathery cream, is produced by two methods, setting the milk in air which is too cold, and the other by the scalding process. In the west a noted creamery man, after being at great expense to construct cold air duct to his creain room to obtain uniform temperature, discarded of the when the real truth was that he had reduced the , too abundant air, as he supposed. If the air is colder than the milk, moisture, instead of being deposited, is absorbed from the cream, and the natural fluid of the milk is taken up. which cause ${ }_{8}$ closer adherence of the butter globules and hence toughness. Factory men who set milk in the large, open vat, have noticed that the cream was leathery at one end of the vat and limpsy at the other, and wondered at the cause-the why of weing that the curreats different points of the building, were differently charged with moisture, and herefore absorbed more or less from the cream, as the case might be. The result is that we get creerm the case might be. deficient in water, and is therefore found in the solid state.

There is no positive loss in solid cream if the undins the should be handled are amiliar to the maker. In one respect, if open parting with its moisture has allowed its volatile impurities to escape, and to the advantage of the butter; exactly the reverse of the soft, moist cream, unless raised as noticed either in pure air or in closed cans. Those who set milk in open pans in the "buttery" cannot fail to have noticed certain peculiarities about the ring are aithin wenty hors, it is alwas perfect, but it wenty how, that delay is necessary to secure n of the cream, the cream parts with its moisture and a tough cream results. This is sufficient reason or especially const ucted dairy rooms, in which emperature, air and moisture can be better con trolled than they can in a room adjoining the living part of the house-worse yet, the cook room
The artificial cause of tough cream is the scald ing process, often practiced to enable all the cream to rise. At best its only purpose is to expel dorects of the process meing which exist in the form warmth of the milk so high above the surrounding air as to cause the air to absorb the vapors arising from the milk and destroying germs of heat matters that had best been avoided in the start by
ripening, assimilating, and being tempered, is con-
veyed through large tin conveyors to 600 . yn illon churns ithree of themi), which stand to churving room three feet below. cream room, so that the cream runs direct from veats to churns. Product
butter runs about of butter runs about 2,000 lbs. daily. So far ove
100,000 pounds of butter have been shipped, and 100,000 pounds of butter have been shipped, and
a business nearly 300 per cent. greater than forme: a business nearly 300 per cent. greater than former
seasons is promised. The creamery has wash room containing hot and cold water and steam jets
Engine, 10 horse power; boiler, 12 horse power Engine, 10 -horse power; boiler, 12 -horse power
Two large wells fed by springs.
Elegant water Two large wellis fed. Two springs. pumpent one fo
and plenty of it. raising water for boiler and washing, and one used
for raising water to wash the butter. The mak for raiising water to wash the butter. The mak
last season was pronounced by "the trade " o
New York the best kept butter from State of Iowa New York the best kept butter from State of Iowa, have packing room, refrigerator room, shipping
room, and ice house of 60 tons capacity; six inch rilem, drains, one runs to buttermilk tank ; fou run from build ing and connect with main drain
ruin a which empties into a slough dredged one. of a mile off from creamery; one drain rain from
house to carry of ice drippings; one drom
wash room, one from cream room, one from churn wash room, one from cream room, one from churn.
ing room. Have plenty of water, hot and cold,
and ing room. Have plenty of water, hot and cold, are as sweet smelling as roses, when of duty
Have 300 patrons, and more wanted. Have 30 patrons, and more wanted. Capacite
5,000 pounds daily, if pushed. Gather cream 5,000 pounds daily, if pushed. Gather cream
north, south, east and west, covering 450 miles of territory.

## utter-Making as told by a Woman

## BY MRs. s. н. в.

When we used to use the common shallow tin while would come a appll of beautiful weather; then we used to pat our that's just.good enough for anybody!" But how very few such spellis would
come. It was either too hot or too cold. Muggy weather wa- our special Now we care little about it either way, so long as the water in oup creamery is cold en ough The men take enough of these to the barn and strain the milk warm from
the cow, and keep as closely sht as the cow, and keep as closely shut as
possible. When through milking, they loring them to the limp; there
sets an empty barrel with one end sets an empty barrel with one end
sawed off. Into this they put the can
saw dill the harrel with cold water as sawed off. Parrel with cold water as high as he milk in the cans, cover
all with a tight-fitting cu,ver as con venient, and leave it ouver as con-
until another venient, and leave it until another
milking. Then they bring them into the house. and serve the new milk ing the same way. When I get ready -that is, after the breakfast things are out of the way, and 1 haven the cane and dip the cream into crocks to set away until it is time to ripen for churning. pails.
to calves or pigs from the same pails
Now see what an immense saving of drudgery this is for me ! Instead of forty or fifty pans to skim and empty, to wash and scald and set in th
sun, three or four swill pails setting around with sun, three or four swill pails seting around with
more or less sour milk splashed about, h have only
to to wash these four or six pails that never had sour
milk in them, and $I$ am ready to go at something else.
I know
just how odd this must seem to one who has not iner heard of, but believe me, I am telling you actual facts. I have no axe to grind wha ever, only want io all. Let me tell you how to begin. Go to your tin man and get him to make you as many cans as you want-we like those about 8inches in diameter an
20 inches high, the best. Have covers mad reasonably tight, and a bail so they can be carried easily. These will hold about 18 quarts each, and made of good tin, ought not
cents each The object in having them so tall and slim is to bring as much surface of the warm mil to the cold water as possible; the cream being oily, will not become cold as soon as the water in
the milk. The result is that the cream, being both warmer and lighter than the water in the milk, the cream will rise much sooner than it would in
set in water. The colder the water the sooner the set in water. The colder the water the sooner the
cream will come up, but ordinary well-water is cold enough to raise it in four hours. In winter
water in the barrel more than once or twice a
month. In summer you have to change once or twice every milking. But should you have to change it a ding everlasting washing of pans, and much more the everlasting washing of pans, and much more
satisfactory because the cream is always in the best possible condition. You will get full as much, or more, than by the
sweet and free from odors.
If you can't fix it so your spring water will run
in and out your box or barrel, it will be very little in and out your box or barrel, it will be very little
trouble or expense to have an almost perfect arrangement. Give me a few boards to protect such a spring from the sun, and I wouldn't wonder if I could make as high-priced butter as you can in your $\$ 500$ not have to work half as hard, either. Of course, we would like to have a nice place to set our cream to keep cold until we are ready to ripen, but that is another
next month.

## Packing Butter.

 The Secretary of the British Dairy Farmers' As-sociation says he does not know of a better method of packing butter than that adopted by the consign-
ors of Brittany butter. Tons are sent to England weekly in rough pine boxes, holding two dozen pounds each. The butter is made up into two pound rolls, and is wrapped in muslin, with an out-
side covering of clean white paper. The boxes measure fourteen inches in length, ten and one-half by six and one-half inches deep; and as the lumps
of butter are made of uniform length and diameter, of butter are made of uniform ength and diameter, twelve of them can e easily, but closely, packed on
end in each box. This butter arrives in London beautifully fresh, perfectly clean, unbruised and uninjured in any way. The secretary further
suggests that boxes may be made to hold one or swo dozen half pound rolls on end in the manner
described. It is not necessary to described. It is not necessary to wrap each roll of
butter in muslin if it is properly made into rolls of butter in muslin if it is properly made into rolls of
equal size and form. The muslin used is called equal size and

Artificial milk is the next threatening competito f the dairyman. And knowing what is known of the artifices of the chemists, who are substituting or natural products the most curious and wot at al unreasonable to look for artificial milk. Already ing young calves. It is sold under the name of lactina, and is said to be much cheaper and bette and used now for some years, and the demand for it has increased so much that a company has been ormed with a large capital for its manufacture in cotland. Th arpes to as an article of food, al though it may not serve for the cheese maker But as excellent cheese has been made from pea and beans, the cheese factorymans occupation wil
not be gone although the cows may be.- [Dairy.

There is some misunderstanding in regard to the se of oil cake mea. It is generally supposed this tai ed in it. This view does not seem to be sustained by the facts. As in other nanufactures there are "new processes " in the making of vege
table oils. The residue of the oil is now extracted linseed cake after the first pressing by mean of volatile ethereal solvents, such as benzine, which dissolve every particle of the oil and leave
the meal so free from oil that it will not even stain paper under heated pressure. Such meal is conpaper ud of little value. But this is a mistake. It is of more value in the dairy than the old process
meal, because it contains more protein substances, as albumen, mucilage, etc., all of which not only
furnis flesh forming matter, but which also go to furnish flesh forming matter, but which also go to
form fat. Such meal is of more value in the dairy form fat. Such meal is of more to mix with starchy food, and it is devoid of the oil,
adds the needed protein and
which has always given a bad flavor and texture which has alw.
to the butter.

Slow milking of cows never secures the full prouct. The cow becomes tired of relaxing the natural position of contracting them. This makes
much stripping necessary, and a slow milker will much stripping necessary, and a slow milker will milking soon dries the cow, and greatly reduces
her value.

## Sarrespondence.

Nonce to Correspondants.-1. Please write on one side of hot paper only. 2. Give tull name, Post.ofico and Province, and to enable us to answer by mail when, for any reason, that course seems desirable. 3. Do not expect anonymous com-
munications to be noticed. 4. Mark letters "Printers' Manumunications to be noticed. 4. Mark letters "Printers Manu
script," leave one end open and postage will be only 10. per t We do not $h$
ounce
We

Sir,-I am well pleased with the paper. Also seeing you give south complaint, \&c. I being an old country man, and being in the butchering and grazing in the old country, know something about cattle. this disease; all that I can tell them is that it is disastrous with milking cows, stopping the flow of milk and bringing all cattle down to pov-
erty. I do not think London, England, market is erty.
ever free from it, though they use every precau-
tion.
I. R., Zimmerman P. 0 .

Sir,-A writer in the Montreal Witness, after praising your article in the July ADVOCATE, on "A
mixed husbandry," instead of so much wheat, goes further, and advocates dairying as a method of enriching land. I remember an old man, who thirty tories about the large number of cows they kept when he was a boy; but they came to the conclusion that their farms were getting poorer, so instead of keeping so many cows, thes of oil cake
fatted cattle, using large quantities one with the turnips, believing that the cake much enriched the manure. You are aware that the rotation there iswheat, turnips, barley, hay, every fourth
year. How many Canadians have seen from fifty to a hundred acres of turnips in one field? Some farmers here would think the man mad who would hire some
one to cut and feed green food to his cattle all one to cut and feed green food to
summer, as was done in England; but I see no reason why it should not pay in Ontario, as well as there, especially if they could save the liquid
manure. The main objection would be the want of sufficient rain to make artificial manures availof for plant food. This summer has been splendid in this direction. I once sowed, in the spring, a
barrel of Brockville superphosphate on some half an acre of rather poor loamy land, for barley, and on one place sowed a double quantity, but could
not tell that it did any good to that crop, or any not tell that it did any good to that crop, or any
one following. Well rotted manure harrowed in with fall wheat, "counted " at harvest this year; but there is very little "plump" fall wheat; but yet). By the bye, an old shepherd in our country used to remark that they never had any trouble with ewes at lambing time till they began to sow guano on the land for turnips. T. W. R., Bewdley.

Sir,--Enclosed please find two bugs which 1 ound on my peach trees. Be kind enough to inor otherwise, and oblige a subscriber.
Wm. A.. Queenstown, Ont.
[The insects both belong to the family of tree ags, Hemiptera, allor which the puncture the sof tissues of plants and trees, also fruits and sometimes other insects, and feed on the juices so ob-
tained. They are seldom found in sufficient numbers to require any remedy.]

Sir,-Will you kindly let me know through the ensins of your next issue the best and least ex
pensive mode of reducing bones to the proper state to apply to land as a fertilizer, and oblige e
E. R. B., Charlottetown, P.E.I. [You can reduce your bones two ways. First
by chemical action, and next, mechanically, by rinding. Chemically by sulphuric acid, diluted and allowing them to remain until they are dis solved or turned soft. They can also be reduced y covering with unleached ashes. After the bs an absorbent. Mechanically, bones can pe reduced by grinding; machines for this purpose can Wilson \& Bros., in August number.]

SrR,-Will you kindly answer the following uestions in the next number 1st.- What is the best time to prune apple trees 2nd-Which is better, to plant strawberries ate as the end of October, or leave them til spring ; also currant bushes and gooseberry bushes
3rd.- Where could I get a gbod book on the management of horses, including shoeing and care of both working and trotting horses ?
A. A. M., Mitchell Squar
[1.-There is a difference of opinion on the sub-[1.-There is a difference of opinion on the sub-
ject We prefer pruning when the sap has stop-
ped flowing, or when the trees are in bloom ; then ped flowing, or when the trees are in bloom; then again you can see where all the dead branches are
2. The better time to plant strawberries is in the fall-early in September. Your only plan now for planting this fall is to get potted straw If these cobt the obain until apring. 3.- Youatt, Williams,', and Percival are all standard authors.]
Sir,-Could you tell me of any method to de stroy burdocks beside pulling up by the roots?
IThorough cultivation is the only method we recommended, such as the application of coal oil and salt, but we doubt the practicability and
efficacy of these in destroying them. All the stalks and burrs should be burned every year, a
the plants cut frequently during the summer.]

Failure of a Lightning Rod.-J. H. B. sends an account of the burrning of a barn by lightning. The barn was supposed to be well protected by sition wound with copper wire, put up at large ex seemed to be a great deal of it among the ashes. He says the most interesting question among the burned by lightning if lightning-rods are a protec. tion? The rod should be sunk in wet ground to a good We properly erected; we know of no other causes. put up in the country in a slip-shod manner by unreliable firms. Farmers should see that they
deal with honest firms. Try the Globe Lightning Rod Co. of this city.]
Sir,--Please give in your next issue a simple Sthod for storing onions and cabbage, and oblige.
W. T., Thamesford. [Make as deep a pit as can be made with the plow
for onions and cabbages in a dry, sheltered place near the house, scraping out all the loose dirt with a hoe, and putting in some chaff or straw from the the onions from where they grew and pile them in carefully on this, and put more chaff on top and pack it smooth with of dirt from each side, and main part or all of the winter, or until wanted. come out all right when the frost leaves the ground. Cabbage may be pulled up on a dry day and packed in the other end of the pit, roots up, or the onions can be taken out as wanted. The cellar is one of the worst places to keep onions or

cabbages in, as it is almost always too damp or | cabages |
| :--- |

Sir,-Would some of the many correspondents of your useful journal give me some description of
the free grant land in Manitoulin Island, and also inform me where I could procure a copy of the Government Guide for the use of settlers?
G. W. B. S., Davenport, Ont.

Sir,- What depth should drains be dug? My land is mostly wet, and crops uncertain.
H. R., Charing Cross. [Drains should be 3 feet deep at the lower end
at least. When the ground is nearly level, and -2 feet This will add 1 upoor to the may be only
fort draining alone will not restore worn-out land. On
the contrary, unless the land is manured, it will only help to further exhaust it. Still, it is a
ond waste of manure to put it on wet soil ]

October, $18 ३ 3$
MHL FARMERR9 ADVUCATE. Brock, county Ontario, to purchase some shmop-
 breeder of that part, built his harn in 1879 , $7 \times 108$ ft., on stone basement full size. James St. Sohn,
sr., built his barn in 1881 , $80 \times 80$ ft. James St.
St.
 Humhrey built, his baran this season, 75x112 fit ft
Those barns are all in a mile square, and all on Those ebrars are all in a mile suare, and all on
stone basement, full size. S . D., Kirkton, Ont.

Sik,- What is the matter with the sheep?
During the month of May many of my sheep took During the month of May many of
sick and died, and on making a post mortem, examinati i n I I fount
balls of wool in Cie stomach and tape-worms in the intestines.
Now, I would like to know if the lo the tape-worms cause the wool
 through the ADvocate what will
cure the disease, or prevent it, you cure the eisease, or prevent it, you
will confer a g great faver on this
 neighbors' sheep are afticted
the same way. Aherfoyle, Ont.
[There is no connection be. tween the tape-wornection bool
ballus, as you wall them. whe balis, as you call them. The
former orivinates from germs or
spores that have bcen picked up rom the exc:ements of dogs oi sheep. Dogs are a main cause for
all kinds of worns in sheep. The
wool found in the stomachs of wool found in the stomachs of your sheep had been eaten by the
nimals from a depraved appeanimals from a depraved appe-
tite caused by irritation of the
intestines by the worms. intestines by the worms. The cause of death was, no doubt,
from the worms, as the wool-balls, unless of large, size, will not ciuse
death. For cure, see letter from death. For cure, see letter from
T. W. R., Bewdley P. O., in Sept. issue, page 277. The worms can often be expelled by a dose

Sir,-World you kindly let know the best time to manure and when to prune them, as we have some apple trees about 8 years old which look well but
bear nothing? Also, will osage fences grow in New, Brunswick? If so, where can the plants be got, at what price, a
D. S. S., Petitcodiac, N. B. IThe fall of the year is the best trees. For time to prune see our answer to A. A. M. in this paper. If planted properly and cared for
while growing, should think the osage would grow in New Brunswick. We would like to hear the experience of some of our readers
in that Province. Any of the in that Province. Any of the
nurserymen using our columns could supply the plants.]
Hybridizing Wheat.-H. W.
N., Newmarket, Ont., asks how to hybridize wheat.: To hybridize wheat is a very delicateo operation, and require
botanical knowledge of the plant wheat are mature before they come; only the chaf and the germ is fertilized withinthe chaff before the
is seen. For this reason wheat will not flowe mix in the field, and the mixing must be done arti ficially. To do this the chaff is opened very care fully, one flower at a time'; the anthers are re
moved, and the pollen from a different kind is brought and applied to the pistils. Great experi ence is required to do this successfully. The grains thus produced acourse are kept by themselves, and the grain produced is sown year after year un til sufficient is procured for a crop. And then
out of 50 hybrid wheats may be worthless after all out of
the trouble taken. The man who thus produces a
Theod new variety deserves a good deal more than good, new variety
he ever gets for it.

The Red bed or Judas Tree (Circis Canadensis.)
pears at a distance somewhat like an apple and preminm for the "ADvocATr. They have grown appears at a distance somewhat like an apple tree around as a protection in the winter, also how the leaves are round, heart-shaped, of a buish green would yon advise as to pruning, etc.? How many
pounds of timothy seed and alsike $m$ abed should be sownds of timothy seed and alsike mixed acre, also each separate? J. E. W., Osprey, Man.
[Banking around would not prevent the fros reaching them. Better tie straw pretty thickly or litter. The danger is not so much from freezin or litter. The danger is not so much from freezing
as from thawing and freezing on bright sunn
days. It is not advisable to prune the young sion and produced, before the leaves appear路, not only on the wood of the pre yours old and but upon branches that are several dividually small, the fowers trank itself. Though on as to quite cover the tree, which, when planted
or orname ornament, should be set tagainst a baekground
 fruit is a flattened pod with nu
merous seeds. The wood is hard and capable of receiving a fine
polish. Upon the continent of Europe the flowers of the Euro pean species are used ,in salads
and fried in butter as fritters, and the flower buds are pickled in
vinegar. It is said that the early vinegar. It is said that the early
French settlers in this country
made a similar use of the flowers made a similar use of the flowers
of the American species, which of the American species, which
have a pleasant acid taste. This
is one of the native trees which is one of the native trees which
has received too little attention from planters, as it is pleasing at
all times, and highly ornamental in early spring, flowerring at the
same time with the Chinese mag. same time with the Chinese mag.
nolias; it may be planted among nolias; it may be planted among
them in groups with fine effect. It deserves to be classed among

## The Government Sale of

 stock.(Continued from page 297.) The following list comprises
the stock sold by the Model Farm in the afternoon:
BHEKP
sHEEP
3.Shean Cotaswolds, Wm Argo, Eden
Mills, Ont., \&30.

 Head, Mrad Merino, George Hood, Guelph, shbaruisa rama. Four Cotswolds sold as follows:- One
to WC Smith New Hambur,
to Thomas Manderen one
 $\$ 23$ south Downs, one each to Charrees
Kay, Ferkus, s17; DJ McLennan, Gler. wold ram Langes.



W C Smith, Hamburg, 820 ; Fred Pen.
Con, Maple Hill,
218.
 soctu downs-rax Laxıs,

 Arch Cearns, Flesherton, three for 821.
br A Norris, Spencer, N. Y., three for 8 \&
 E Kennie, Hamilton, two for 848.
W Howitt, Guelph, three for 845.

trees, except to cut away the dead portions, if
there are any, in spring; when the trees Äre older
they can be trimmed to any shape required. About they can be trimmed to any shape required. About
lbs. of clover and 4 of timothy mixed. or 8 lbs. of cloverand 10 of timothy per acre, if sownseparately.]
IA larye amount of correspondence is unavoidably crowd
out of this issue, and will appear in our next.)
The Red Bud or Judas Tree. We give an illustration above of this very orna xceelin the th is a small outhward and westward, though especially on He banks of rivers. Tradition has it that for tharting prices given:-Thomas Waters, Eramoos, sis, and
this species, hence the name. When not crowded









FAT SHERP.
 seld in nairs: Mark Langdon, set Ceo Hod


 Houth, Erin, 830.

## 

John Hewer, 225.
Tohn Hewer, $\$$ scotch collie dogs.

The total sum realized for cattle, pigs, sheer
and dogs was $\$ 11,720$, and the sale concluded at ix ooclock.

## Farmer's Clubs.

dlmira, N. y., farmer's clet

We condense the following report of a recent Among the subjects for discussion was "The best way to dispose of old straw by putting it upon wheat land."
O. M. Wixon. I would work that straw into
O. soil by dragging. I drew eight big loads on the soil by dragging. I drew eight big loads on
ten acres of land plowed for wheat. After spreadten acres of land pos I could, I dragged the ground for or five times, and kept men engaged spread
ing the straw after the drag rolled $i t$ up in wind Ing the straw after the drag toll working I got it
rows as it did. By repated wo
mostly into the soil, then I sowed wheat, and mostly into the soil,
dragged that in well. Tho crop messured 321
321 bushels straw largely for the good yield. The soi was clay
broadcast.
C. Compton. Straw may he spread after the
seed is sown. I don't know how thick, but prob ably the plants would come up through three in
ches if not closely packed. W. A. Armstrong. Neither of these ways is the
best. There is no practical need of working the straw in at great cost of lator, and into the soil a when the straw is spreal upon the surface. It true that somethngirenents of the soil. In very
gard to the requiremen wise tends to lighten the soil and correct a fault on the othe difficulty. The purpose of spreading crease on wheat fields is not to enrich the land
straw fertility must be protect the plants from exposure
real object is to protec real object is to protect
d ring winter. I wout put straw on three
inches thick, just after sowing the seed, for there inches thick, just after sown covering would hav
can be no doubt that such ove can be no doubt that sitality in the plants, growth
the effect of redding ving
would be spindling and weak, the color yellow in would be spility, and the plants in this condition
dicating delider
would be more liable to take injury in winter.

After the plants have made such growth as they
may in autumn before freezing, when they are vigorous, apply the straw mulch not thick, but ovject which we expect to accomplish when spread ing straw on crops. In this case my opinion is that it will be well to put the straw covering on
after fall growth is substantially completed, then spread evenly and so thin that light may reach the plants below. In this way every purpose contem-
plated will be accomplished, the wheat will he proplated will be accomplished, the wheat will be pro-
tected from raw winds, the straw will hold snow,
which in itself is a useful covering, the land will which in itself is a useful covering, the lanass in
be in the best condition for seeding with gras he spring, or if timothy is sion. President McCann. before the seeding and I found the crop much bet ter on the land so treated than on other land left
bare. The grass seeding was also better The grass seeding was also better. I be
lieve the right way to use straw on wheat or rye is to apply it after the plants have obtained some
growth, for when they are compelled to work thei way through much thickness of straw or othe covering, they must necessarily be enfeebled
There is one important matter to consider whe here is straw as a mulch on wheat or rye. It should be free from foul stuff, otherwise it may do injury
by seeding the land with weeds. Co an acre?
President McCann. I cannot answer the ques
tion definitely. I should say lion definitely. Iorshould say a arge load at the least, perhaps more. The mand not very thick so as to impede growth. As to the
The following also came up for discussion I have a piece of land that has been in pasture many years that ought on ereseened. Nould like to be advised if I can re-sed this ground without plowing. If so, how to go to work W. A. Armstrong. Yet there is a way. I have The best treatment, when land can not be plowed,
is to draw on stable manure enough to make is to draw on stable manure enough on make a
good dressing, draw it as early as practicable in autumn, but it will do of the work is not done until snow comes, say in January. Spread it as
drawn, and spread so evenly that every portion of drawn, and spread so eveny is all until spring. As
the land is covered. That soon as frost leaves, or even when it has left but
three or four inches at the surface, sow timothy, clover, orchard grass, red top, June grass, and
every kind, then put on a heavy brush-drag and every kind, then put on a heaty a litle into thace. Of
work the mannure a
course, it can not le thoroughly worked, but the course, it can not be thoroughly worked, but the
seed will attach to the manure, and ly brushing seed will attach to the manure, and wy brushing
the fild over thoroughly the manure will be
slightly coated with soil. The effect will be to slightly coated with soil. The effect will be to
supply the right conditions to promote growth of supply the right conditions to promote growth of
the seed, and chances will favor a heavy growth of grass that season. In my experience I have ob tained $i s$ heary growth as I ever got from any
treatment, but it is not lasting. The second year the crop will be lighter, the thiird year lighter still. Fxhaustion comes on too rapilly ; in three or four years it is proha.
old condition.
President AcCann. If t is possible to plow the back for another on which grass seed may be sown; that may be better. It is never safe to seel on and already in sod : the chances of stocess an picd by the roots of weeds or something els partia
with manure may be possille to get partial success.

The Markham Warmers Clmb.
The Sentember meeting of the Markham, farm, there being a large attendance of members ing was called to order by Mr. Gibson, president
of the club. who referred to the pleasing fact that o many rembers were in attendance, which, he
said, was an invariable occurrence when the meet ings took place at Mr. Rennies s, as there was in which he conducterl his affairs. his adiniration at the numbers present, which he claimed was a complinent to nr. Renmie, who managed his farm with such ability that it
now recognized as one of the modelfarms in Ontario
where many practical lessons in agriculture could e readily learned by the most unobservant.
Mr. Wm. Rennie thanked the members for meeting at his residence, and was glad the veteran armers' club was increasing in members as well as
in usefulness. With regard to farm buildings, he n usefulness. With regard to farm build ings, o more readily convey his ideas to the member had prepared a plan of what he thought would Rennie then entered into a detailed description of the building, which was a large one, capable of ac-
commodating live stock, storing fodder, roots, rain, farm implements, etc., being oblong in shape, with doors in each end, and traps in loors for the convenience. Mr. R. claimed that
lower story with roots, etc. Ming a great deal of time would be saved by farmers in the busy season if such a building was ased, every product of the farm lessen the labor not only
building, which would then, but in winter time, as cattle stalls could ber so arranged that the cost of attend.
them would be greatly diminished. Mr. Boyd referred to the benefits the club de.
rived from meeting at Mr. Rennie's, as his system rived from meeting at Mr. Rennie's, as his system who had inspected his farm, and if the style of barn he had described to them would be as successful as his farming, the clu
tions to Mr. Rennie.
bun throtgil mr. renvie's farm Mr. Rennie's farm is distant from Toronto some being in bush. The land under cultivation is entirely free from stumps, stones, and Canada
thistles, well underdrained, almost level, the soil being clay loam, in some places slightly inclined to heaviness. The buildings are located in the centre of the south front of the farm, and consist
of a capacions two-story dwelling gardener's resiof a capacious two-story dwelling, gardener's resi-
dence, driving shed and root cellar, live stock stables, barn, and piggery, six in all. The twel
ling hor ling house is surrounded by a well kept lawn, or-
nanented with a handsome rockery, filled with choice plants. The display of lroken-down wagons, superannuated reapull, rusty
headless churns that are usually found in farmers headless churns thatere conspously absent. Immediately north of the dwelling house is a neat and snug cottage the driving shed and cellar, where every
west is the convenience for the rapid performance of work a once meet the eye. Further west are the piggeries and live stock sta the being ample accommodation
and cleanliness ther for twenty-eight head of cattle and a score or two of pigs. To the north harn, with a lower stor
the driving shed, is the for the accommodation of horses, etc., where the same neatness that is visible in other buildings is at once perceptible ln the square formed by the
four buildings just described are hundreds of loads of fine manure, so rich that one can scarcely tak a step without treading on an incipient mushroon, season on the field set apart for roots. South-east of the piggery is the "pet patch," or trial ground, Howers of all lives and piants of almost every description. One portion is set apart for experiment cing undert vatitaties of fhem are Martin Amber nd Bonnell, samples of which were sold $f(r$ the first time in Canada this fall. Eight new varie ties, 'analla, are also being experimented with, and are known as Golden Proific, Golden Russian, Oster's Hybrid Clawson, Oster's Amber, Velvet Chaff,
Hybrid Mediterrancan, Pure Gold, and Red Russian, all of which are doing well. In another plot
experiments are being made with grasses, five different kinds being under test. For permanent
pastures two are under test, one for low lands and pastures two are culder test, one for
the orther for ligh lands, eleven different varieties of grasses being nsel. Next in order comes a preparation for hay to be followed by a meadow, low lands, aljacent to which is a similiar experi
ment for high lands, the next plot being devoted no experiments with a mixture known as the Rapid
trowing, from which half a dozen crops can be Growing, from which half a dozen crops can be
rathered every season. All: these mixtures are, so to speak, Mr. Remine's own inventions, and comprise every useful variety of grass frown are seeded
ada. About 40 acres of the west front with clover, 27 bushels of seed having been sown
to the acre, and in this fine pasture are browsing
sheep. As soon as winter sets in Mr. Renr ie houses
these animals, feeds them on roots, mealand grain, these animals, feeds them on roots, mealand grain, pasture field runs a stream, afording not often enjoyed for the cattle, a luxury that
without considerable expense to the owners. In
and order to give our readers an idea of Mr. Rennie's
practical way of managing affairs, it is only practical way of managing affairs, it in in $n$ neessary to state that this strea a is composed of the entire drainage of his farm, and furnishes a water supply for his cattle of an eventemperature. She central field of the farm, another a road,
stretch of very level land, is divided by a
the southern part is in barley stubble, now being the southern part is in barley stubble, now being
ploughed, and next year it will be devoted to roots,
to ploughed, and next year it wand meadow. Passing through a gate an entrance is made to the eastern fieid, about as large as the one just described. The
northern section is in meadow, while the south is devotéd to roots, ten acres being filled with mangle wurtzels. Among the new varieties noticed were
Red Tankard and Goldeu Tankard, this being the first crop of the former ever raised in Canada. All
the varieties of sugar beets worthy of cultivation as food for cattle occupy the next plot, which is fol Red Weathers field variety, Remnie's Selected Nonpareil lettuce, Golden Wax beans, Dwarf German Wax beans, and alt the new varieties of potaToes which are
This brief sketcc will give our readers an id ea of
how Mr. Reunie manages his farm, his first effort how Mr. Reunie manages his farm, his first effort apparently being to establish a system. Indeed
there is a method connected with the performance of every detail, no matter how triffing, and a reason
is given why it should be so done. The owner of is given why it should be so done. very observant,
this farm is thoroughly practical, with means at his command and brains to know
how to use them. He has around him valuable how to use then. He has around him caus, the
assistants, among them being Mr. Burgess, assistants, among them boen about roots, horticulture, Canadian thistles, octagons, and parallelo-
grams than any other man of lis years, and he has grams than any othrer sare and ten, yet he is full of life and vigor. Since Mr. Rennie brought his
broad acres to their present perfection, he has stirred up the ambition of some of his neighbors. prize farm contest belong to Markham township And it is a pity that the owner of the farm im mediately south or Mr. lennie wass ot among the number, as but unfortunately he devotes too much attention to the culture of admirable a crop that has succeeded the entirely outstripped portions of a the thistles
field of oats.

Pig Breeding.
by w. Coodwin, JUN.
All breeders who desire to improve their pig
tock or keep up their herd to a high state of ex stock or keep up their heri to a high state of ex
cellence, must be careful in the selection of a sire Alerta, amount of laxity may be permissable in
A ce females of a herd, when the sole objict is $t$.
the Are females of a herd, then en soen a high-class
breed for slaughter, but even then
boar is of prime importance, and much more so boar is of prime importance, and much more s
when the formation or maintenance of a pedigre herd is the breeder's aim
we must look to the good qualities of the futur herd, and were it with which or reanon than herd is im proved by the judicious use of a few well-bre
males, this would be of paramount consilderation it must be remembered, however, tyat a ander-sized sire has as much, or even potency to deteriorate the progeny of a herd of to improve those of twenty under-bred ones. Consequently, while the introduction of an inferior dan
to a herd may result in comparatively small loss, the selection of a faullty boar may do almost irreparable selection of a
injury. It is

To The mine he ha hatm The boar should be of perfect symmetry, and
show in a marked degree all the attributes of the appearance, a head far removed from coarseness appearance, aroad jowl and sharp face betoken greap
and whose broan
aptitude to fatt en. He need not necessarily be up on an extra large scale. Indeed, the short, level
backed on an extra iarge scale. Thick,
backed at shimal, of equal thers
loins, and hams, and generally a compact form,
my choice. Fine in bone, with hams and shoulders
almost down to the ground, well covered with long silky hair, betoken good constitution, and ameliorafine quality is a guarantee of their careful breeding. Such is the typical sire.
Coarse bristles are th.
Coarse bristles are the accompaniments of coarse
hides, and vice versa; and it is a matter of imhides, and vice versa; and frequently overlooked, whether phe brealfast rasher is, as sometimes, nearly one-
thourth rind, or whether the latter is almost as thin fourth rind, or whether then the quality of meat is
as parchment. In addition, always finer in the latter case than in the former. Most of the improved Essex
bad, in a mave met with have of skin and quality of meat.
Having found an animal that individually combines the essential good qualities, it is neceessary
to inquire about his progenitors, and especially his dam. I have found that, as a rule, the young male perpetuates in marked degree the charactere It
of his dam, and the young female of her sire. follows, then, that, however expedient it may be for the pork-producer to breed from inferior or
faulty female specimens of the family, the boarfaulty female specimens of the family, the boar but a good-shaped sow of the highest quality and characteristics; not only so, but her nursing
powers must be duly considered, as they are of powers must importance. It is as requisite that the pig should be able to nurture her offspring,
and be gifted with a plentiful supply of milk, as and be gifted with a plentiful supply of milk, as
it is for the dairy cow to be so, while there is as it iu for the dairy cere in this respect between individuals
much diferen
of the one tribe as the other. Yet it is only from of the one tribe as the other. Yet it is only from
a dam so constituted that a young boar should be a dam so constituted that a young boar shorge ex-
sele ted, as this milking gift is to $\alpha$ very large sent inherited.
The difference
The difference between a sow whose milk is
plentiful and oue who has but a scanty supply is plentiful and oue who has but a scanty supply is
very apparent in their offspring. Those of the
former grow with rapidity former grow with rapidity, and lay a foundation
for future thrift and early profit, whilst the latter's nover fully recover their early stint. I strongly never furs then, that boars sbeuld be selected from
advise, dams who possess good milking properties. As
fecundity is a matter of great importance in the pig, and the capability of nursing a numerous lit ter of quite equal importance, it is well to see that Piggy dues not brook any partnership in the one he has selected. Therefore a sow should have from swelve to fourteen well-developed teats, and then manner I prefer a boar selected from large litters and from a prolific sow
In selecting sows for
In selecting sows for the general stock, breadth
and depth of frame are of paramount import and epth of frame are of paramount import
ance. With this should be lalied as many of the
characteristics of high quality as can be obtained characteristics of high quality as can be obtained
when a breeding herd is intended ; coarseness wher a of hide, hair, or head, should never be con doned, and though it is not absolutely necessary to adhere to the compactness of form, as in the
boar, still the sow should be built upon level lines, and be guite even and symmetrical.
darge-framed boars.
When it is desiratle to increase the size of
herd, a boar upon a larger scale may be selected or introduced; but, as a rule, the symmetry and
quality should be the prominent features of the boar, and frame, united to as much symmetry and
quality as possible, le those of the sow. Taking the White breeds as examples: to improve th
quality of the Middle breed, or give greater scale to the Small, selece a Middle sow and Small boar and, in the same way, when of the Large breed, and a good little boar, and With all the frame and fine growth of the Large,
with the feeding tualities and hair of the Middle might be obtained. This, it appears to me, is ma
sufficiently appreciated ; at least, the great ma jority of the Large White pigs I see la
profitable aptitude to fatten. When
pork or bacon
is the sole aim of the breeler, I I an free to confes
that the produce of what may be designed Medium that the produce of what may be desiged perhaps
bred sows are proftable as any and pand crosses, as betwe, are most profitable of all ; bu less for breeding purposes. Some such breeder of White pigs, when grazing is resorted to, find it more economical to keep thickset sows of They say
type and a lengthy large-framed boar.
that the Middle class of animals are kept more
eoonomically than the Large, consequently it is
cheaper to keep twenty cheaper to keep twenty small eaters and one
large eater than rice rer correct, and when all the young are consigned to the butcher it is a plan that has its advantages.
But the sows should be the selected ones out of But the sows shoeden the free growth, while the boar should, though following the type of the
Large, have Middle blood in his veins. NeverLarge, have Midde biod in inch inctances it is. rarely we find uniformity in the herd, and it should only be
resorted to in exceptional cases, and with the ut. resorted to in exceptional cases, and with the ut.
most care and consideration when high.class stock is kept for breeding purposes.

OUR NORTHWEST.
The Hon. H. G. Joly gives some good advice The Hon. H. G. Joly gives some good advioe and also to farmers about the introduction of noxious weeds. We hope our farmers in this country will profit by his remarks, and follow his instructions. In writing to a contemporary he says :-She,-The Northwest is the land of promises for ing must be a matter of interest with you. One of the great advantages of your virgin soil is that
it is still free from the noxious weeds so plentiful in our old settlement of the east, where they have been imported from Europe. How long win it re-
main so close to the most beautiful fields of grain, along There was none among the grain, only on the side of the road. Evidently the see
and there were not many plants.
and there were not many plants.
It would take but a few moments to pull them up, before they are ripe; if allowed to ripen and scatter their seed, every farmer knows how much
trouble they will give. It looks such a pity to let that weed and other weeds of older countries, in vade your land. Now is the time to stop them keep them out by a regular quaranne as you have
would the plague, and if you find that they have broken through, and on some places, deseroy then before they can multiply and
(By "quarantine" Imean that all inported seed
in ought to be inspec
sold for seed also.)
I hope you will takémy intrusion in good part hough perhaps I ought not to apologize any mor $\begin{aligned} & \text { that your barn was on fire. } \\ & \text { Believe }\end{aligned}$

Quebec, Sept. 10, 1883.
PRofessor tanner's return from his tour oy inspection.
Professor Tanner has returned from the North
West, and although he is reluctant to anticipate West, and although he is reluctant to anticipate
his formal report-which will be published im. mediately on his return to England-he states tha
he does not find the land nor the water of tha e does not find the land nor the water of tha niform high qualty which some proper exercise
it to be. With prudent care and of good judgment, both, he says, may be obtaine
a satisfactory character, and nnder condition which will favor successful results. He did no hinit his journey to the railroad, which passe nut drove over a large extent of prairie lands, thu coming in direct contact with the farmers holdin he land. His report is favorable as regards th work this spring have succeeded well with their first crops under the very imperfect tillage given.
He is greatly pleased with the Bell farm, but re. aards it as holding an exceptional position, both by reason of its large extent and the large capital
cmployed upon it. He regards it as being of high ational importance, as showing the perfection and established and carried out.
With all the attractions of the prairie, he still egards the older-settled Provinces as posessin
many and great attractions for those English an Scotch farmers who cannot sacrifice the hom
comforts who are so dear to their families. very truly urges that these considerations mus enter largey int othe calculations of farmers, wh Country, and who cannot face the deficiencies of
newly-settled district. For these reasons he re
gards a process of replacement desirable, whereby and enable the latter to pioneer into Manitoba and the North-west.

Farming in Manitoba.
I have thought, perhaps, a few remarks from me may escape the waste paper basket. Tvery strongly against this country, I cannot say whether from personal experience or from hearsay, but am of
opinion it must be the latter ; the statements made must be very confusing and unsatisfactory to
the intending settler, and are very apt to deter the intending settler, and are very apt to deter
many a good man from coming here. I took up land here, and began breaking up the virgin soil in April, 1882, and have just commenced to harvest
my first crop. We have three self-binders workmy first crop. ing on the farm, taking three horses each. I began ing on the farm, taking three horses each. I began
cutting wheat on the 16 th of August, and hope, if favorable weather intervene, to finish cutting in
about three weeks. I have forwarded by this post about three weeks. I have forwarded by this post
samples of the grain now being cut. I may add
that samples of the grain now being cut. I may add
that I commenced seeding on the 16th April last. I think these facts will be far more convincing to your readers than anything that may be written by country. As to the root crop, I have never before seen such a fine sample as we have this year; they brought some small fruits with me from Ontario And so far they are a success; , a sample of the foli ge of the "Wilson Albany" strawberry I hav formation on this point at some other time. I also put in some studs of "white ash," and of other
Ontario forest trees, and they are up and looking Ontario forest trees, and they are up and looking
well. Cattle can be, and are, raised here very successsfully, and become quite fat on the prairie grass without any grain whatever. As in Ontario,
we have to shelter them during the winter, but with this advantage, no grain is necessary; we
brought our stock through last winter in good con dition and without any grain. On the subject o here but for the Ontario papers. As a fact, two yeoung men left this neighborhood for Dakota, after selling their homesteads, the principal reason being which has come to my knowledge.
On the other hand, there are several settlers around from the States, in fact my next neighbor
who has land adjoining mine, is from Kansas, where after seven years residence, he contracted the ague and lost nearly all his means, he is delighted with
the change. Personally I consider the soil all th the change. Personally I consider the soil all that
can be desired, and the crop which I am now cutcan be desired, and the crop which I am now cut-
ting is quite equal to, if not superior to any $I$ ever saw in Ontario,
As to the climate, it is far more enjoyable than ant; we were able to work out nearly every day with very little inconvenience ; the depth of snow
never exceeded twelve inches at any one time, and the roads consequently were excellent for sleighing the roads consequently were excellent for sleighing, were left open without any fear of injury. Th
summer is all that could be desired; perhaps summer is all that could be desired; perhaps I
should draw attention to the fact that there is a very heavy dew each night, which appears to be
sufficient to insure a luxuriant growth of all kinds of vegetation, and there is also a very large propor
tion of sunshine, which in another importan element in farming. Robt. Lang. 20, 1883 .

## Fruit Culture in Manitoba.

 address by mr. william saunders at winnipeg. At a meeting lately held in Winnipeg to discussthe question of fruit raising in the Province, a number of experts gave their opinions.
Mr. Saunders stated that in Ontario he had been
accustomed to speak of injurious insects. He had brought his collecting apparatus with him, but so far he had been unable to find any insects except
a few house flies and an odd mosquito here and there. (Laughter.) He had accordingly given part of his apparatus to a gentleman who was going on
to Calgary. He had that day examined with some interest some of the native wild plums with the idea that he might find some traces of curculio, but he had not found any. He thought we might look
forward with some confidence to being able to grow plums without the great trouble experienced in Ontario from that source. He was also glad to see
currants were free from the green worm which gencral use of hellebore. He had also found no trace of the Colorado bectle, and he congratulated
this Province on the absence of these pests. In reference to forestry, he differede to some extent from
his friends who had preeed him. He did no believe Mr. Beadle's theory concerning the roots o the apple tree. (Laughter) He did not see why,
on the same principle, the roots of the plum tree
and the ash. and the ash-leaved maple should to start with a highe
aftected. He would also try to standard of apple than the crab. If seed wer
grown from varieties which ripen far to grown from varieties which ripen far to the north
the seedlings raised from these would be hardie than the parents. Cultivated varieties of fruit did not reproduce themselves exactly. At Sault Ste
Marie he had found farmers trying to grow apple from the more highly favored portions of Ontario But they had failed even with the Red Astracan which was considered a hardy variety, A farme and the result had been that the growth was reasonably large; and of the varieties of fruit many wer was worth repeating by taking the seed of fruit that ripened here and sowing them. The cral originated in a climate which was not subjected to very liable to blight. In many parts of the Western States, as Iowa and Minnesota, great difficulty was difficulty might be partly got over by protecting tificulty might be partly got over by protecting
the trunks of trees. In the spring, while one side was exposed to the hot sun, the opposite side was requently exposed to a freezing temperature, an He held that seedlings would probably produce
Hood varieties, as they would be free from th Good varieties, as they would be free from the anger from tro she fact of the root and the stalk being very different in their character, and from which cause disease was apt to result.
In connection with the subject of small fruits nd the Cuthbert red variety was one of the largest nd best flavored of these fruits. The fruit of the
Black Cap came in a little earlier than the varieties of the red raspberry. The Mammoth Cluster and the Gregg were also black varieties that were
tolerably hardy, and they succeeded wherever the Cuthbert and the Hanson succeeeded. Wherever Crosses be tween the Black Cap and
very hardy. (Applause.)

## Magnificent Wheat.

## prodece of the canadia.

A simply superb sample of wheat Canadiaul North-west was shown on the Corn Ex-
change, Montreal, a day or two ago. The sample was beautifully regular, perfectly free from admix
ture of other varieties of wheat, or of other grain ture of other varieties of wheat, or of other grain
or seeds, and was as clean and bright as if passe or seeds, and was as clean and bright as if passed
through brushes. The berry is clear red, brigh
skinned, hard as flint and very plump The skinned, hard as flint and very plump. The whea
is of the famous Fyfe variety. It was grown on is of tele famous Fyfe variety. It was grown on
the Bell farm. The preparation of the land con sisted simply in breaking up the prairie; no back
setting was done whatever. Yet the eight hun setting was done whated acres under wheat yielded about twentythree bushels to the acre, or 18,400 bushels. This
wheat will be sold for seed in the North-west. The efforts of a few prominent milling firms and other to introduce good varieties of wheat in the North
west is a shrewd business move and it is at the sam time doing a great benefit to the country
Before winter sets in look out for splits in trees
Remove the limbs or securely tie them up. 'Wher crotches have been cracked and weakened by heavy bearing, they are often broken by the sno
of winter if this precaution is not taken.
Green Manurisg.-The best farmers never
allow land to be idle. With ground, as with people, idleness is productive of mischief. Weed
will grow if no wheat has been harvested sow peas or some fas growing crop. Plaster applied in connection with
this will greatly enrich comparatively poor soil. Select the land that you are going to plant to po tatoes the next year. If it is in grass, top dress with manure and let it lie until spring. Stubble
should receive an application of should receive an application of manure, and the
be turned under. If 'the ground is wet and you
cannot cannot afford to underdrain it, put
use, but do not risk potatoes on it.

## Special Notices.

 The Waterous Manufacturing Co., of Brantford, the most extensive and useful manufacturing setablishment: in Canada. They make a large of the last turned out when we were there was 859. Milling nachinery is a very great interest The company send the machinery for grist mill to all parts or this such a world-wide renown ha been their portable saw-mills. These mills hav been tested against machines made in England an and given such satisfaction that orders are bein continually filled from Germany, the States, South America and Mexico. Three of their engine ordered by the C. P R. was sent to Montrea thence shipped to England, re-shipped and sent to the Hudson Bay, this being the cheapest way manufacturers in Canada who can command foreign market.The Cockshutt Manufacturing Co., of Brant
ford, Ont., at the present time stand at the hea ford, Ont., at the present time stand at the hea
of the list as manufacturers of sulky plows an sulky corn cultivators. They spare no pains procure the latest improvenens, and their imple in Canada. White of turer of farm engines, has been so successful with his engines that he has gone to England to impor construct them gang pows. He engines to draw the These he
prairies.
a very extensive manufacturing company ha been formed in London, ont., witho a larpe capital,
and farm machinery is to be constructed on a more gigantic scale than has yet been done in Canada gigavid Maxwell, of Paris, Ont., has made a new third less cost than the old cond hinder at be worked with one horse less, and without was ing so much grain as has been done by some of the
old machines.

The Fruit Grower
ers' Association was held at Guelph, on the 25 th ult., W. Saunders, Esq., F. R. S. C., President, has in reased from 1,839 to 2,600 . The receipts, including the Government grant and balance from last, were $\$ 0,473$, and the balance on hand after President's address the election of (ffficers took place with the following result: President, Wm. Saunders, London ; vice-president, P. E. Buck,
Ottawa ; directors, John Croil, Aultsville; A A Wright, Renfrew; R. J, Dunlop, Kingston; ; P.
C. Demsey, Trenton; Thos. Beale, Geo. Leslie r., Toronto; Janes Goldie, Guelph; A. M. M. A. McD. Allan, Goderich; J. M. Deaton, London;
Hugh Smith, Sarnia; Charles Hickling Barrie Hugh Smith, Sarnia; Charles Hickling, Barrie;
auditors, John Carnegie, M. P. P. Peterboro, and auditors, John Carnegie, M. P. P PM Peterboil
Charles Drury, M. P. P., Crown Hill, Ont.
Michigan has a law making compulsory the de
struction of trees infected with yellows and pro hibiting sale of peaches from them. The Commissioners appointed for the work are now ordering
the cutting and burning of whole orchards in Van Buren County. Surface manuring is especially effective on sandy
oils, and a light dressing yearly is far more beneyears. But the best coatings once in three or four they are dressed with a compost of manure and clayey muck.
The experin Kan., demonstrat now being tried at Sterling, nade, but that the profits of manufacturing the wane are unusually large. The yield is reported to sugar per acre, besides about fifty gallons of excelAnother "agricultural" product for the leading dustrial Exnibition Association met recently, and decided to hold next year's exhibition from the 8th to the 20th of September. A proposition to trans
fer the Zoological Gardens to the exhibition grounds was suggested, and seemed to be favour grounds was suggested, and seemed to be favour
ably entertained, but definite action was delayed

## The Sousehold.

Correspondence on home work, duties, etc., from our lady
teaders, solicited for this department.

## Family Letters.

When John and Mary leave home for school or to go into business, the intercourse between them
and $t$ he circle they leave must be continued, if at 11, by the interchange of letters. These messenfamily affection across whatever space may be be-
tween those who have parted. And curious as it nay se em, sometimes a finer fabric is woven by
etters than by personal association. The timid, etters reticent, the self-contained, often express themselves more freely with the pen than with
the tongue, and entrust to the sealed letter exressions they would hesitate to use if speaking. Many a boy and girl feel better acquainted with their father and mother after corresponding with
them a year than if they had been for the time associated personally together. With others, absence from home sunders for the time all communifamily affection. It is a great task for some people o write, a task they cannot easily bring them selves to perform, Hands at home with the hoe broom and the churn-handle, find the pen too slender a tool to be managed deftly, and the form ing of sentences and the phrasing of ideas awk-
ward work. But even with these habit and cus. tom would make letter-writing easy.
What to write is the great question.
What to write is the great question. To answer it, one needs to put himself isto the place of the
person to whom the letter is to be sent. When ohn is away from home, what is he most desirous of hearing about? What does Mary care most to
now? Should they come home what would be the first questions they would ask with their eyes, their ears, their lips? We ask many questions
with our ears that we do not choose to phrase with our ears that we do not choose to phrase
in look cr word ; we wait to hear things said that are often of vital importance to us, but of which we would not speak for the world. If we can
thus form an idea of what John wants to hear and what Mary is most interested to know, it is then easy, enough to think what to write. And when solicitous to know about them-their surroundings, their successes, their hopes, their disappointments,
their friends, their observations and experiences. so can their parents know just how it is with them and keep exact reckoning of their latitude and longitude on the clart of life. ife know how cheering and stimulating are cheerful, sunny letters from home ; letters assuring them of constant love and remembrance, and
breathing an atmosphere of trust and confidence in the absent ones. They may know, some of them teast, how dark the world seems when their loubtful of their good intentions. The world is a very frigid and dark place outside the home circle, langer that censure will not be quick to put a finger on the error. If in such an hour the home is found a place of refuge and forgiveness, and etters from home are wan severe and censorious, urther error may be prevented. The love of God is the salvation of the world. The love of the parent is the salvationidren a way from home know
Those who have chir
how eager every word they send back is scanned, how eager every word they send back is scanned,
how the letters are read and re-read, till the mood of the writer and his intellectual and moral tone are caught; how what is not said becomes equally
significant with what is said, and the handwriting is made to tell all it can of the condition of the
writer (and it can tell a good deal), and how when all that can be gleaned is gleaned, the parent longs for one look at the child to supplement the infor child is all right. Boys and girls away from home cannot realize the tender solicitude which follows
their every movement. Perhaps it is as well they The more full and frequent are the letters tha pass between home and its absent ones the more perfectly will the gulf of separation be bridged,
and the less there will be to make up when the family circle is one again. The mother may so
surround her absent son or daughter with lier
presence with frequent letters that she shall seem
to them to be always with them, and so they feel to them to be always with them, and so they fee
her constant protecting care, sustaining and com forting them and keeping them from the path where teapity in family correspon
Regular Resirable, and a habit once formed of oxtringel a certain stated times, no difficulty is found in
keeping up the regular interchange of letters. Sun day afternoon or evening is perhaps'as good a time as one can fix upon to converse with absent family
friends. Letters of business are never written friends. Letters of business are never written on
the Sabbath by those who try to keep it holy, bu letters between children and parents are certainl allowable, and of all days in the week the Sabbat is the one that naturally brings and keeps the
family together. The absent child who writes regularly every Sunday to his parents and knows
they are writing to him at the same time will be they are writing to him at the same time, will b
reminded by that very fact of a great many thing reminded by that very fact of a great many thing
unspoken that will help keep him in the paths he has been trained to walk in, and shield him from
the unfriendliness of the great worl. the unfriendliness of the great world
The proper preservation of family letters is very
much neglected by many people. The letters a they come are tucked away in some drawer, or be hind Two pieces of pasteboard the size of commer
be. cial note, with an elastic band around them mak a very good receptacle in which letters may b
placed in the order of their dates as they are re ceiver. An old book cover answers the purpos also very well. Thus filed they occupy very little
room, and one may be sure of finding them with out search. Such a file is in the nature of a bio graphy and become of inestimable value.
$\mathfrak{F}$ amily ©ircle.
NELLY'S MISTAKE
"Oh, I I Io not want my tea" cried Nelly Manners, throwing
herself into the depths of aliarge arm-chair. "Shopping is
ser so exhausting on a hot afternoon like this."
als so are some other things, "thought "her sister Marian
calling
 and how often the initials N. . . M. . had started up under h
iron that
irver thot
ever

 Nenly with comical annoyance, as she poised a cup of tea o $o$
one hand under her nose, and contentelly inhaled the grate
ful pertume
 his evening for to-mo
What anuisance ehe is !
Here's a Iovely evening for a row '" exclaimed the voice
of the ew quick, girls, and let us go off. It will be glorioupon thene. "rier.
Now Marian was as andent a lover of the river as J Jack him

 ly, "and I felt so sure that yould be delighted to come thi
evenin.
is no rill do you good, Marian,", said her mother. "Ther
is why you should stay because Nelly does not car


 neerything
eving
anxious s.ingade o


 Jaht looked up repentantly, It gratifed him to think that
Nelly cared for his opinion, althoubh he knew full well that










 " So thisis is Nelly -litile Nelly no longer, I perooive," he

 elly thad dute forgoten her vexation in the pleasurabe
ovely of having this handsome, sprighty stranger to en
ertain Thain brunt of millinery yell on Marian's willing shoulders
nd never had Neill looked fairer than on the morning of th pienic, when her airy zum mer orwn of some washing materin
as fitly completed and enhanoed by her sister's dett hand
 were open tot the fact that she was a
way they had never been untinow.


 had revealed to Jack that for the future he would never bo
content with a sisterly regard from his favorice playmate and companion.
reflections
was




 itterly ridiculous.",
Marian sighed for Jack's sake. She saw it was a hopeleas "Write kindly, Nelly dear," she said gentiy. "I Iam afraid
it will be arate diapppointment to him. He seems to be
dire of (our affection." -"stupid fellow "" Nellie oried angrily. "I was fond ot him

 decided refusal. That young lady, however, was of opinion
that the eteter was hy no mean cruashing enouht so before she
enclosed it in its sover she added a postscript:




 orrow she knee he wan fereing, and comproen
nisery that was expresed in that sudden fight.
Edward



 Et there was irreeistible, and anc
one than any amount of tonic
Ond
Ond

## 











 suing bincouad ine una yor

## vellef





mix hationd



 Alaraiam Romend het hition
and



























 Snd farining phins

Wes , jally
Shhi stepened ito the









 and






 s.ind








BTlimie $\mathfrak{H}$ an's Department
My Dear Nieces, - My last letter described a trip down the Saguenay River, a part of the journey taken by the press excursionists this season bec, rendered doubly interesting by the historic and legendary associations investing it. Thus visitor is not only entranced by the loveliness of the scenery, but his imagination is also kindled and his sympathies are aroused by a contempla on of the scenes which have occurred there, for the memory of heroic lives sacrificed on its hal lain's time, 1600 , here has been the centre o rench life and influence in America. Till Mont alm fell gloriously, a long line of French governo uled proudy from the oway to the cross of $S$. Ceorge, which has waved ever since over a people rench in bloorl and sentiment, but who, in every hur oo need, prove their loyalty to the nilitary town most compactly and permanently
built, environed as to its most important parts by walls and gates founded upon a rock, and, in its highest parts, overlooking a great extent of coun-
try, between three and four hundred miles from the ocean ; yet, in its river, showing all the bustle winclivities it is easy for the alert to lose his way in Quebec. $\$ \mathrm{e}$ landed there Friday night. In
honỡ of the visiting journalists, a grand display of bunting and flags, with expressions of welcom
in both languages, was strewn across the streets and stores. Our festivities and sight-seeing were not to commence until the following day, but that evening I walked over Dufferin Terrace; this
promenade is about a quarter of a mile long;and thither flock in the evening the beauty and fashion of the old capital. Being at an elevation of over
two hundred feet, a beautiful panorama stretched beneath us-the river St . Lawrence, bearing on its
som hundreds of vessels of every description the Lower Town, with its lamps, lay, like a nether
frmanent, far beneath us, whilst Point Levis glit irmament, far beneath us, whilst Point Levis glit
tered and sparkled on the thither shore. At the oot of the cliff runs Champlain street, through hich Montgomery endeavored to lead an attack lose by, now marked by a wooden sign with the inscription, "Here Montgomery fell." For Satur ay our Quebec friends had arranged a grand P . versity and received a very cordial reception from he professors, who accompanied us through the brary, museum and gallection of paintings (by minent masters of the French school) in this country. The library contains upwards of nine ousan volumes, and there is a valuable collecinerals, Indian curiosities, ett. From there we went to Dufferin Terrace, where an official recepafter which we proceeded to the cta et, wee. we were receeverd most graciously and kindly by
he Marquis of Lorne and H. R. H. Princess ouise, their Excellencies shaking hands and chatng briefly with each member of the party. After taking a glance through the different apartme carriages in waiting, each of whinch contained a resi-
drunelle, of the Quebec fire department, occupied a seat in our carriage; ee was exceedingly kind in describing and pointBeauport Asylum and the Montmorency Falls. The route lay over a smooth, hard highway beween pretty country houses, walks, and from the open doors we could see the dinners frying on the great stoves set into the partition walls of each cleanly home-while Quebec appeared, to a back-
ward glance, like a wondrous painted seene, with the spires and lofty roofs of the Upper Town, and the long, irregular wall wandering on the verge of the cliff, and the thronging gables and chimneys on
St Roch, and many spires and convent walls. The Mt Roch, and many spires and convent wanls. The ful nook of the river, astonished us all with their
grandeur ; they are higher than those of Niagara, grandeur; they are higher than those of narrow.
being 250 feet high, but they are very narron On returning we visited Beauport Asylum, which ontains 900 inmates, and were afforded the priv
lege of inspecting the several departments of this ilege of inspecting the several departments of thi
well kept institution. Upon our return to the city, the very efficient fire brigade of Quebe
turned out in response to an alarm and gave a urned out in response to an alarm and gave a
good exhibition. In the evening a civic dinne was given in the hotel, at which about 235 guests participated.
The next day being Sunday, we were at liberty to do what we pleased. An invitation was ex
tended to the Ontario and Quelec journalists to attend mass in the Basilica (the French cathedral), Seats were provided sixty. Mr. Le Vasseur con ducted the musical portion of the mass, one of Gowerd's, vhich was admirably rendered. Th marching orders for Monday morning, were
"Depot of Quebec and Jake St. John Railway a So'clock, sharp," to take the train for St. Kay mond, a distance of 60 miles south from Quebec
At that hour the entire party mustered. The weather was splendid, the route selected fo the trip a very fascinating one-- the principa St. Anne, Lake St. Joseph, and st. Raymond ; a the latter place carriages were waiting to convey
the party throurh the village to give the visitors glimpse of the beautiful adjoining country.
returning from the trip on the Lake St. John Rail way, we went aboard one of the ferry-boats and were taken round the new harbor works by the Yilkington, the chief engineer. Froceedin thence across the river, a halt was made to give the visitors an opportunity of viewing the nev graving dock a leaving Quebec so after expres sing satisfaction and gratitude for the handsom manner in which we had been received and enter
tained, we bid adieu to most of our Quebec friends and embarked on the Nontreal steamer at five oclock on the homeward trip. The evening on board was spent very pleasantly. A number Rivers, and added materially to the amusements An impromptu concert was organized and carried
out, several ladies and gentlemen contributing to

Ùctober, 1883
THHE FARMERES ADVOCATHE.
 gave the party much amusement by his comical cartoonss. We landed in Montreal about 8 o'clock next morning. We proceeded immediately to the Windsor for breakfast, and being guests for the day
of the Montreal Pressmen, carriages were in waiting to convey us through the principal streets, the leading estanhishments
as we passed. We visited the Hudon cotton factory, and the Kennels of the Montreal Hunt, a
the large and very wealthy institution, where we were
courteously received and kindly shown through courteously received anes. We next visited the
their interesting premises. decorated in our honor. A sumptuous lunch was given, after which the President proposed a tuas
to Captain Brown, which was duly honored. In fact, a series of receptions and overflowing hospi talities awaited the party everywhere. We now
proceded to the steamer Berthier, where our proceeded to the steamer berthier, where our
brethren of the Montreal press, the Mayor and
. Council of that, city dined and wined us, with a prodigal bounny experience. The tables on board the steamer Berthier were so beautifully and per fectly arranged! One my dear girls. A beautiful centre piece on each table was a piece of ice about two feet square, cut quite even, and each side aimost covered wit maiden hair fern, ite the water, and the bottom literally to hold the water, and the bottom itherally
covered with ferns. covered with terns. you, mentally, though
I have now taken your in
very imperfectly, through some of the devery imperfectly, through some or you, but
tails of a trip, perhaps monotonous to youre,
most entertaining to me, as well, I am sure, to all who were fortunate encugh To all those who so kindly, and often at a sacrifice, contributed to our pleasure, the Press Association of Quebec and Montreal, and to the railway comMay, extends its warmest thanks, with the hop May, extends its warmuast thances formed may b renewed on just as auspicious an occasion.

Answers To Correspondents. | GRR |
| :---: |
| ding |
| din |
| Tin |

Thin pars ". Trin Weadiay;
 Twenty years-" Linen Wedding.
Twenty-five years "Silver Wedding
Fifty years-" Golden Wedding", Fifty years-" Golden Wedding,"
Sixty years-" Pearl Wedding," Seventy-five years-"Diamond Wedding." Stena- 1 . The use of bridesmaids at weddings
 matron, who was called the bride's woman, followed by a company of young maidens, who were
called the bride's maids. In later times it was called the bride's maids. bridesmaids to lead the
among the officers of the be brem bridegroom to church, as it was that of the grooms-
men to conduct the bride thither. Part of the men to conduct the bride thither.
duties of the bridesmaids consisted in dressing and undressing the bride, and the bridegroom's men
per peif formed the same offices to the bridegroom
2. Bridesmaids, as mere ceremonious attendants at marriages, are still in use in England, but the
bridegroom is usually attended only by one confi dential friend. Various derivations have been given of the words "brice and "bridegroom, past participle of the Anglo Saxon verb "bredan,
to nourish or cherish, and that groom is the past participle of "gyman," to take care of, guard, or and cherished, and the bridegroom is the one by whom she is attended, served and protected. the principal groomsman. He stands
alter with the bride at his left hand.
EuITH-We know nothing better for promoting Elith-
the growth of the nothr than a mixture of bitter
apple (Colocynth) and rum, take $\frac{1}{2}$ oz bitter apple, $\frac{\text { and }}{\frac{1}{2}} \mathrm{pt}$. . of Jamaica rum, put it together and let it simmer on thain it and apply to the roots of the hair two or three times a week. Another good
har preparation for the hair pour 1 tt. of boiling water
put in a pitcher and
upon it, let it remain for 48 hours, only stirring occasionally, then apply loth ETHEL going to bed at night, and wash it off in the morn ing, or lemon can be used in the same manner
 Tom-T. The green-eyed
penifation of jealousy.

O, beware, my lord, of jealousy,
It is the green eyed monster which doth make
The me The meat it feeds on.- Shaki.
Land o'cakes is a name sometimes given to Scot
land, because oatmeal cakes are a common national land, pearticularly among the poorer classes.
dish,

Old Customs.
Old customs ! Well, our children say Old customs ! Well, our chiidre
We get along without them ; But you and I , dear, in our day
Had other thouhts about the The dear old habits of the pastI can not choose but love them,
And sigh to think the world at last And sigh to think the world at last
Has soared so far above them.

We had not, in the years gone by,
The grace that art discovers; The grace that art discovers;
Our lives were calmer ; you and $I$ Our lives were calmer ; you
Were very simple lovers. And when, our daily duties o'er,
We strayed beside the rushes, The only gems you ever wore
Were bright and blooming blushes.
Our rustic way was slow, but yet And many ills we now regret Old habits would have routed.
I know our children still can see I know our children still can see May they obey, as we once did,
From love, and not from duty

The world to-day is far too hig
In wisdom to confess them, In wisdom to confess them,
But well we know, dear, you and But well we know, dear, you and 1 ,
For what we have to bless them.
The Though love was in the heart of each,
I trembled to accost you; I trembled to accost you;
Had you required a polished speech
I think I would have lost you.
No doubt our minds are slow to gauge No doubt our me are not heeding;
The ways we
But here upon our memory's page But here upon our memory's page
Is very simple readingi. Is very simple reading,
It says the forms we still hold fast
Were wise as well as pleasantWere wise as well as pleasant-
The good old customs of the past
Have leavened all the present.

## Ruskin's Way of Courting

 When a youth is fully in love with a girl, andeels that he is wise in loving her, he should at eels that ber so plainly, and take his chance bravely
once tell with other suitors. No lover should have the insolence to think of the cruelty to refuse at once
should any girl have If she simply does not without severe reasons. If she simply does not
like him she may send him away for seven years or so-he vowing to live on cresses and wear sackcloth ineanwhile, or the like penance; if she likes in time, she may let him stay near her, putting him and requiring, figuratively, as many lion skins or giants' heads as she thinks herself worth. The whole meaning of true courtship is probation, and
it ought not to be shorter than three years at least it ought not to be shind the orthodox time. And
seven is to my mind the these relations between the young people should be
openly and simply known, not to their friends only openly and simply known, not to their friends only,
but to everybody who has the least interest in them, and a girl worth anything ought always to have half a dozen or so suitors under love for heth
There are no words strong enough to express the There are no words strong enough to exprners o
general danger and degradation of the manne
nol-courthhip, as distinct from those which have geno-courtship, as distinct from those which hav times; when in a miserable confusion of candle light, moonlight and limelight-and anything bu daylight-in indecently attractive and insanely ex
pensive dresses, in snatched moments, in hidden pensive dresses, in snatched moments, inal ignor ances, young people smimirk and ogle and whisper an whimper and sneak and stumble and hutter and
fumble and blunder into what they call love- expect to get whatever they like the monger of los
fancy it, and are continually in the dan fancy it, and are continually in the danger of of
ing all the honor of life for a folly and all the joy

Kitchen Progress. Even in the kitchen inventive genius has gained strong fookice by our grandmothers in the pe formance of their domestic duties. Mechanica cormance of hiven of all kinds supply what in former
contrides years required dertuess. Gre beaten by a crank;
the cake turning. Eggs ane
the coffee bean is not only roasted and ground by the coffee bean is not only roasted and ground oy
machinery, but the drink made by a alever con-
trivance that considerately whistles when the trivance that considerately whistles when the
beverage is done! A child, now-a-days, may successfully fry Saratoga potatoes. An open work basket is set in a pan of fat, with the article to fried in it. The pan is furnished with a high
handle with a hook in the middle. The instant the thing to be cooked has assumed the delicate brown appropriated viands cooked
the basket is lifted and hung upon the hook to drip and dry. There is no marring of the symme-
try of outline of the fragile delicacies, no spattertry of outline of the fragile delicacies, no spatter-
ing of grease in the endeavor to fish them out, and ing of grease last ones to burn while waiting their turn to be taken out. Then the new broiler, which permits the article to be tightly shut in, obviating
all danger of depositing it upon the floor or in the fire, but catches every drop of juice that may ox-
ude. When the broiler is turned over, the juices are thrown back upon the meat, which thus bastes yet arrived at the solution of the problem of how to cook a chop over a quick bring success and reliof from their perplexities. Those fond of nicoly
shaped eriddle cakes, will rejoice over a griddle romed griddlee cakes, will rejoice over a griddle
shaped
made with a hinge in the middle., One side has a number of circular depressions into which the bat.
ter is dropped When the calkes are done on the under side, the griddle is simply folded over on itself, which deposits them on te, eaving the empty
opposite half of the griddle, lea
places ready for more. Then there are ironing places ready for more. Then there are ironing articles, light and serviveabbe and unbreakable,
like buckets and basins and foot-tubs, made of papier mache. In consequancee of these improve.
ments housework need no longer be dreaded by ments housework
the unskillful.

## Sunlit Roomso

No articles of furniture should be put in a
a room that will not stand sunlight, for every room
in a dwelling should have the windows soo arranged that some time during the day a flood o
sunlight will force itself into the apartment. The sunngrtance of admitting the light of the sun freely to all parts of our dwellings cannot be too highly
estimated. Indeed, perfect health is nearly as estimated. Inent on pure sunlight as it is on pure mir. Sunlight should never be excluded excep
ahen so bright as to be uncomfortable to the eyes. when so bright as to be uncomportable to the eyes
And daily walks should be taken in bright sun Ahine. A sun-bath is of more importance in pre serving a healthrul condition on-bath costs nothing and that is a misfortune, for people are de luded with the idea that those things only can be good or usenal , fresh air, sunlit homes kept fre from dampness, will secure you from many heavy hich no money can procure. It is a well-es. tablished fact that the people who live much in the hose whose occ stronger and more healc suntive them of sunligh nd certainly there is nothing strange in the result nine the same law applies with equal force ary to arrange an isolated dwelling so that very room may be filled with sunlight some time in the day, and it is possible that many town house now receive.

2 lovers sat beneath the shade,
And 1 un'2 the other
"How $14-8$ that you be9
Have smiled upon this sut U
If a a heart it papst +U
Thy voice is music melody
ay $0 y$
Then nuph, wilt marry me ?",
Why is a man sweeping a crossing like the girl
hat has just gone over it? Because one swceps \& crossing, and the other crosses a sweeping.

## Recipes.

 A Bladk Chip Has.-To renovate a black chip hat, add to one pint of cold water a tea-spoonful of spirits of ammonia ; use with a soft
brash (a) nail or tooth brush will answer the brush (a nail or tooth brush will answer the
purpose), and when well cleaned, rinse with
cold water and place in the sun to dry. D. parpose), and when well cleaned, rinse with
cold water and place in the sun to dry. Do cold water and place in the sun to dry.
not sook or scrub sufficiently to destroy the
shape. It will look like new. GINGER CAKE. - Good-keep a long time.
cup brown sugar, 1 cup Orleans molasses, 1 cu sour milk, s cup lard and butter mixed, 3 cups flour, heaped full, 2 eggs, 2 teaspoonfuls soda dissolved in warm water, 2 teaspoonfuls cin namon, 2 teaspoonfuls ginger, salt to taste.
Bake in moderate oven. Bake in 2 deep pans.
. French Pickles.- 100 cucumbers moderate
size, washed and laid in a jar, cover with water, size, washed and laid in a jar, cover with water,
turn the water off in kettle, add 1 pint of salt turn the water off in kettle, add 1 pint of salt,
boil up and skim, turn over cucuunbers, let
stand 48 hours, rinse in cold water and drain, stand 48 hours, rinse in cold water and drain,
sprinkle on mustard, peppers, horse radish; pour sprinkle on mustard, peppers, horse radish; pou
on vinegar, scalding hot. They are splendid. Citron Preserves.-Pare, core and slice, o cut in fancy shapes. For six pounds of citro use six pounds of sugar, four lemons, on
fourth pound of ginger root. Boil the slicesi a granite ware kettle, in a little clear water, fo a graniteware ketie, in at ing or hour, or until they look clear. the
half an the
drain them. Sare the water, and put the slice drain them. Save the water, and put the slices
into another dish with a little cold water into another dish with a little cold water
cover them, and let them stand over night; in the morning bruise the.ginger root, wrap it in
a thin muslin cloth, boil in three pints of clea a thin muslin cloth, boil in three pints of clea
water till the strength is boiled out of it, r Water till the strength is boiled, out of it, re-
move the root, put in the sugar, and when it
is melted place over the fire, boil and skim. is melted place over the fire, boil and skim.
Put in the citron and the juice of the lemons. Put in the citron and the juice of the lemons.
Boil them till the citron is transparent. Put into cans or jars and pour the syrup over them. Cleaning Carpets
In all our own experiments we have found nothing so sale
moistened-only very slightly-just sufficien to hold the particles together. In this case it
is not necessary to stop and clean the brool every few minutes. Sweeping the carpet after every few minutes. has been sprinkled over it not only cleans the carpet and gathers all the dirt into same time. If too much dampened, aside from injuring the carpet it makes the work harder, because the bran becomes very heavy if very
damp. The bran should be sifted evenly over damp. The bran should be sifted evenly over
the floor, and then the room swept as usual The bran scours and cleanses the whole fabric, very little dust is made while sweeping witn it and., after the work is accomplished, becaus every particle of dirt, thread, bits of paper or
lint is gathered up into the mass of bran that lint is is gathered up into the mass of bran that
is being moved over the floor, and so thoroughly incorporated with it that it will not be easily
separated. Carpets swept in this way retain
very little dust, as will be plainly demonstrated whenever they are taken up to be shaken. whenever Mey are
[Domestic Monthly.

## A Shelf Lambrequin.

- If you have a rough, uncouth shelf in your with some dark, smooth cloth; then take a strp of dark but bright double-faced Canton flannel about eight inches in depth (more or less, accord-
ing to length and width of shelf), and long enough ing to length and width of shelf), and long enough
to reach across the front of the shelf and around at either end; paste a pretty, contrasting stripe of cretonne through the centre, and stitch it on with the machine; hem the lower edge of the flannel,
and finish with as pretty a worsted fringe as you can afford ; bring the upper edge up over the edge
of the board and make fast with minute iron tacks of the board and make fast with minute iron tacks, and you will have not only a convenient receptacle
for lamps, books, or vases of flowers, but an ad dition to the furnishing of your room in the shape of a very artistic and eye pleasing shelf.

Seminarian/(who has an asthmatic dog at home) is calling on young lady. As a suspicious sound issues from an adjoining apartment, he remarks: snore?", A few moments later the young lady snore ." A ew moments later the young lady
observed that ""Papa seems to be sound asleep in the other room."


- Lady's Basque. The pattern of this garment is cut in

-Lady's overskirt. The pattern of this garment is cut ateriat, 44 inches, wide, for medium s.and


The Fashions
Red dresses are very much worn for young haies and misses, and for fall wear, a dark red shere dress, triw or felt hat also trimmed el, and a sery stylish costume for either lon With many dressess plush elvet basques are worn, which give a very ch appearance; with costumes of this kind e little French bonnets are adopted; they ave covering of velvet or plush and are rimmed with dark China asters or crimson oses, or some have merely a buckle in the ront, and tied with narrow strings under the ear. A very pretty costume seen not long go, was made of dark blue cloth; the skirt was pleated from the waist down, the pleats eing lined with the corsage being ornamented with military
braid. The mantles are most fashionable, as hown in the accompanying engraving; they shown in the accompanying engraving; they
are made close fitting in the back, and a large satin sash is

I Dinna Ken what has Come D'er
'I dinna ken what has come o'er me, The days are sae wearifu' lang; The glory is out o, the sunshine, The lilt is out $0^{\prime}$ my sand. The wark that used to go wi me
Is done wi' a sigh and a tear ; My heart, that was light as a linnet's,

The dew on the bonnie gowan, The 'loo!',' the milking kye, The making o cheese and butter
Who like them better than $I$ ? The wark o' the day was easy, For the gloaming walk before me, But since I am out wi' Robin,
I dinna ken what has cone o'er me.

I dinna keu what has come o'er me,
Said Robin, sowing the wheat;
"I used to think ${ }^{\prime}$ ' things bonnie, And living and warking was sweet ; he wark o the farm went wi me, My heart was merry and diry,
And speer after Jenny to-night."
"Oh, Robin ! oh, Robin! How could ye?" "Oh, Jenny, you're dearest and best !",
He held out his hands and she took them, Then syne she was clasped to his breas , then, but the meadow was swee And home through the gloaming they went

Now Jenny sings in her dairy,
And light is the sound of her feet ; While Robin merrily whistles,
Busily sowing the wheat.
The work in the heuse is easy,
The work in the field is light ;
For when love in the heart is true, Lillie E. Barr, in N. Y. Ledger. Do not speak of your happines
The world is satisfied with words ; few care to ive beneath the surface.-[Pascal.
We do love beauty at first sight ; and we do qualities.
We ought not to look back unless it is to derive seful lessons from past errors and for the purpos of profiting
Washington. If a great thing can be done at all, it can b one easily. But it is that kind of ease with
which a tree blossoms after long years of gather ing strength. $-[$ Ruskin

October, 1883
HHE FAREMEIR'S ADVOCATE

My Dear Nephews and Nieces.-So here's gone by! Dear, dear, how the time flies in gone by ! Dear, dear, how the tire files in
cheerful company! All of you who are competing for the prizes will have to look sharp, as the time will soon come when I must decide who the lucky ones are for 1883. I have kept an accurate account of everything sent in, number of puzzles and answers, and the best of each. I did not hear from as many of you as usual this month; how is boys and girls will go prowling around anywhere boys and gwhere to find such treasures as walnuts, hickory nuts, chestnuts, and all the rest, and for get all about their poor old Uncle Tom. Then others tell me that school has begun, and they have so many hard lessons to learn that they scarcely get time to study. Well, I am glad to know that so many of my children have returned to school. I want you all to become good an
clever men and women, so that in after years you may be fit for any position in society ; and a gir who wishes to acquire a permanent charm of con
versation, which a clever, cultivated woman may versation, which possess, should carefully a avoid
so abundantly
slang slang words and phrases. Slang phrases con stantly present inemselves out people or places
nost obvious thing to say about ninost obvious thing to say about people, or places,
or books, when it takes a little mental effort to describe them more accurately. It is not necessary to speak good English, s , Thifl most vigorous English is made up of short, simple words and natural ex pression. And, boys, you are the architects of your own orty and industry." Don't drink, smoke,
liance, honesty swear, deceive, steal or tattle. geod books, be kind to your school-mates and love your
sisters, and always ask them
to join you in all your sports. sisters, and always ask them
to join you in all your sports.
UNcLe Tom.

## PUZZLES.

Het odog rae retbet deam
yb lil,
Sa roouds hrscude rea tewsere lsilt
2.-decapitation.

Whe amplatation. to value; behead again, and I am a verb ; transpose again, and 1 am a verb ; behead, and 1 am a
prerosition ; curtail; and I am an article.
3.-charade.

My first is an article of diet ; my second is
and 4.- Subtract forty-five from forty-ive so as eave forty-five. sarail Bretr

> My first is in lad, but not in boy.
> My third is in never, but not in leather
> My fourth is in so., but not in sever
> My fifth is in cat, but not in mice.
My sixth is in Ayr, but not in Nice
> My seventh is in skate, but not in ice.
> My eighth is in eel, and also in advocate
> 6.-enigma.

> I am composed of seven letters.
> My 2,
My $6,7,4$ is a pronoun.
5
> My 4, 3,1 is a posture.
My $2,3,1$ is to strike
> My 3, 4 is a conjugation of the verb to be.
> My
My $4,7,3,4,4$ is to hearken.
5
> My whole a weed which is a great nuisance to
> farmers.


My first is a female,
My second is a female, too ;
My second is a female, too,
My whole is still a f female,
Though, perhaps, it may be you.
MagGir Elliotr.
--Drop-Letter. W-e-t-e-a-s-s-w-y-h-m-c-w-l-p-a-.$\underset{\text { HARRY A. }}{ }$

Answers to september Puzzles. 1.- "Honor and fame from no condition ris 2.-Onion.
3 .

$$
\begin{aligned}
& \text { D } \\
& \text { RACD } \\
& \text { RACER } \\
& \text { DEGMAL } \\
& \text { DEMON } \\
& \text { RAN }
\end{aligned}
$$

4.-But foolish mortals still pursue ralse happiness in place of tr Which still pursues us like the wind 5.-Them, hem, me, crib, rib. 6.-Petra, Aden
7.-Mulberry.

Names of those who have sent Correct
Answers to September Puzzles.
S. E. Miller, Thomas Doolittle, Addie V. Morse, Agnes Maud Calderwood, Maud Dennee, Jas A. Alexander, Fanny, Burton, George W. Finnamor, srank Booth, Jennie Phenix, Jas. Watson, Nellie J. Clark, Richard Kingston, Maggie Elliott, P.
Boulton, Harry A. Wodworth He Armotrong ooulton, Harry A. Woodworth, H. Armstrong,
ohn Wim. Forbees, Ella Montyomery, Gussie Hen-
derson, Tom Hartley, Frank Jarvis, Mary Taylor, the spider did, with a will.)

At least 5,000 Boys and Girls, that is, at least ne for every Post OOfifee in the Dominion, can makle
ihemselves happy this fall or vinter, in the free receipt of one or more of the very desirable things described in our Grand Premium List. They can asily gather 3, 4 or 5 subscribers, or more. Many
persons who would turn older people away, will persige a Boy or Girl by subscribing, when work-
obs for some premium. Those to young to write
ing ing for some premium. Those too young to write,
can get some one to send the names on for them. To solicit subscribers is a good exercise to develop business talent. Many parents encourage thei children in such a work. At least one boy or gir seribers to got mother or father a holiday present.
Send for Illustrated Premium List, \&c. You will find many fine things for presents described. Go

## Off the Line.

The boys stood up in the reading class,
A dozen or so- and each one and
A dozen or so-and each one said That those at the foot should never pass
Or find it easy to get up head. Harry was studious ; so were Jake, For men of business they meant to mak And it wouldn't do to be dull or slack.

There wasn't another boy on the line,
More anxious than Jimmy to keep his place But to at the head was very fine,

But Jim delighted in games of ball, Polo, tennis, or tame croquet And his mind was not on his books at all
When he took his place in the class that day
'Twas his turn to read, and he With an air attentive-a For the boys pretence ; around him or the boys around him bo
gan to cough $\substack{\text { And mudge and chackle at } \\ \text { Jim's expense. }}$
"You've skipped a line," whis pered generous Ben
Who often had helped in this
way before,

## Katie G. Moyer.

Boys Will be Boys.
An exchange says a boy will tramp two hundred and lorty miles in one day on a rabbit hunt and
be limber in the evening; when, if you ask him to cross the street and borrow Jones' two inch
augur, he will be as stiff as a meat block. To be sure he will. And he will go swimming all day and stay in the water three hours at a time, and splash
and dive, and paddle and puff, and next morning and dive, and paddle and puff, and next morning
he will feel that unmeasured insult has been of
fere he will feel that unmeasured insult has been or
fered him when he is told by his mother to wash
And hell wander around his face. And he'll wander around a dry creek
bed all the evening piling up a pebble fort, and
保 nearly die off when his big sister wants him to
nease pick an a basket of chips
pleas please pick up a basket of chips for the parlor
stove. And he'll spend the biggest part of his stove. And he li spend the brgest part or his
time in trying to corner a stray mule or bare-
backed horse for a ride, and feel that all life's charms have fled when it comes his turn to drive the cows home. And he'll turn a ten acre lot up
side down for ten inches of angle worms, and wish side down or ten inches of angle worms, and wish
for the voiceless tomb when the garden demands
attention attention. But all the same, when you want
friend who will stand by you, and sympathize with friend who will stand by you, and sympathize with
you, and be true to you in all kinds of weather, en you, and be true to you in all
list one of these same boys.
"Did I ever tell you about Pinch, the shoe
maker?" asked Fog. "No? Well, he got shut maker ?" asked Fogg. "No? Well, he got shut
into a little, dark closet in his shop-spring-lock into a hittle, dark close tidn his shop-spring-lock The boys heard of it-rushed in-pried open the
door: but, alas! poor man-"" "Was he dead ".
cried a half-dozen men. "No not dead, but he cried a half-dozen men. "No not dead, but he
was breathing his last-that is to say, he had it was breathing his last-that is to say, he had it
with him." The fellows felt like booting Fogg;
but as he is a strapping fellow but as he is a strapping fellow, they awl kept still.
He'll but as he is a strapping fellow, they awl kept stil.
He'll get a welt one of these days, Fellows don't
like to be soled that way.

Way before, " You've skipped a line !" shouted Jim; a,
Of course the school-room was in a roar. As down to the foot Jim went that day He learned a lesson that any dunce Might have known ; for we're sure to stray
If we try to be in two places at once,

Sport, when you sport, in an earnest way,
With a merry heart and a cheerful face But when at your books think not of your play, Or else yon'll certainly lose your place.
-Josephine Pollard, in Harper's Young Peopl

The Kingdom of Home Dark is the night and fitful and drearily
Rushes the wind, like the waves of the sea. Rushes the wind, like the waves of the Little care I, as here I sing cheerily,
Wife at my side and babe on my kne King, king, crown me the king, riashes the firelight upon the dear faces, Dearer and dearer as onward they go, Brightness around us with warmth in the glow, King, king, crown me the king,
Home is the kingdom and love is the king. Flashes the firelight, increasing the glory,
Beaming from bright eyes with warmth of the soul, Lifting the shadows that over us roll. King, king, crown me the king,
Home is the kingdom and love is the king.
icher than miser with perishing treasure, Happy with fortune that words cannot measure, Light hearted $I$ on the hearthstone can sing King, king, crown me the king,
Home is the kingdom

## OUR GRAND PREMIUMS．

FOR ONE NEW SUBSCRIBER Your Choice of one of the Following LITHOGRAPHS，CHROMOS，de： ＂THE OFF世R，＂
＂TFIF ACCHPTHD＂
Y HSS OR INO，

SEED AND PIANT PREMIUMS 2 plants of the dwarf Juneberry．These plants $\begin{aligned} & \text { collection of Tables，Recipes，with memorauda } \\ & \text { mater }\end{aligned}$

A useful collection of VEGETABLE Seeds． and one packet noveries $\operatorname{OWER}$ Seeds， 12 varie A choice collection of FLOWER Seds，
ties，and a packet of new German Yansy．
A packet of the Soja Bean．
vocatc for March，1883，pp．75．
One packet of the Wild Garden，our＂Girls＇＂ Special Premium，con
beautiful lower seeds．
beautiful fower seeds．
oper．plant Downings Ever－bearing Mulberry
something new．Try a few．

berry plant seerware Nos．ch
FOR TWO NEW SUBSCRIBERS Your Choice of ONE of the Following Lithographs，Chromos，de．： WINJDSOR CASTIH，

BA工MORAI CASTLE，OR
工ORINE AND IOUISE
The Pilgrim＇s Progress．
Ancient and Modern Magic．
The above series are printed in good clear type，
well bound and illustrated．Fach volume is com well bound and illustrated．Nach with $\$ 2.00$ and
plete．Send in Two NEw NAES with premium，free per mail．
The Lady＇s Manual of Fancy Work， 400 illustra－
tions，paper covers，a book which will please every
PLANT PREMUMS．
1 plant of the Hyrdrangea Grandiflora Paniculata；
beautiful flowering lawn shrub． 1 plant each of Hale＇s Japan Honey Suckle and
Virginia Creeper ；two most beautiful climbers． 1 plant Chinese Wistaria；one of the choicest
olimbers as yet introduced，growing 15 to 20 feet climbers as yet introduced，growing 15 to 20 feet
in a season，and covered with pale blue flowers in in a season，and covered with pale blue flowers in
May and June，also in autumn；or A Pocket Compass，just what every boy or man
wants ；made of brass ；strong and durable．
The Swiss Family．
Sandford and Meps．
Esop＇s Fables．
The Vicar of Wakefiel
Robinson Crusoe．
Games and Sports for Boys．
A Year at School，by＂Tom Brown．＂

## FOR THREE NEW SUBSCRIBERS YOUR CHOICE OF ONE OF THE FOLLOWING ARTICLES：

＂．＂Whit Nountain＂Potato Parer，pares pota－। The＂Household＂Special Premium，the new The＂White Mountain＂Potato Parer，pares pota－
toes and takes out the eyes much more quickly toes and takes out the eyes much more quick
than the work can be done by hand．Exact what every farmer＇s wife wants and must have．
The＂White Mountain＂Apple Parer，Corer and Slicer．This machine does its work quickly an
economically，leaving the fruit ready for drying． economically，leaving the fruit ready for drying． Lovejoy＇s Metallic Weather Houses，warranted
Lo indicate the changes of the weather，make a to indicate the changes of the weather，make a pretty mantle ornament，and combine a thermome－ what every farmer should have．
The Common Sense Knife contains pruning blade，jack－knife blade，and budding or speying
hlade．Over 2,000 dozen of these knives were sent blade．Over 2,000 dozen of these knives were sent out by the makers in＇ss．s．A A A Precial Premium，and every boy should win one or more

The＂Household＂Special Premium，the ne
American Dictionary ；contains 1,000 engravings and more pages than any othe
house should be without one．

## BOOK PREMIUMS

Dod＇s Beauties of Shakespeare．
Scott＇s Poetin Sydney Poetical Works． Sydney Smiths Essays．
Burns＇Poetical Works． Moore＇s Poetical Works．
Wise Sayings of the Great and（iool
Cowper＇s Poems．
C＇apt．Cook＇s Yoyages．
The Adventures of Don Quixote，with six illus．
rations． Iife and Adventures of Robin Hood．
Macaulay＇s Essays．
Cruden＇s Concordance．

Arabian Nights．
Things in Doors，
Things in Doors，for Young Folks， 470 illustra．
tions．
Thinge Tions．
Trations．
trations．
trations．
Gulliver＇s Travels， 95 illustrations
Guliver＇s Travels， 95 illustrations．
A journey to the Centre of the Earth，and Five
oneeks in a Ralloon，by Yerne Veeks in a Balloon，by Verne．
20,000 Leagues Under the Sea，by Verne． Tales of the Coast Guard． Ivanhoe，with 4 illustrations
Waverly，with 4 illustration
The roy，by series
The above series are well illustrated and com－ plete without abridgement．The paper is of good
quality，the binding firm and attractive，while the
illustrations are many illustrations are many and excellent．Send in
THREE NEW NAMEs．with $\$ 300$ and you will receive THREE NEW NAMES with $\$ 300$ and you will receive
your choice from above series as a premium，free
per mail． per mail．

Every New subseriber for 18st，receivell lefore
zoil Novo，will receive Nov．and Dice．Nos．Irec．

## OUR RUTMES

Agenns Wantell Everywhere 10 work on Cash

Each new name must be accompanied with One Dollar for the annual sot in any wat
The premium is for the person who secers free by mail，except otherwise mentioned．
All books，plants，seeds，\＆c．，will be sent free by mail，except otherwise your canvas at once
Send for our Illustrated Premium List，Sample Copies，and commence
Address，THE FARMER＇S ADVOCATE
360 Richmond St．，LONDON，ONT
SEND FOR OUR GRAND ILLUSTRATED PREMIUM LIST

Sommercial.

## 

September has been an extremely dry month, so Such so that very many farmers have been unable to plow for fall wheat. The result, of this is that maller than for many years.
.The frost has done its share of mischief this month. The damage in some sections is really erious. Corn, beans, clover, and some fruits have been seriousty injurat.
wheat
It is now pretty generally admitted that the that cereal will this year yield in the neighborhood of $250,000,000$ bushels less grain in the aggregate than was gathered in the preceding year. Of this shortage, the United States may be 000,000 . Eng. $100,000,000$ bushels; Fras land, $12,000,000$, and Germans of Southeastern Europe, together with Australasia, may fairy be charged with the remaining $58,000,000$ bushels re quired to make up the deficit of $250,000,000$ bushels estimated. In view of this immense short age, a great many have readily jumped to the conclusion that prices would speedily advance, and have, therefore, bought freely for adsang they deli ery. But instead of prices advancing, they have recete, what for the want of a better term, may be called surface opinion. Keeping in sight the deficiency of this year's harvest only, they overlook in the markets for the next few price fhs, namely, the very heavy accumulation of supplies in the United Kingary during the past have been upward of $20,000,000$ quarters net which, with a crop of $10,000,000$ quarters raised a home in 1882, gave in $1882-83$ of over $30,000,000$ quarters. Allowing $1,000,000$ quarters for see and tail grain in that year, it will readily be seen that if the consumptyon $5 \frac{1}{2}$ bushels
000,000 souls is capita per an num, or $24,000,000$ quarters, the perst cereal added to their reserves during the past cereal year
some $5,000,000$ quarters, or $40,000,000$ bushels of some $\quad$ In France $100,000,000$ hectolitres, or about $275,000,000$ bushels, have in former years
been considered a fair average crop, and with an average she then exporten crop was returned
ported. Last year the French crop by the government at $60,000,000$ bushels above an average, and ae the net imports for $1883-83$ have been some 40,000 , 000 bushels, the question is very naturally sug.
gested, what has become of this apparent excess of crop and imports, amounting together to 100,000 , 000 bushels? Altnough the increase of population in France is slower than in any other Europea country,
only undoubtedly considerable greater in quantity than five or ten years ago, but also per capita, and
it it not at all ikely that any such quantity as
in the it is not at all likely that any such quantity as
100,000, ooo bushels has been added to her reserves
during the past year. But, assuming that it is during
only $50,000,000$ bushels, even this quantity, with
the $40,000,000$ bushels of extra stock accumulated the the United Kingdom, would give these two
chief importing countries $90,000,000$ bushels of chief importing co engage in the battle of price at the opening of the presentries will note fail to use to restrain and depress the marketh in weapon from their hands. The crop in Ontario is a long way short of last year, and in our oprion and and the
wheat enough for home consumption, and the wheat enough for home consumption, a either
Province trade and our millers will have to
import from the States, or ship from Manitoba. import from the States, or shi from sill will get
The result of this will be that our farmers wiower the benefit of the duty over western wheat growers
Spring wheat all through Ontario has done reSpring wheat all hath the ample is extremely fine.
markaly well, and to samples and pure will do
Those who have goo sam
well to hold them for seed.

## BARLEY is rather dull and little doing. The change in the U. S. tariff has crippled the malsters, who are idle and likely to be so, as the duty as it now stands is

 about prohibitory.This crop has been very. much damaged with
the frost. The summer being so cool, kept the corn back, and being some two or three weeks later than usual, the result has been serious. The crop has not suffered to any serious extent in the
be sfeans
have suffered in like manner as the corn, and all
that were not ripe were completely spoiled, and are useless.
potatoes
are coming out of the ground much better than any one expected. There were some very fine loads
on the Londen market Saturday last, and prices are much easier.
The Pittsburgh Stockma The Pittsburgh Stockman says: "The hog
narket continues to fluctuate more or less as the season advances, but, as has frequently been intil
mated in these colunns, its course is steadily nated in these colunns, its course is steadil the next sixty days, but at the end of that time when the winter packing season opens, a further
shrinkage is likely to take place. Both dealer and producers may as well look the probabilitite in the face, and govern themselves accordingly.
The causes bearing on the hog market have often The causes bearing on the hog market have ofte
been enumerated in these columns, and in stating the probability of lower prices in November than
in in September, we are only repeating what observa-
tion has shown to be true of the average season. It is foreshadowed that a larger total of hogs will
ther sears It is for
be mar
past."
re more plentiful than was at one time supposed, and there will, we think, be plenty for home use have to be carefully selected.
eeps very quiet, and buyers and sellers are apart have been a long way in excess of any previous year, being some 180,000 bo
date last year.
Choice lots are picked up at good prices, but we
ancy there is a lot of butter lying about the counctry in hands of farmers and dealers.
will be the price for such, time will tell.
farmers masmer
Loxpon, Oxt., Oct. 6, 1883.






## 

1
hivestock markets
 cartus.
 and weak at the dectine of last week.




 sale o one
stronger
Montraal


CHEESE MARKET.
Liverpool, ist Oct. (per cable)-Cheose 56e. ©d.
Utica, N. Y. $\mathbf{O}$


 12,099 boxes. Ruling price 11 tic Little Falls, Oct. 1, 1883.
Trade in cheese has beon very active to-day, and prios




Special Notices
The Ontario Veterinary College, Prof. A. Smith,
Principal, popens at Toronto on the 24th Oct., and
as usual will attract a large attendance.
H. S. Anderson, Cayuga Lake nurseries, Union
Springs, N. Y. Price list of small fruits. The Tyler raspberry was introduced, and has added to the 1 .

 standard.
J. E. Shenill, of Danville, Ind., sends us "The
Future by the Past," being a review of one-half Future by the Past, being a review of one-half
century, containing also considerable reading and
information for farmers and others. information for farmers and others.
J. A. Simmers, Toronto, Ont., has issued a very
neat descriptive catalogue of hardy Dutch flowerneat descriptive catalogue of harry
ing bulbs, forist supplies, \&c. This house is well
known for their choice seeds, and your custo known for their choice seeds, and your custom is
desired. Dried natural flowers and grasses are a desired. Dried nate
specialty with them.
The 15th annual circular of Messrs. Robinson \&
Johnson, proprietors of the Ontario Business ColSohnson, proprietors of the Ontario Bueness
lege, at Belleville, Ont., shows the great advan-
tages of a business course at their college tages of a business course at their college, and from
the great number of students who have passed, the the great number of students who have passed, the
great extent of country from which they have been
grawn from the West Indies from Newfound. grawn-from the West Indies, from Newfound
drawn, Minesota and Manitoba, besidesour oww
land
neighbouring provinces, and the very flattering ao neighbouring provinces, and the very flatering ao-
counts sent back by these pupils, prove that this
colle ise is doing a good ouseful work, and deserves college is doing a good, taseful work, and
more than the present large patronage $i t$ receivem,

Creiman Bros, of Georgetown, Ont., shipped
18 knitting machines to England a few days since. 18 knitting machines to England a few days sinee. Tor they manufacturre a good machine.
We are in receipt of the Swine Breeders' Manual, from P. M. M. Sringer, Secretary, Springfield, guide for breeders of pigs.
guide for breders it pigs. - Manctacturersand others will have nothoce the excellent engravings of implements, \&.., which have appeared in our
columns, and we invite any who wish to have cuts colamno of their premises or machinery, to write us
mat for terms, \&c.
For seven yearss past Edwin Alden \& Bro, Ad-
vertising Agents, Cincinnati, Ohio, have issued vertising Agents, Cincinnati, Ohio, have isseen
annually their $A$ American N Nevsspaper catalogute, but anduel dupicated it. It has differed year, after
never year in that it has beer,
perience of advertisers.
Beatty's Organs for \$35.00.-Special attention is called to Mayor Beatty's Parlor Organ advertisement in another column. Any o a reacers wro are in want of a Cabinet Organ at a reduced price
should order at once from the advertisement, as the time is limited to only seven days from date of
this paper. this paper.
The 4th, annual matches of the Sherbrooke
Ploughmen's Association are to be held in Lennoxville, on 17 th October. A large prize list is offered. As Lennoxville is the centre of one of the best farming districts in the Eastern Townships, our
would be a good opportunity for some of our western plough manufacturers to show their goods. For further particulars address R. H Tylee, Sec.,
Lennoxville, Que. Large Shipment of Condensed Milk.-Truro ped by rail to G. Reading Crowe, Winnipeg, Manitoba, 700 cases of condensed milk- 33,500 cans-
two car loads. This, we believe, is the largest two car loads. This, we believe, is the largest
single shipment ever made in America, and took every can the company had in the warehouse. Experience is proving that the article produced by
the Truro Co. is far superior to Swiss condensed milk, and is fast driving it out of the markets of
the Dominion.- Truro Guarcian. We refered some time ago to this new enterprise tario and Quebec.
Growth of a Large Industry.- Such has been
Ge growth of the business of Wm . Knabe \& Co the growth of the business of th. Knabe \& Co tories have not been large enough for them. To leased a a large and convenient building just opposite their tactories. as a tobacco factory, and its size suits well for the purposes to which it will now be put. The West streets, fronting 155 feet on West street and 45 feet deep, with an engine house 40 by 45 feet t is four stories in height, with a basement. By crease its production to 70 pianos a week.-Balti nore American.
new publications.
Canadian Methodism ; Its Epochs and Character istics. By Rev. Egerton Ryerson, D. D., L. L. D. Toward the Sunrise. By Hugh Johnson, M. A.
B D., Toronto: William Briggs, Publisher, 78 and 80 King street east, Toronto, Ont. The above works are both exceedingly well got fund of good reading and information on Methodism by Dr. Ryerson, than whom no bettor autho for the subject could have been selected. He wa his style, and makes dry details ass interesting as a his style, a and mards the Sunrise," by Rev. H. H.
novel. Johnston, is a very well written book of travel.
As a proof of its quality it has now reached its As a proof of
fourth edition.

[^0]
## DAIRY NOTES.

Slow milking of cows never secures the full pro-
duct. greatly reduces her value.
The State of Maine has 49 cheese factories, with an average of 107 cows to each factory, 60 being The nicer the quality of cheese produced, the higher the price it wil as aring, and the mo A Cheese King.-Mr. D. M. McPherson, of Lan
caster, the cheese king of Eastern Ontario, contro caster, the cheese king of Eastern Ontario, controls The regular use of sols to The regular use of salt is indispensabse to to tho management of the dairy. A certain quantity of
salt should be given daily with the food, precisely salt should be given dail.
as we take it ourselves.
Mr. V. E. Fuller's
Mr. V. E. Fuller's famous Jersey cow, Mary tested for a period of seven days, in the matter of butter-making by a committee of practical men,
All the processes, from milking to the weighing of the butter, were done under their watchful eye, and the result, it is affirmed, has never been
equalled. The net amount for the week was 26 lbs. equa:led. The net amount for the ween was
9 oz . of unsalted butter, and 271 s . 9 星 oz. of salted
Increased attention needs to be given by cheese makers to the matter of curing cheese. Cheese factories should be provided with suitable curing
rooms where a uniform temperature of the rerooms, where a uniform temperature of the re-
quired degree can be maintained, together with a suitable degree of moisture and sufficient supply of fresh air. The expense required to provide a suitable curing room would be small compared to
the increased value of the cheese product thereby ecured.
Small dairymen and farmers, having only a few
ows, labor under some difficulties in the way of ows, labor under some difficulties in the way of providing suitable curing room for their cheese
Yet if they have a clear idea of what a curing room should be, they will generally be able to is needed. Good curing rooms are absolutely needed in order to enable our cheese makers to produce a really fine article of cheese.
The Dairy says cow stories are becoming so wonwith fish stories. The subject, however, is not one for ridicule, but for sound, sober fact, and, as there is always some fire where smoke is seen, it cases. If the owners of all these extraordinary cows wonld only form an association, irrespective of breed, and have undoubted tests made in a thoroughly complete manner, and record them with
such evidence as would be indisputable, the facts would be of great importance.
The curing of a skim-milk cheese, skillfully
Thucted enriches it in fat and brings it up to a very slightly inferior condition to that of a full ery slightly inferior condition to that or aty is
milk cheese. This same digestive prope
excessively developed by long curing, and exists excessively developed by long curing, and exists
more largely in the more highly flavored cheese; more largely in the more
the flavor being produced by the decomposition which increases the digestive activity. Cheese of
this kind is not used as food strictly, but as a this kind is not used as food strictly, but as a
condiment to aid digestion of other food. It is used as fruit is, at the end of a meal, nominally as as a relish, but really as a help to digestion.
The sense of smell is of the greatest importance
in the business of dairying, and it is by no means xaggerating its importance to say that an acute
lfactory sense is indispensable to success in fine dairying. The nose has, first, a duty to perform in the stable in detecting the wrong scent of the when the animals are kept clean and fed upon clean when
food.
The The Dairy says :- Small cows are sometimes
thought desirable for family use. The small, rough Shetland cow is now proposed as a subject for inn-
ortation and booming. This cow has no claims we should respect. It is a creature of untoward environments and hard fortune. It was born of
sorrow and grief, and reared in misery and starvation upon storm-swept rocks and moors where no tree can survive and where the coarse heather is
its bed and its food, and the lee side of a rock its its bed and its food, and the lee side of a rock its
shelter. It is small; vêy small; thirty inches high or thereabouts ; but where a goat can be kept
this would make a better family cow than the this would
Shetland.

The Dominion Exhibition. During the past week an important exhibition
has been in progress at St. John, N. B. For some
 annual sum in aid of one or other of the Provincial
Exhibitions, and this year the subsidy has gone to St. John. The Legislature of New Brunswick has also acted liberally in the matter, and the enter prise of the citizens has done the rest. The ex
hibits have been numerous and varied, and the daily programme of events has been arranged with a view to making the occasion as attractive as pos. sible. The attendance during the week was good,
and the show a decided success. Unfortunatel for the interchange of visits and opinions between east and west, the great exhibitions up here com off at the same time as those down by the sea,
otherwise these occasions might become the means of inducing many to take a trip from one part of
the Dominion to another the Dominion to another. Excellent permanen of the Dominion Exhibition this year, and it is hishly probable, therefore, that even without Do
minion aid the annual show will become a per minion aid the annual show
manent institution in St. John.

At the late "Royal" show at York, England, present were hundres chansands of good farme and last month there were 20,000 people at the N Y. State fair on one day and over 10,000 people
the next day in a heavy rain, and no side shows or horse trots.

On receiving this copy of the FARMER's ADVo-
CATE we trust that our readers will immediately renew their subscriptions without waiting until extra copy of the Advocate to every person wh wishes to use one in securing new names.

NEW ADVERTISEMENTS.
Tha FARMRR's ADvocats refuses hundreds of dollars offered
or advertisements zuspected of being of a swindling cearac. ter. Nevertheless we cannot undertake to relieve our rearad
from the
rehed
 extraerdinary bargains, and they can al always gind safety in
doubtful cases by paying for goods only upon their delivery

## TIIE FARMEES'

## FRUIT EVAPORATOR

 Dries beautifuly in two hours on eooking stovewhile other duties are going on. Prices in reach
of all. Address
213-b.
J.
S. SHARLOTTE,
S.

## COLORS

These Colorarare very fnaly yroum, and are atal
 Thet are the Best Palits in the Worio!
 MOST ECONOMICAL PAINT:
 MOST DURABLE PAINT! Which can be obtained by any means and at
hatever cost, and they will resist the influence
flight, heat and moisture lonser the in




instance a reasonable ground for complaint.



Stock Whotes.
Breeders will confer a favor by sending us prompt
eports of all live-stock transactions of general inreports of all live-stock transactions of general in
terest coming within their knowledge. Our columns are always open to our readers for th proper discussion of subjects bearing upon the live stock.
Mr. S. Lemon purchased, at the Guelph exhibi
tion of Mr. Peter Arkell, of Teeswater, one Ox. tion, of Mr. Peter Arkell, of Teeswater, one O
ford down ram and four ewes-imported.
ord down ram and lour ewes- ing

We understand that H. Y. Arkell, of Goderich We understand that H. Y. Arkell, of Goderich,
Ont., has sold the young bull, Grand Duke of Con-
naught and Ridgewood, to B. C. Rumsey, of Ont, has sold the young bult, Grand Duke osey,
naught and Ridgewood, to B. C. Rumsey,
Niagara Stock Farm, Buffalo, N. Y. Mr. Geo. Ballachey, of Brantford, Ont., has pu chased from Mr. Douglass, of Caledonia, Ont., the
red bull calf "Britannia's Baron," got by a son o the fourth Duke of Clarence (33597).
The Gov't has issued a proclamation prohibiting
the importation of cattle from the United States the importation of cattle from the United States aud the Northwest Territories, in accordance w
the Animal Contagious Disease Act of 1879 .
At the sale of the Duke of Westminster's ShortAt the sale of the luke at Holker, Mr. Richard
horns on the 6th ult., at
Gilison, of Delaware, Ont., late of Ilderton, Ont., Gibson, of Delaware, Ont., late of Ilderton, On,
purchased Duke of Oxford 6 oth, at a high figure.
 The the leading breeders in the United Kingdom, as well as many from foreign countries.
Messrs. Green Brothers', of Oakville, Ont., im-
ported heifer Jewel VIIII, has dropped a fine cow ported heifer Jewel VIII., has dropped a fine cow
calf, got by Mr. Duthie's Cruickshank bull Cay. hurst, who took first honors at the Formartine Show, held at Udory, Scotland, last July, as a two-year-old. Cayhurst
(35284) out of Cochineal.
The special attention of our readers is directed o the advertisement in this issue of the 7 th annual sale of stock under the auspices of the Huron Live Stock Association. The sale will be held at
Clinton, Ont, on the 24 th inst, and buyers as Clinton, Ont., on the $24 t h$ inst, and any and as
well as sellers will find this an exceilent and most convenient market, carried on honestly and honor-
ably by farmers and for farmers.
Mr. Wilken, Waterside of Forbes, Scotland, has bought 54 Aberdeen or Angus catole for Canada for
the Hon. J. H. Pope ; for the Hon. M. H. Coch rane of Hillhurst; and Messrs. Walker and Son. Mr. Wilken has also purchased for his own herd
from Mr. Strachan, Western Fowlis, the two-yearfrom Mr. Strachan, olt eifers Signet and Adelaide 6, 135 .
Cattle and sheep from the United States and Cattle and sheep from the United States and ing 14th Sept., in almost double the numbers of
the preceding week whils the quantity of dead the preceding week while the quantity of dead
meat from the same ports also showed aut increase particularly mutton, which was above the average of the past few months. The totals were-2.143
cattle, 2644 sheep, 5,883 quarters ff beef, and 625 cattle, 2, 644 sheep,
The Department of Agriculture have re-
ceived advices from Liverpool to the effect ceived a cargo of 1,000 sheep from Canada have been ordered for slaughter on account
of one sheep, said by the authorities there to of one sheep, said by the authorities A stric investigation has been made by Prof. McEachren
the chief quarantine inspector at Point Levi, and the chief quarantine inspector at Point Levi, and he greatly doubts that the disease was scab at and
as if scab had shown itself during the voyage all
it the sheep in the pen would have been affiected. It
is his opinion it was some skin eruption that had is his opinion it was some skin eruption that hat
shown itself during the voyage in consequence of bad weather. It is a well-known fact to the trade that skin eruptions are more common among sheep at sea during boisterous weather, and
wet with salt water and closely penned are apt to suffer from eczema, which may easily be mistaken
for scab. It is hardly needful to point out that it for scab. It is hardly needful to point out that it
is absolutely necessary for Canadian shippers is absolutely necessary ior Canan exped to such severeand
seeing that our stock is exposed apparantly one-sided inspection, to use the greates
care in forwarding only healthy animals. In this care in forwarding only sacrificed because one poor case was announced tainted with a scheduled disease. This ought to emphasize the absolute
necessity for the greatest care being exercised by neecssity for the greatest care
our shippers and all concerned. our shippers and anil concerned.
(Cuntinuell on paye

## PROSPECTUS.

overnment of Canada Loan or $\$ 4,000,000,4$ per cent Currency Bonds.




















Charotituteomm
 Finame Doparationtidutum?
Form of Tender for Bonds. tuntome.
 Anount tenterect fors...... Rate.....per cont






Address
Date
To the Honorable
The Ministerof Finance
Ottawa.


MARK
BUY THE GENUINE
BELL ORGAN made only in Guelph.
it has stood the test for 20 years.
WM. BELL \& CO

FALL PLANTING! TORONTO NURSERILS.

 and KNABE PIANOFORTES.
 WiLLIM KNABE EOO.


|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## TE

## EVAPORATOR!

THE TOPPIVG PORTABLE EIMPORTTOR




 H. Torping,
 175 Hororton St., London, Ont
from 4 to 100 horse-power, tationary, upright and loco-
notive, made of stecl or iron, notive, made of steel or iron,
or all dhaties; alse boiler for or all dinties; also boincr por
greenhouses. ent IIeater. Filter, Injectors,
Force Pumps, Engineer's Brass Force Pumps, Engineer's Brass
 KNITHING $\quad$ Scarfs,Chillodens Wear MACHINE. Hosiery, Caps, Gloves,
 OITHRID HISIIIESS COLIEEE

BELLEVILLE, ONT.
Within the last 15 months students have been in
attendance from 11 different Provinces Within the from 11 different Provinees
attendantate. The Collere is conducted
and
 parted to which
of the Institution-
NOTUDENTS MAY ENTE Sith ANY TME.
 Ontario Veterinary College TEMPERANCE STAEET, TORONTU.



##  SMALL FRUITS  <br> BULBS

MY AUTUMN CATALOGUE FOR 1883, OF CHOICE
HYACINTHS, TULIPS CROCUS, NARCISSUS, LILIES, SNOWDROP
 WM. RENNIE, SEEDMAN, TORONTO
ith little or no Money.


STOAK NOTES.
Continuel from paye 321.)
The President of the United States, in view of the prejudice against American pork abroad, has appointed a comm
process of packing.
Our stock breeders must have noticed with pride the excellent cuts of stock of our leading farmers
which are appearing in our pays, and we invite which are appearing in our pag s, and we invite
any who wish to have engravings made of their
stock to write us for terms, \&c.
It is found by experience that the food of
healthy oxen, of whaterer size, is nearly one-fifth healthy oxen, of whatever size, is nearly one-fifth
of their own weight of turnips daily, or about oneof their own weight of turnips dails, or
fiftieth of their weight of hay, straw, or other fiftieth of
Hugh Kelly, cattle shipher of Toronto, has
entered an action against the Mississipni Steamentered an action against the Mississippi Steam-
hoat Line for the loss of 21 head of cattle detained hoat Line for the loss oh
at sea 51 days from the negligence of the captain in not applying for assistance to his disabled vessels from passing steamers.
A very fatal cattle disease termed the bloody
urine has broken out on a farm near Newlurg, N . urine has broken out on a farm near Newlurg, N
Y , lattling the efforts of veterinary surgeons. Fourten cows have died. The doctors say these
are the only cases of the disease ever ocuring in this country, though it is commen in Europe. At the Agricultural Fairs preference should be given to wis is much more important. A fast walk ing gait should be cultivated atlier than fast trot tin!. In a journey, lasting sone days, the
walker would ultimately outstrip the trotter. A convention of representatives of all classes
interested in the animal industries of the interested in the animal in Chicayo. Nov. 15 and 16 for conference concerning contagore inocu
eases among domestic animals. Cows were in lated here for the purpose of ascertaining if pleuro pmeumonia is contagious No result to tablish that conclusion have
Mr. Wim. Shier, of Sumlerland, Ont., writes:-
I have made the following sales of Shropshire
sheep sheep and lambs this last month: Sixteen lamh.
to Wim. V Viller. Clarmont, Ont. ; one ram lanil
 lamb aall two shearling ewes to samuel Doupe,
 The Exerntive Committee of the !ritish Tmen con shom han Ansceciation met ot Cincly h dun ing the week of the Provincial Fair the conviner the
propriety of holling a comlinell sale of cottle at Toronto during the time of the fat stock show
December breeders asking how many animall they would
enter for the sale, and if thirty or more well onterel to tho on with the arrangenents for the saic, vi \%: $\leqslant 100, \leqslant 1.50,:-200$ and $\$ 300 ;$; the hivhest hidder alove these to be huyer. The terms cash, and all
cattle entered to be reconded or eligide to the B. A H. 13.

 cows with calves at foot, four two year-ondienes,
all in calf, and ten nonperigreed two and three. year old hack polled heifers, in calf to pedisceen tent wor and three-ear-oll heifers in calf, have
, ieen bonght ty the Hon. M. H. Cochrane, of Hill hurst. The remainder were consigned to Messis.
Halker \& Soms, Ontario. Three Clydesilates were
Wlat


[^1]
tee old reliable HaLladay

 U. S. Wind Engine \& Pump Co., Batavia, III.


THE FARMER'S : NVOCATE.


Improved "Wide-A wake" Separator, Weller's Independent Sulky Harrow, with or Sulky Harrow, with or
without Broad Cast, and without Broad Cast, and
Grass Seeder ; Bickford's Non-Freezing, Force, Lift Tank, and Suction Pumps, Drive Pumps.

DITCHING MACHINE
FOR UNDERDRAINING.
Will do more work than 30 men with. spades.
Guaranteed to give satistaction. Send for circu-
lar. Address ar. Address

Address
Sole Manufacturer and Patentee,
TORONTO, CANADA. Intercolonial Railway. The Great Canadian Route to and from the Ocean
For Speed, Comfort \&
Pullman Palaoe Day and sleping
Cars on all through Express
Trains.
Good Dining Rooms at Con-
venient Distances.
No Custom House Examination.


 Through freight is torwarided by of the last two
AL TRANIS, and the experionco of
years has proved the Interconial route to be the



Leave Halitax. GONG WEST:
 The Pullman cars which ieave Montreal on
Monday, Wednesday and Friday, run through t Monday, wednesday and radi, those which Teave
Halifare without chane,
Montreal on Tuesday, Thursday and Saturday Montreal on Tuesday, N. B., without change.
run through to st Jothnt,
All intormation about the reute , and aloso about freight and plication to E. DE LAHOOKE Eestern Freight and Passenner Agent, 93 Rossin
 Genoral Freight Agent, Moncton, N. B.
 $\underset{\substack{\text { Rhief } \\ \text { ber, 1882. }}}{\substack{\text { Chay }}}$

GIOBE LLGHTINING ROO COY 94 King St.,
london,
ontario A FULL STOCK ON HAND.

T. C. HEWITT, 196-1
GLYCERITE OF GIONE: $\mathrm{G}_{\text {able therapeutic agent yet discovered foniark. }}^{\text {LYCR the }}$ treatment of all DiSEASES OF THE LUNGS,
and of THE NERVOS SYSTM. Most valu,
able in Consumption, Asthma, Bronchitis,
 Strength. Aplly to or add ress, J. . A. WILSoN,
Eleetropathic Physician, 329 Dundas Street,
LONDON, ONTARIO.
$\mathrm{E}^{\text {TRRAORDINARY OFFER! Tollowing to any address for the next two }}$ L the following to any adaress yor whe herely to
monts, our object in doinu so being mery
dvertise our name, as we olose mones on every

 1 dozen Co
Ladiese
mencial
Nut
Note Pape
and






ZIMMERMAN FRUUT and VEGETABLE DRYER

RICHARDS BROS., 494 and 496 YoNGE ST. TORONTO, ONT. Highest A wards nt the Provincial Ex.
hitbitions at Hamition and London. Dries all kinds or Fruit and yegetables
beetiter
than any ather apparatus better than any other apparatus
and is especially adapted to the us



CHEAP FABMS NEAR MARKRTS The State of Miehigan has more than 4,500 milies
of railroad and 1, oco miles of lake transportation
schools


 deseriptions of the soil, crops and general re
soortes ore eouty in the state, which ma
be had freo of charge by writing to the COMMISSIONER OF IMMIGRATION 214-d DETROIT, MICH. LINSEED CAKE

Linseed Cake Meal The Best Food known for stock. For sale by the Manufacturers. Quallty any quantity sent on applica-

Wright \& Lawther Oil and Lead Manfg Co.
206-y Chicako, ill., U. S. A.
THE NEWELL PATENT UNIVERSAL GRINDER.
 A ward of Gold and
Silver Medals. Newell \& Chapin, Proprietors,
${ }_{05}$ Bonaventure St ${ }^{95}$ Bonaventure st
Montreal. These Mills save
time
grind of
grian
any
kin fast and wint very
heating. Larrer
 and silver ores, quarta, plaste
scraps, bark, 8 EcC ., 8 cc.
$210-\mathrm{L}$

FARMS FOR SALE In Western Ontario a number of choice Farrne.
Fuld escrition nist sent on application. Corres pondence invited.
personal application at my outice, plans of the

CHARLES E BRYDGES Land officc, 98 Dundas Real Estate Agent.
opposite to the City Hotel
sale Agricultural Savings \& Loan Cós
 Subscribed Capital, $\mathbf{\$ 6 0 0 , 0 0 0}$ Paid Up do. Total Assets, The Company issues debentures for two or
more yeara in suns of sion and upward, hearing
interest at highest current rates, payable hall interest ay cupons. . . Trustees are authorized bs
yearly by becutors and
taw to invest in debentures of this Company. For information apply to
206 HOES
JO. Manager. JOHN CAMPBELL,
 Manufacturer of
Cardages, BugGes, Cutters,
 merican Dairying, by
American Bird Fancier Allen's (L. F.) American Cattle.
 Buist's Family Kitchen Gardener......
Butter and Butter Making. Hazard. Book of Household Pets; paper... Boommer's Method of Making Manures. Brill's Farm Gardening and Seed Growing..
Clock's Diseases of Sheep. ........... Cook's Manual of the Apiary Dog, The- Instone............
Dog Training-s. T. Haummen Dog Training-s. T. Hammond
Elliott's Lawn and Shade Trees. Elliotts 8 Lawn and Shade Trees...
Feeding Animals, by E. W. Stewa Feding Animals, by E. W. Stewart........ 200
Fuller's Forest Tree Culturist......... 150
Flax Culture. (Seven Prize Essays by Prac. Flax Culture. (Seven Prian
tical Growers).......
Fuller's Grape Culturist. Fuller's Grape Culturist.....
Fuller's Small Fruit Culturist
Fulton's Fulton's Peach Culture........
Gardening for Young and old;
Gregory on Squashes (paper) Gregory on Squashes (paper).....
Cabbages..........
(، "، Onenon on Mion Raising... Harlan's Farming with Green Manure
Harris on the Pri.i.
Henderson's Gardening of Pieasurur



 Johnson's How Corppp Grow
Johnsons How Crops Feed
 Dairy Cows
Law's Farmer's Yeterinary Advise: ized edition, eterinary Adviser: author:
Law farior viterinary Adviser: Cana-:



 Rot's Play. an Prootit in my ciarden.
Stewart's stable Books...........
 Talks on Manures: Joseph Harris........
Thomas Firm Inmlements and Machinery Ten Acres Enough. ADimais.
Thorpsos's Food of Anims
Waring's Frarmer's Vacation. Warings Sarrmer's Vacation.
Whieler's Hons for he Peopie.
Willards's Practical Butter Book Williams' Window Gardening.........
Waring's
Wrain's Drainny for Proft and Health Warings
Wrain's. Elementss of Agriculture.
Wright's Practical Poultry Keeper. Any of the above useful books will be mailed
post-paid from the FARMER's ADvocatr office on post-paid, frow ned
receipt of price named, and for books under $\$ 1$, receipt
5.., and
ete.

FARM \& GARDEN SBFIDS
FOR OANADA. SUTTNON \& SONS roral seeo establishuent, Englan RERDSMRN To To Quen.
Her Majesty the Quen
H. R. H. Prince of Wales.
 I. R. M. Princess Louise (Narch
I.
I.
Emperor or Austria
In H. I. M. The Emperor of Germ
H. M.the $i$ in of Portugal.
H. M. the King of Denmark.

 Elegance, Durability and Workmanship, cannot
be surpased in the Dominion.


[^0]:    The premiums which we offer elsewhere to those who aid us in swelling the roll of our subscriber different articles have been selected with great care and wilages.
    The Farmer's Advocate, published at London, is one of the very best and most reliable agricul tural papers published. Every farmer and fru:t
    grower should have it.--[Review, Nia gara Fa'ls, grower
    Ont.

[^1]:    In

