## 48.



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A GROUP OF゙


THE FARMER'S ADVOCATE.

## Let Us Hear from You !

## EDITORIAL.

James Snell's Leicesters, Shorthorn's and Clydesdales.
At the World's Fair no class of live stock was At the World's Fair no class of live stock was
more creditable to Canada than the Leicesters. more creditable to Canada than the Leres of those shown were home-bred. previously reported, Mr. James Snell, of Clinton, Ont., was a most successful prize winner in this
class. Soon after his return from Chicago, one of class. Soon after his return from Chicago, one of our staff visited his farm and carefully inspected his live stock. We found him a good all-round lire stock man. Like Snell's Sons and ancesters are well and favorably known by the lovers of fine stock in Canada.
His Leicesters, one and all, are a good lot, very uniform in type, large, of good quality and well wooled. The breeding ewes are very handsome, not a poor specimen in the entire flock, but many good ones. The ewe lambs are, like the ewes, large, even, of good quality, well wooled and handsome. The ram lambs were promising. Next year we will expect theshed, heavily-wooled yearling rams. Four yearling rams now grace the pens; they are good yearling rams now grace the pens; they ares. The ram at the head of the flock is imported Sherborn Boy, a recent winner at the Royal Show of England. He is a sheep of large size, and carries a fleece of good quality. The photo-engraving on our front page shows this animal as he stood in the field among the ewes. The artist has not flattered him in any particular. Since being imported, he he won second place in Chicago ind three ewes also headed the fock which took first place.
two years and over, which took frst
The ewe to the right in the engraving is of great substance ; she won first in the three-year-old class at Chicago. The other ewe is two years old, of the same type and general excellence as the last named; she also won first in her class at Chicago, and sweepstakes for best Leicester ewe any age, These ewes were bred ben established for about forty years.

HIS SHORTHORN HERD
was established in 1861, and ever since has been bred most carefully with a determination to pro duce thick-fleshed, vigorous, short-legged cattle and well has the proprietor succeeded. The herd, like the flock, is uniform. The short, strong legs o the animals carry massive, thick-fleshed bodied which are in nearly every case. A visitor is at once impressed by the uniform thickness of heart and ruggedness of the individuals. They are a lot of "rustlers" which need no pampering.
One of the cows, Daisy 2nd, bred by the owner got by Vice-Consul, bred by S. C. Isaac, Baltimore, Ont., is very handsome; at the present time she is the plumpest in the herd. Her coat is mossy and her skin soft and pliable. She is just the sort most sought after by practical men who know a
good one when they see it. This cow has been good one when they see it
Sea Bird is a full sister to Daisy 2nd, and, like her, is a beautiful roan. She islarge, show yond evenly fleshed-not an animal on the farm possesses more vigor and robustness. She should grow into wonderfully good, useful cow
Daisy, the dam of the two last named, is a strong, useful red and white. Like her produce, she is massive and near the ground, a grand milker has been kept on the farm for generations.
Irena 13-14271- is a dark roan and is of the same type, a good cow and a remarkably heavy
milker. She is the dam of three bulls, two of milker. have been very successful in the show ring. Her daughter, Blue Bird, by Vice-Consul, is a beautiful heifer calf, in type much like Daisy 2nd.
She is promising in many respects. She is promising in many respects.
Crimson Rosebud is another onsul. This is a Heautiful dark roan heifer, with well-sprung ribs, good top and bottom lines; she is good in all points good top been a successful prize winner.
Strawberry - 14274 - is a large, dark red cow, a very successful breeder. She is the dan of the bull now being used by Mr. John McMillan, M. P., Con stance, Ont. Her daughter, Moss Rosebud, also
red, is of rare quality, short legged, thick fleshed red, is of rare quality, short legged, thick fleshed
and smooth every inch a show cow. She is the and smooth of a fine red heifer calf. Two prime young bulls adorn the stables; their dams are Daisy and
Daisy 2nd. They are a pair of lusty, vigorous
youngsters, possessing the characteristics of the
herd. One of them has won first place in the show rings three times this fall.
The animals mentioned are but specimens of the herd. There are many other good ones, but space will not allow us to particularize further. When the herd was established the show cowStrawberry, by Cobden, was purchased from the late Jo Snell, of Edmonton. She was a fays prize wiry ner, and was the ford The next cow was purchased from F. W. Stone, Guelph. She was a Provincial prize winner. Next came Agness Buckingham and Irena, bought from John R. Craig's herd-the last named was a prize winner at the leading shows of that day. Agness Buckingham is a heavy milker. All the cattle on the farm trace to these cows.

The bull at the head of the herd is New Year -17251-, now fifteen months old. He is a smooth, stylish fellow, bred by J. \& W. Watt, Sa Moberley's world-famed bull, Abbottshurn, which was also bred by Messrs. J. \& W. Watt.
the clydesdale stud
is composed of four mares and an entire colt, Hullett's Pride, foaled April 18th, 1892, by Andrew Lammie, dam Gypsy Queen. This is a large, howy, smooth, upstanding cot. London, first at Toronto in 1892, first at Loth, and sixth oderich, first His dam is a fine, thick, well-turned mare; like her son, she is a good mover. Her muscular legs are covered with plenty of fine silky hair. She was placed second at the Highland Society's show in 1890, and has since been a prize winner at Toronto, London, and other leading exhibitions.
Imported Bess is a thick, massive, short-legged resh-looking old mare, the possessor of a robus is sixteen years old, and is in foal. She has won many prizes, including Provincial diplomas. He daughter, now one year old, is of much the same type, and will doubtless prove a valuable brood mare.
Jess is another imported mare, but space forbids further description of the Clydesdales or the Berkshire pigs kept here, all of which are pairel
bred and duly recorded. bred and duly recorded.
Mr. James Snell's brother, Mr. William Snell,
ives on the adjoining farm, and breeds and imports Clydesdales and Shropshires. We hope at a future time to give a description of his live stock.
Wm. O. Telfer, Telfer P. O., O
Wm. O. Telfer, Telfer P. O., Ont., is a believe in the degeneration of wheat into chess. His proo
is, he says, that his uncle, the late Adam Telfer, about thirty years ago procured a head half wheat and half chess, while he procured a fine bunch of chess in 1891, the roots of which originated in head of wheat, and apparently came directly from the berries of the head
If large trees are to be removed, December, or earlier in northern localities, is a good month to begin operations by excavating a large hole where the tree is to stand, and digging a deep ditch the trunk, so as to ensure having plenty of roots. Tree with the solid lump of earth adhering may removed, and set in its new home with good pros-
pects that it will survive the ordeal and come out pects that it will sur
safely in the spring.

The news of the discovery of a preventative for tetanus or lock jaw will be welcome information to all our stockmen, and especiatible to this disease
for the horse is more susceptible for the horser class of live stock. Recent investi-
than gations prove that it never appears as a primary disease of itself, but is invariably the result of wounds. It has long been known that wounds impregnated with dirt are liable to lead to lockjaw, but it is only of late that the disease was fonnd he due to the presen
dirt. An Italian, Professor Tizzoni, of Bologna, dirt. An Italian, Protessor which he calls tetamus antitocin, which has in a large number of cases proved curative in man as well as in the lower
animals, some of the cures being of a very surprisanimals, some of the cures being of a very surpris
ing character. Horses or other animals are first rendered immune, and from their blood the
antidote is prepared, and the patient is treated antiote is preparec injection of the substance.
with a hypodermic
The subject is at present attracting great attention The subject is at present attracting great attention
among medical men and reterinarians on the continent. It is to be hoped that further experi-
ment will confirm the high opinion already formed
by eminent scientists of the importance of the new ment will
by eminent
treatment.

It is the duty of everyone in this period of de pression to do whatever he can, both by word and deed, to strengthen the hearts and hands of others. If your experience has been such that you are not feeling the hard times quite so much as others it would be generous for you to come out and state wherein the secret lies. It will do you no good to kourself and probably to many others, to both to yous for you to weather the storm of hard times.
Let us hear about your farm management, how you have succeeded with your crops. Is your experience in horse-breeding satisfactory? How do your pigs and poultry pay you? What have your sheep done for you? What success have you had with your orchard this year? Has the dairy herd fulfilled your expectarm have you found the most partment o
successful ?
On the other hand, if you have lost money in any department of the farm, tell us to what you attribute such losses; what remedy would you recommend to guard againstsuch losses in the future? Let us hear from you about these things. You will find both a pleasure and a profit in doing so,
for a careful review of your affairs will impress the for a carefula points of your management more firmly in your mind, and thus enable you to refirmly in your mive more profit from your own experience. This is not the only benefit you will receive, for you will also have the satisfaction of feeling that your experience will be of some use in helping your brother farmer.
It may not be wise at all times for a merchant
manufacturer to tell others the secrets of his or manufacturer to tell others the secrets of his success, but a farmer cannot lose anything by tel-
ling his neighbor how he managed his farm so as ling his neighbor how he managed his farm so as ven at a time when everything appears to be at is lowest ebb.
The Farmer's Advocate, as its name implies, is published solely in the interests of agriculturists. interest and value to all who read it, and nothing can be of more importance to them than letters from practical men who are able to demonstrate
the fact that there is still, not only hope, but also bright prospects for the great industry by which we live, if we only take unity for our motto and
stand shoulder to shoulder in defence of our com mon interests. Let us have a regular experience meeting each issue; we pay our friends for the time The Ontario Agricultural and Experimental Union.
The annual meeting of the above society will be held at the Ontario Agricultural College on the 21 st and 22 nd of December. This Association has developed wonderfully during the past year, and now carries on the largest co-operative exper mental work in the worla. As regards the magn tude of the work which has been perrormed during readers to the last issue of the Advocate, page 134. The Committee in charge have spared no pains in order to make this the most successful meeting ever held. Many prominent agricultur ists have signified their intention of being presen gentlemen will read papers or deliver addresses on gene subjects which are set opposite their names:-
throf. C. C. James, Deputy Ninister of Agriculture Prof. C. C. James, Deputy Minister of Agriculture "The Social Con. Hilborn, Leamington, Ont. munity. ${ }^{\text {Horticulture in Ontario." Prof. Thos. H. Hunt, }}$ Columbus, Ohio: "The Value of Stock Feeds.
Wm. Mulock, M. P. Aurora, Ont.: "How to Im john Harcourt. A. O. A. C., St. Annes, Ont, "Sheep." T. H. Mason, Staffordville, Ont.: "Hog Raising for Profit." R. F. Holterman, A. O. A. A. In addition to the above a very interesting report may be expected from the chairmen of the different committees on experiments who have had charge
of the work for the past year. Programmes and of the work for the past year. Programmes and
full particulars regarding rail way fares, etc., may full particulars regarding railway fares, etc., may
be obtained from the Secretary, R. F. Holterman, Brantford, Ont.

Mrs. E. M. Jones, of Brockville, Ont., referring to her own practical experience and that of that of others in dairying, says:-"It makes my heart
sick to see those of my own sex wishing they could earn some money peddling books and
corsets, working in factories, or writing trashy novels for only enough to keep body and soul to-
gether, and all the time they have right at hand gether, and all the time they have right at hand
an industry more noble, more profitable, and far an industry more noble, more profitable, and ar
more independent one that will elevate them-
selves and the whole community, and confer io lasting 1
and die.

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in Canada.


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## CONT円NTS.







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## Gambling in Food Supplies.

The greatest evil of the present day is the ease with which a number of the great monopolists con-
rol the different food supplies, in the production of trol the different food supplies, in the production of
which the agriculturists of this continent are so inwhich the agricult Ensely interested.
Farmers may s.
uce large crops of grain, or, with equal enterprise go extensively into feeding hogs or beef cattle, and ust when these are ready for market the gambler gets in his little game, and it matters not if the product is short or plentiful, by endless scheming he manages to get more than his legitimate profit. At one time men of moderate capital contrived to get a living by handling the produce of the soil, on by large numbers of men who, by bitter experience, have been forced to give way to a few arger monopolists, whose whole study is to manipulate markets so that they may turn to account the losses of others less fortunate. Hutchins runs a corner on wheat, Cudahy does the same on pork, somebody else tries his hand on corn, while the
Big Four, at Chicago, control the beef and refrigerBig Four, at Chicago, control the
tor meat business of a continent.
There is no greater evil to the trade generally fidence in our markets, while the wide fluctuation caused by speculators in their endeavors to get produce below cost haskilled out thesmaller dealers Many, on account of their heavy investments, cannot draw out if they would, but it is safe to say that none relish the hourly changes in the value of their stocks on hand. In the earlier days, when there were no "corner" runners, there were fair profits for all and far less worry.
The world is large and the consumptive demand ever increasing, but such gross ancertainty reigns where he stands.
"Phil" Armour gives his millon toward an Institute of Technology, and others subscribe largely of their ill-gotten gains to charity, and the world looks on and applauds.
Statistics may show there is a short crop of hogs, good demand, unprecedentedly low stocks, but if these generous, noble prices down till you have not a dollar left and must let go. Then, when they have it all, to keep stocks low and avoid concentration, they will send large quantities abroad and sell it to foreigners at prices away below home quotations in order to keep the supply short and the market up. They know where almost every pound of stuff is, and just how much squeezing the holder can stand. When he is cleaned out and his pockets turned inside out, then they run it up and clean out some of the producers who may have
wipe out some wipe out some of the producers they sold too cheaply.
Ordinarily gambling only hurts the gamblers and their families, but this constant gambling and the excessive fluctuation in the necessaries of life reach every citizen with a family, and are mak ing Americans more a nation of gamblers than traders. The gamblers cont and sell it at the top most h. The producer and consumer are not a connotch. The producer a
sideration to these jolly fellows, who meet together a few hours daily to play shuttlecock with our
bread and bacon, and then give a million dollars a read and bacon, and then give a.
of conscience money to charities.

Facts Concerning Apple Spot.
The main points to be remembered in connection
with this malady are that it is cansed by a minute parasitic fungus, a low form of plant life, which, by living on thation in the former and the development of the latter. It is not so generally known mat the same fungus attacks both the leaves and the fruit. A few facts to be remembered in connection with successful treatment are: 1. That it is perpetuated by spores, which take the place of seeds. 2. That these spores, formed in the autumn,
live over winter upon the old leaves, fruit and young branches. 3. That these germinate in the spring as soon as condity about the time young foliage is developing. The efficacy of the copper salt remedies have now come to be generally recognized,
and the fruit grower who does not use these and
remedies is neglecting a simple precaution in direct (rpper carbonate and dilute Bordeaux mixture half strength are now the leading fung
apple and pear scab and grape mildew.

## Ram Sales.

by d. Mccrae, guelph.
The time has come in the sheep industry of Ontario when a better system is needed for the disposal of pure-bred rams. That which obtains fa vor
with the foremost sheep breeders in Britain is the system of auction sales at convenient centres. This could very well be managed under the auspices of the Dominion Sheep Breeders' Association. The subject is one worthy the consideration of the nembers of this Association at the coming annua meeting, to be held during the Fat Stock Show in Guelph early in December.
In Britain the system of annual sales has been
long in vogue and is very popular. In fact, it is so ong in vogue and is very popular. In fact, it is so
popular that it is fast taking the place of the old style of dickering at local fairs, and now nearly all animals sent to the weekly or monthly markets are passed under the hammer. This has been an outgrowth of the system adopted at the ram sales. Shearling rams are those principally dealt in, though a few breeders offer ram lambs, but the that mature sires are most profitable. With the sales there is usually a show, and it is a good test of the judging and the awards if the public endorse by bidding the awards of the judges. This is not always the case, however, and some well known lots of old-established breeding will bring far higher prices than their appeararce in a show ring would warrant. The top of the tree is hel of the first at the show, but by the breeder who gains the highest average in the sale Every breeder knows that it is not always the highest fed and plumpest animal that he would select as the best breeder. He also knows that at our shows the prize animals are not always the ones the judges themselves would select to pay ou their own mone Such a best from all the breeders, and it would certainly be an admirable method to bring buyers and sellers together. Notonly would Canadian buyers be benefitted, but many Americans would no doubt come and seewhat was for sale, and be purchasers if they got what suited them. As to place for a be ginning, the Agricultural College would be as suitable as any, and being a Government institution should be available for such a scheme. The accom modation word be riti, auld for dispose of their surplus stock. The time is matter of importance. That most suitable for the majority of the buyers should be chosen; should not interfere with our large fall exhibitions. The breeders will be well able to name the best time. One day, or two at most, would be ample
to do the work, as, if necessary, the selling to do the work, as, if nocessiry, the selling different breeds could go on simultaneously. The
result would probably be a better class of sheep throughout Ontario.

The Farmer's Tool House.
We have often spoken of the convenience and value of a small premises of every farmer, in which on upon the premises of every farmer, in which on
rainy days, or whenever there may be a day or part of a day when there is nothing particular to go at, implements and machinery out of repair may be mended and made ready for use. Or in the event of anything happening when in oper-
ation, and at times, too, when work is hurrying, ation, and at times, too, when work is hurrying, we can always have at hand the necessary tools to make repairs immediately, and go on with the
work without much delay. We have often heard a farmer say that he had fully expected to have finished a certain field, if it had not been for that tone breaking some portion of his machinery, to repair which he had to send off two miles, when it should have been done by himself on his own premises in half an hour or so. Now, that very mplement had shown signs of weakness the preeding autumn, but having no tool house or work ng was not done and in the middle of the season, when everything is pressing, the very thing happens
when ent he was afraid several months before would happen, and $w$ hich he fully intended should be repossible to conduct a farm in all its parts as it should be without such a shop, in which so many things can be done at leisure times, especially during inclement
weather. Allow us to urge everyone who lacks his important annex to all well-regulated farms wols at once. in order that all requisite repairing Once establish such a convenience, and the wonder will soon be how it was possible to manage the
farm before without the little workshop

Please Remit Your Subscription for 1894. We ask as a special favor that all our old subscribas possible. Look at the label on your paper and you will know just when your present subscription
xpires. If the label is marked Jan., 1894 you will know that the December number, 1803, is the last scribers to consult the label bearing his name, and remit us promptly on the expiration of the present subscription. We prefer our old subscibers o remit direct to us; do not send your money
hrough a third party. If you send money by through a third party. If you send money by risk.
Bogus Butter Again-The Scheme Once More Exposed.
In the Dairy Department of our issue of Sept. 1st, we exposed another of those questionable pro-
ects by which farmers and others interested may easily be defrauded.
In reply to this we received a letter from the St., Toronto, in which we were given five days to decide whether we would apologize for what we had said in the article, if not they would immediately commence an action for libel, in which heavy this threat. We were then served with a legal notice as provided by law notifying us that we
would have to defend ourselves in an action for would have to defend ourselves in an action for damages brought by the at we are glad to find the article is bearing fruit, as the subjoined letter implies :-
Peterborough, Nov. 18th, 1893.
To the Elitor of Farmers ADocate:
Dear Sir:-At Toronto Police Court, Nov. 10th, I learned




We at present have no mearns bros how many parties these gentlemen have already entrapp d, but that there are numbers of others we give statements equally strong, and all are ready
to give evidence against the scheme, which is being worked only too successfully.
It is only a repetition of what has occurred time and again. Accompanying the letter sent us by Messrs. Kearns was a business card, by which we
learn how the device is being worked. The card learn how the as follows:

THURSTON'S
NEW BUTTER PROCESS
will make two or three times the amount of butter that can be made by any other method yet invent ed. No TO THE BUTTER PRODUCER.
It will make you one dollar per bushel for your
corn. We consume $\$ 10$ worth of butter for $\$+$ worth of flour. We respectfully invite the examination
of our new process for making butter, by which an of our new process for making butter, by which an
increase of from two to three times the amount can be made from the same quantity of milk as by the old method. The old method produces four pounds of butter per hundres a gallon. One cow gives two gallons of milk a day, in one year will
average about 550 gallons, weighing 5,500 pounds, average about 550 gallons, weighing 5,500 pounds,
and by the old method produces 220 poundsof butter. and By the new process, eight pounds per hundred
pound of milk, 440 pounds of butter produced in poue year. Again, by the use of the new process over and a bove the old method of 220 pounds at
cents per pound, brings $\$ 33$ per year, or an average
and "A small factory churning 100 gallons of milk per day, counting 306 working days in the year,
will churn $30,600 \mathrm{gallons}$, weighing 306,000 pounds,
and by the old method produces 12,400 pounds of and by
butter.
"ME the new process of cight poundsper hundred pounds of milk, in one year, a gain by the use of the new process $_{\text {over and above the old method of } 12.240 \text { pounds at }}^{\text {on }}$ Over and above the old met hod of 12.240 , pounds at
15 cents a pound, brings $\$ 1,036$ per year." We are also in receipt of their formula, which
gives the instructions for manufacturing by their gives the
process, w
upon here
upon here.
We lay no claim of having tested their plan of buttermaking, nor do we intend to become e But this we do know that good milk contains
four per cent. butterfat, and there should be eightyfive par cent., salt, and a slight showing of casein
being water
the less of the latter the hetter. Herein lies th difference between good and bad butter, as the
more casein the quicker decay is hastened. Eng more casein the quicker adulteration of butter of
land has considered the an act has recenty been
such importance that an
which this firm pretends to produce? Certainly
not pure butter, but an ingredient is incorporated not pure butter, but an ingredient is incorporate
that would be much more detrimental than water The Ontario Legislature is yearly expending large sums of money in dairy education, viz, by ciation, by establishing and maintaining a Trave
ling Dairy, in order that a better system of butte making may be taught and establishing expensive
dairy schools at Guelph. The Ottawa authoritie have established a number of creameries to teach patrons how to manufacture a better article for
export, that the name of Canadian butter may export, that the name of Canadian butter may
obtain a higher standard, when along there come obtain a higher standard, when along there comes
a concern like this, striving to upset the good work already accomplished.
This is a subject in which vital interests are a
stake, and for which special punishment should stake, and for which special punishment should
provided. In our opinion legislation is required provilar to that referred to as having been passed in England for the purpose of protecting the good is liable to be ruined by adulterations or any other means that reduces in an article sold as butter the percentage of butterfat. It should be made a crim inal offence to manufacture and expose any such bogus goods for sale.
We will gladly
those who have been entrapped by this or any other scheme. It is our aim to aid in putting
down any design that is being worked to the down any design that is being
damage of the farming community.

## STOCK.

Is Feeding Cattle Likely To Be Profitable As the season has now arrived when Canadian what number they will place in the stables for this wingeous manner of keeping them, it will be expedient, before entering fully into it, to ascertain what probability there is remunerative profit.
In order to judge
In order to judge of the resources of this and
other countries who are competitors in supplying the British markets, it is as well to look fairly at
the situation. In the first place England herself has the situation. In the first place England herself ha experienced a forops of every description have yielded very light returus, and it is a question if more than half the average weight per acre has been produc-
ed. Again, their stock of all kinds are remarkably lean and in many cases are in no condition to place in the feeding stalls, which will have the effect of making the Englishbeef muchaterin farmers are in no mood to purchase feed liberally. Stall feeding or any other manner of beef production has not paid them for several years, even when they had to have
resort to this method of utilizing the bulky part of their crops. This season it is all the other way; in many cases a quantity of hay will have to be purchased to feed the different classes of stock they of
necessity have to keep, while on the other hand necessity have to keep, while on the other hand
they have shown an unusually strong disposition to get rid of surplus cattle and sheep at any price, and therefore an unusual quantity of unfinished
cattle have been slaughtered. Scotland has fared cattle have been slaughtered. Scotiand has fared be desired. Buts still, taking everything in consideration, there will be a very small output of finished In this contingency the United States and Canada will have to supply certainly more than for several years past, and how the feedere are pre-
pared to meet the demands will depend upon the quantity fed. Chicago cattle have been selling high all the season, and although for a couple of weeks the prices were naturally reduced through a heavier run than usual, yet or all at present the and stockers.
Again, towards the end of the season most o
the cattle-producing districts of Canada and Unit ed States have suffered largely from dry weather to be for years. This will have the effect of caus
the slaughtered for home consumption, and will leave a correspondingly less number for feeding for export.
Prices for feeding stuffs are very low in Canada A large quantity of hay has been sold at $\$ 6$ and $\$$.
per ton, while all kinds of per ton, while all may bring about, but it looks just now as though
the prospects for feeding extensively were never brighter than at present. Cattle can be bought
cheaper than for years, while if they are no highe next spring, ori this account they will mak more money; but with every prospect for a sul
stantial advance toward the end of winter, it will
he strage inded if $f$ eelper be strange indeed if feeders do not realize more
their latior and food expended than they have fo many years. There is one point, however, that i
already assured, and that whatever is worth doing
in this line is more expedient than ever. Our cattle have to be
mlanghtered at the point of debarkation, and haveno time to recruit after their wageacross. If ther ar
to hring good prices they mith he landed in prim
condition. For this reason they mut be pushe to hing good prices they must he landed in prim
condition. For this reacom they mot be pushe
forward as fast as possible, that any rise in the nex

Ninth Annual New York Horse Show, at Madison Square Gardens.
This, the ne plus ultra of all horse shows, com nenced on Monday, November 13th, 1893, an grand affair it was, it is only necessary to inform them that, in this panic year, the boxesalone sold fo $\$ 29,000$. With single admittance at $\$ 1.00$ eac and seats 50c. extra, the building was crowde all through the week, especially through the after noons and evenings, with elegantly dressed ladie. and gentlemen. In the evenings nearly all ap peared in full dress, thus making a magnificent display of the beawhere else
as can be sure of the sho
tandpoint was the display standpoint, Kas the display of standard-bre ported, home-bred and half-bred, Russian Orloff trotters, Thoroughbred and Coach horses. Still, the largest class of entries was in high-stepping harness horses and in hunters, while there were great numbers of park hacks and hurde horses The Hackney world was quite astir in this show, and, as an instance of breeding, the following renowned stallions were brought out, such as Match less of Londesborough, for which Dr. Webb gave $\$ 15,000$; Cadet, who cost about $\$ 16,000$ in England last year; Rufus, a three-year-old, imported by Geo. Green last year; Ottawa, the first prize horse at late Industrial Prince Victor 2nd and The General 2nd. These all appeared in the ring together, although it wasished horses which are veterans in the show ring these two being only three-yearolds.
The show of mares in the Hackney class was who competed had no easy task, but they did manage to carry away a number of the honors, and by the voice of the spectators should have been further ahead in two or three of the classes,
As heary horses were now not as large as last year. R. Beith, M. P., from Bowmanville, Ont., took down two stallions and two mares. His mares, Winnifred and Lady Aberdeen, took third and ing to respectively, and should at least, accordthird, while his yearling colt took second in a large class: this is a very promising youngster who will be heard from again. But strange to say, the gay and bris hardly noticed by the imported Yorkpeople, shire judge. Such is life
The Hillhurst Farm, owned by Hon. M. H. Cochrane \& Son, had forward a string of six Hackneys, including the one-year stallion, Royal Dane, and five magnificent mares. The invincible imported Yorkshire mare, Princess Dagmar, by Danegelt 174, was the fortunate first prize winner in a class of sixteen, and later ship prize This stable was also fortunate enough to gain second prize on the imported five-year-old mare, Vina, by Wildfire, while Miss Baker, the mare that cause such a sensation at Toronto in the harness class, was shown in the same class with Princess Dagmar. She and Lady Lind, by Great shot, were not so successful, but the yearling filly, Cameo, ov Danegelt, took second place. On the whole, a good shares. In the Coaching stallion class, Mr. Thomas Irring, of Winchester, Ont.. gained second with
his tine horse, Prince Arthur, the Korkhire
Corer Coacher which gained fourth place in Chicago. He
is a magnificent horse, and had Mr. Irving himself led him in the ring he, would have showed himself to better advantage.
On the whole.
great many of the high-stepping harness and saddle horses came from here, and for this reason
we may be proud of what Canadians are doing in we may be proud of what is not surprising when porting and breeding in this country. Square Gar dens, on the Monday, long prices were obtained for
Canadian high-steppers. After visiting the show, we came back to Canada
firmly impressed with the idea that, if a suitable building was provided in the city of Toronto, we would be able to hold a Yery successful show on the
same lines as that at New York: while would
not expect as much st yle. a good, solid, four day horse show that would knterest all could b
held, which would advertise Canada in the bes
possible manner.
HESRY WADE.

Southdown Sheep for Market
drress delivered by Geo. Mc K Kerrow, Susse
last meeting ot the Americar South
sociation, Chicago, Ill., September hdown The Southdown has often been termed the rich man's sheep, mainly, I presume, because this breed the aristocracy of America, as well as from the
fact that his flesh is the finest grained and best flavored, which causes the above-mention
to seek after it for use upon their tables.
to seek after it for use upon their tables. grown, and it is in fitting for and selling upon the
market that the Southdown becomes pre-eminently market that the Sout
the poor man's sheep.
There are two
every good sheep feeder in a choice of a breed tor feed for the market:
First, a good and quick return for food con-
sumed. In this respect the Southdown is to none, as all competitive tests at experimen feeding stations will testify, notably the five years test at the down show an average profit of $\$$ bi.60, followed down showed an average profit of \$6.60, followed leaving far behind the other mutton bretds, none
of which came within $\$ 2.50$ per head of the profit of which came within $\$ 2.50$ per head of the profit
of the little Southdown. Second, asheep that will turn the food consumed
into the highest priced product. Every good into the highest priced product. Every good muaton of the Southdown on this point-even the claims of the southdown market recognizes the merit of the choice Southdown.
His great constitutional vigor, as shown by his
bold, bright, large eye, full chest and large heart bold, bright, large eye, full chest and large heart his wide shoulders and well-sprung rib, which ensures the broad back, wide loin, rump and hips,
with full thigh or twist-in short, a round plump with full thigh or twist-in short, a round, plump
body on short legs, with no excess of wool or yelk body on short fregs, with no profitable work of meat production, makes the Southdown the practical ideal to cut upon the block, as in this plump, finely formed carcass he finds the g) eatest percentage of the high priced cuts, consequently he can pay
more for it and yet get a greater profit in return. One great injustice done the Southdowns and
some wother dark-faced breeds in the Chicago market is that nearly all the sales of the dark faces are credited admit the Shropshire is a grand breed of sheep, yet in justice to the other good breeds this should
not be.) The old charge against the Southdown not be.) The old charge against the sut is now in its amount to protect the carcass is now produced at a loss, and I have found in my experience that the heaviest fleeced shee
I may here say that while I believe the Southdown to be one of the best sheep to feed for market, yet nearly all the breeds have their good qualities, and will find sections in this wide country
of ours where they are well adapted to soil and of ours where they are, and surrounding conditions. Yet with all the competition from other good breeds, I am ready to predict that the sonts, and in the future becomer nore popular than ever as the profitable feeder's sheep.

## Feeding Dairy Cows for Profit

There is no more common error than that which s committed by so many of our farmers who feed for their maintenance, and fail to realize that their profits cannot begin until after this point is reach-
ed. The more the cow will assimilate after that required to maintain her body the better, as this quy be used directly for the production of milk.
We therefore see that with the right kind of cows, the more we feed, up to the limit of the capacity of each animaline thely as well as absolutely, hence an expensive ration is by no means an unprofitable one. What has been here said applies with equa
force to all farm animals. It is the excess above what is required for maintenance that yields returns to the feeder. When we remember that a cow, as a rule, is supporting a ation, and thus is
greater part of her period of lactating asked to perform double work ill seem all the more reasonable. According to a German exper keep a
it takes 8.85 lbs. digestible matter to kep without a loss or gain in flesh. The same may als apply approximately to a dry cow of a cow in full fow of milk will n.
daily in her food.
Hence we may consider nearly 60 per cent. of
the food of a cow is needed to keep up her nor the food oight therefore a cow produring a ful
mal wo of milk ought to receive over 4) per cent
flow flow of milk ought to recere her maintenance.
more food than is required for hairy arly winter it
In connection with the dare spring and summer calved cows are still ghew in

mitted to suffer by the gradual falling ont of the
cows which had finished their season. There are many dairy farmers who have the bulk of their
cows calving for winter, considering that it pays
them better fo them better to have this arrangement.
Food during Late Autuman and Winter.-Before entering on a consideration of this part of the sub-
ject it may be well to notice, that although to make a winter dairy profitable it is absolutely
necessary to use considerable quantities of food containing a large amount of nutrition in a con-
centrated form, a good deal of caution is necessary
t which it is not overdone and expense incurred be overlooked that home grown food of all kinds i extent; no better market can be had at present for wheat, oats and balley than to have them ground and used in winter dairying. The financial
position of modern farming does not admit of heavy bills being paid out of the receipts, and the on his own premises, the more likely he is to hold his ground and made a profit.
Another point of importanc
winter calving cows is that to a certain extent the season is unnatural, and a full flow of milk can neither be induced nor sustained unless contin-
nously well fed with food of nourishing and forcing quality, and the health and comfort of the animals strictly attended to. More particularly in the win ter dairy, no animal will pay for the heavy expense fair in every respect, of robust constitution, a
hearty feeder, and unmistakably a good milker. Even although every arrangement may have been number to keep up the stock, a few young cows bought in occasionally are not at all objectionable, may add considerably to the character and
merits of the herd by their breeding milking qualities, general stamina, and vigor of constitution. As a rule scarcely to be
departed from, no cow should be kept in a strictly dairy herd until really old, as they are then large cinsumers, hard to keep in condition, and the loss in value when they come he year's receipts. When breeding is carried on, the outgoing cows should he parted with while still fresh and hardy off their best, heifers taking their place, the large sums
the animals then make adding to the year's income, instead of lowering it, as must unavoidably be the case when kept till they are old.

## Meadowside Ayrshires.

About four miles from Carleton Junction, on
the C. P. R., and about the same distance from the town of Almonte, is Meadowside Farm, the property of Messrs. Joseph Yuill \& Sons. The farm consists of about six hundred acres, four hundred
acres of which are in one block. Here they have, acres of which are in one block. Here they have, barns, and on the top of one there is a large wind-
mill, which does all the ensilage and feed cutting mill, wheshing, as well as the pumping of water for the stock. The past summer they have built what might almost be called a model farm house
in every respect, and in doing this have not in every respect, and in doing this have not
neglected one of the most important buildings on the farm, a good roomy woodshed, a part
of which is divided off and fitted up as a dairy, where Mrs. Ynill makes her famous gilt-edged is the breeding of Ayrshire cattle, in which this firm has been very successful, as is shown by their success at the dier reputation is such that they
the fact that the have sent stock to all parts of Canada.
The herd numbers about seventy-five head They apparently give no preference to color, as we
noticed both the light and dark shades were to be found in about equal numbers. The herd is head
ed by the bull McNeil 771 ; he is by Roger 3rd, and out of the noted cow, Viola 3ra, a cut of which ap
peared in our issue of November 1 , which took peared in oar issue of November 1, which took
first prize at Toronto, Montreal and Ottawa
this year. At present they are milking about thirty-two head, all of which are registered
Ayrshires. We might say that Messrs. Yuil
have not had a grade cow on their farm for seventeen years. Among the heavy milkers of this herd are to be found Portulaca, winner of th
Sweepstake milk test at Kingston in 1888, which though she has been milking nine months and is
eighteen years old. will yet fill a pail at a milking cighteen years old. will yet fill a pail at a milking milk in a shorter time than any other wonderfully
viz. : twenty-two days. Another wore
deep milker is Almonte Maid. This cow, though







In spite of having such a large number of cattle
at the World's Fair, they made a good show at Ottawa, and were successful in winning six prizes. In addition to Ayrshires, they keep one hushires,
sheep, one-half of which are pure-bred Shropshi
he others good grades of this breed. A herd of sheep, one-half of which are
the others good grades of th
choice Berkshires is also kept
choice Berkshires is also kept. They have a model dairy, fitted up with all the latest machinery, with the exception of a separator,
and this they expect to put in shortly. The churning is done by means of a nne-horse tread power. At present they use a jinnett, now forty-three years
old, for this purpose, but they intend breaking in
their bull to do thiswork and thus make him work their bull to do this work and thus make him work for his keep. Just here we might add that while
both political parties are quarrelling over which should have the honor of having originated the travelling dairies, it will be news to some to know
that Mr. and Mrs. Yuill composed the first travelmethod of diffusing dairy knowledge, Mr. A. A. Wright, who owned a general store in the town of Renfrew, finding that he was losing money, as so
many of the country storekeepers do, in handling butter, decided to do something to improve the
quality, and with this object in view engaged quality, and with this object in view engaged
them to go round in this neighborhood and give lessons in buttermaking, and he states that he never did anything that paid him better.
Mrs. Yuill ships her butter twice a week to Ottawa, where it commands the highest price from
private customers, who will not stop short of the private customers, who will not she shates that even in the hottest weather no ice is needed in the package, and accounts for this by the fact that the cream is never allowe
reach a temperature above fifty-nine degrees.

## Our Scottish Letter.

The month of October is always more or less an uneventful one in Scotland, and 1883 has been no exception to the rule. In the beginning of the the Dumfries Union Society was held at Dumfries There was a fairly good exhibit of horses, cattle and sheep, but a regard for strict accuracy would no permit of one saying that the show of the first named class was equal to that seen at Dumfries ten y ears, or even five years ago. Perhaps $\mathbf{o u t h e}$ mos Ethel, which ago, and seemed not unlike being quite able to do the same thing now. She was got by McNair's Good Hope, and has worn remarkably well. In spite of her ten years, she is probably looking better now than ever she did. A gentleman who is not unknown in Canada took first prize with a threeNewhie, Annan. His is Mr. W. J. B. Beathe, and was bred in Cumberland. Galloways were forward in stronger force than they have been at any show during the present season. They were really a grand display, and, as is usually the case, the famous Tarbreoch herd secured the lion's share of Bucclizes. Mr. Pilkington, of Cavens, the Duke Jardine Bart, the showed Boar stock ir Robe in anything like such numbers as Mr. Cunningham. Ayrshires were a really good show. Mr. Andrew Robert Osborne, of Wynholme, Mr. Abram Kerr and his brother, Mr. Thomas Kerr, were all successful exhibitors. In the sheep classes one or two breeders had it very much their own way. One of is best of Mr. Johnston, at Archbank, near Moffat. This flock is an old estab' ished one, and may be described generally as a blend of the, East most distinguished breeder of which in bygone days was Mr. Brydon. It is admitted that Mr. Brydon's ideas, although dictated bya regard for the
time in which he lived, were carried out by him to such an extreme as to, yeatly impair the usefulness
and thepopularity of Cheviotsbred in Dumfriesshire. To Mr. Johnston, in a large measure, belongs the credit of having recovered much of the ground farmers in that district of the Brydon type. The principal exhibitor of black-faced sheep was Mr. Jas. Moffat, Sanquar. Border Leicesters in Dum riesshire have to compete with the English breed
known as the Wensleydales. These sheep in Scotland bear a somewhat curious name-they are called
blue-headed Leicesters. They are stronger and acquired popularity in the Border Counties chiefly from the wonderful maturity to which their cross lambs can be grown. On the whole. however, the
fashion is ratherdrifting away from them, and the Border Leicesters are gradually but surely supplanting them in popularity. Dumfries is almost the
only show in Scotland at which Wensleydales are exhibited in any number, and the show of this year has heen no exception to the rule. The most suc-
cessful exhinitor of Border Leicesters was Mr . Matthew Templeton, Drummore, Kirkcudright A gentleman not unknown to Cyderdale fanciers in
Canada, Mr. $J$. P. Larurie. Shielhhill, was more
than usually successful with the Wensleydales.

Mr. Laurie was the breeder of a a grand horse
which Mr. Gardner imported into Prince Edward Island a few years ago. He has also from time time bred other horses not unknown to fame. The second, and on the whole the most striking in the North. The name of Mr. Duthie, of Collynie, is now almost as well knownas that of the Cruickshanks, and sometimes the A berdeen Short-
horn is called the Duthie cow or bull and sometimes he Cruickshank or Sittyton. Another celebrated breeder in the North is Mr. W. S. Marr, of Upper Mill, and he and Mr. Duthie held a joint sale in the beginning of this month of their bull calves. of the two lots, but Mr. Duthie's were rather better brought out. He sold twenty-one bull calves at an average price of t wenty-two bull calvesat £25 each. 14 d . each. The Earl of Roseberry was a first-rate buyer of Mr. Duthies
stock. He gave the highest price at thê sale, viz., 155 guineas for the dark roan calf Dictator. A local
buyer, Mr. Gray, Balgove, Old Meldrum, gave 48 buyer, Mr. Gray, Balgove, od Monorum, gave 48 priced one in the Upper Mill lot. The best general Shorthorn sale of the season was held at Stoney-
town on the following day. This farm is situated a few miles from Keith, on the Highland Railway. Mr. MacWilliam, the proprietor of the herd, finding that it had outgrown the accommodation at his
disposal, resolved to sell it altogether rather than adraft. He sold fifty head of all ages, the average price of the lot being £37 Os. 5d. His seventeen cows drew $£ 5315 \mathrm{~s} .1 \mathrm{ld}$. his two-year-old heifers,
$£ 533 \mathrm{~s}$. 6 d .; his yearling heifers, $£ 3610 \mathrm{~s}$. 6 d .; and his £33 3s. 6 d .; his yearling heifers, £30 10s. 6d.; and his
heifer calves, $£ 340 \mathrm{~s} .4 \mathrm{~d}$. A yearling bull was sold for $£ 395 \mathrm{si}$, and eight buil calves, made $£ 232 \mathrm{~s}$. These,
of coure, are the averave prices. All through this of course, are the average prices. All through this we delighted with his purchases. It was wholly of Aberdeen or Sittyton blood, and it is a remarkable
tribute to the Cruickshank Shorthorns that they tribute to the Cruickshank shorthorns
Our third section of events is connected with quite a farmers in the south-west hold high carnival at Kilmarnock in the third week of October. A
cheese show held there is the great event of the cheese show's year. For several years past there has been keen rivalry between the Galloway and the Ayrshire cheesemakers. Formerly the Galloway men hadit all theirown way; then he Ayrshire Canada and secured the services of a qualified instructor in cheesemaking. The results were soon seen, for Ayrshire gave Galloway a severe thrash-
ing. The Kilmarnock Dairy School was started ing. Drummond, another Canadian, being appointed its head, and there can be no doubt that he has done more than any other man to improve the
brand and raise the standard of the cheese made in Ayrshire. For several years the supremacy of the county which gave birth to the dairy breed of cattle was maintained; but the Galloway men were not to be done, and a year or two ago they formed erant instructor Mr. McFadyen, an Ayrshire man who was Mr. Drummond's assistant. This year the results have been seen in he extraordinary success rout of the Ayrshire makers. The credit belongs not toGalloway at large, but to Kirkcrudright. The
best makers have been the Messrs. Macadam best makers have been old comparatively smal
father and son, who hold dairies in the neighborhood of Castle Douglas. This family has long been distinguished in the cheesemaking world, ant the improved methods of cheesemaking introduced from Canada. We were
at considerable pains to learn from cheese dealers their opinions as to the relative merits of Canadian that the best Scottish cheese is far in advance of that best Ganadian imported into this country but the second brand of Scottish cheese cannot
compete with the best Canadian. What the cause of this may be it is not for me to say at present. I
am not sure but that the Canadian cheese suffers in transit across the ocean. One thing, however, you have every reason to be proud of is the fact that
you were able to learn the Scottish farmers how to you were able to care brand.
The hiring of Clydesdale horses for the season
of 1s:9 continues apace, and altogether up to this to them. Terms, as a whole, are keeping well up, and whoever has cause to grumble, there is no
reason for this being done on the part of Clydesdale breeders: At the Londonderry autumn sale
 f3) 14 . Fouls sold best, the fillies drawing $\mathfrak{f t}$
10,11 . each, and the colts $£ 3211 \mathrm{~s}$. The farming interests, as a whole, in this country are in a fairly
good state at present. There is as usual a good doad of grumbling, but taking all in all, while un doubtedy many better than it was a year ago
outlook is rather
B cance for complaint, but the prices that have been
paid for stores, whether of cattle or sheep, canse paid for stores, whether of cattle or sheep, cause
one to fert that the feeders of these are leaving
or

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Ideas Culled from Sheep Breeders' Annual Report, 1893.
When the fields are covered with snow, they in good health and vigor. For the first few months of winter, plenty of turnips cut or pulped, nice,
well-cured pea straw, with a feed of clover hay now and again, will be found amply sufficient, with salt and pure water at all times within reach.
Towards lambing time, a little grain should be Towards lambing time, a hitce grain shournis
added-oats fed whole are best -and the tur should be reduced or the lambs may come weaky
and some may be lost through this cause. We and some may be lost through this cause.
should watch the flock, and render any help if needed in lambing. And some of the lambs may f a young ewe is the mother; but the least one Therks with them, if not really needed, is betce by themselves, where they can be fed better; a little
bran added to their oats, will help the flow of milk greatly, and the lambs will run less ro grass as soon as possible after lambing, as nothing starts off the lambs so well, and it is important that there should
be no stunting of their growth at this, or indeed at any time. The eats and bran should be fed unti the grass is abundant."
Most of the writers.
care of lambis at and after birth.
"When early lambs are expected the pen should be made wariod, so that we may not lose an un-
fore this periond
neessary number from chilling. Especialiy is his latter danger increased in the case of some o the favorite breeds whose lambs come so frequenty
weak. (The Downs may be favorably mentioned as producing strong, vigorous lambs even under
adverse circumstances.) But we should be pre pared, as even under the best of management lambs furnish help to suche we the loss of a few such
ambs may turn a prospective profit into a decided ambs may turn a prospective profit in dead. Hold
loss. Never give up a lanth until it inport ane weak lambs in their endeavors to procure the ir natural
food for a few times. A teaspoonful or two of warm diluted whiskey will frequently reanimate an apparenty helpess we often find refusing to own
those ewes which whe should isolate ewe and lamb for their progeny, we shoud isolata every available effort to remedy Watters. In case of the twins froma less thriftyewe
wise to take one of the and by isolation and presevering care she may
adopt But do not adopt the plan of senarating as we so often find the case.
Ther may now be fed on all the good clower hat they will eat up clean. The turnip ration may h be doubled until the ewes go out to grass, when it mar be stopped.
During the w
storms: this will do a way to a comsiderable exten
with
with the frequent complaint of weak lambs.
The lambshould de induced to
possible. Clover, roots and oit
out of reach of the ewes, and from which the lambs
will soon eat freely. This grain ration should be will soon eat freely. This grain ration should be
supplied to them ail through the summer, and we supplied to them alil through the summer, and we grain than feeding it to the growing lambs. During these months, unlike other stock, sheep
uire little care, except an occasional change o equire little care, except an occasional change of
pasture, renewal of salt in the trough and of oats pasture, rembs, and care that they have access to
tor the lambs
water. It is wise also to take the precaution of water. It is wise also to take the precaution of
seeing that they have shade during the extremely seeing that th.
hot weather.
"At the age of three weeks the lambs should have their tails docked and be castrated. This i very important-important at all times, but more
especially if the lambs are to be fed through the especially in the months. There is nothing looks so
fall and wint a long-tailed lamb, and, if they are to be untidy as a long-tailed lamb, and, if they are to
fed on rape, it is an absolute necessity to have fed on rape, it is an absomute necessity to castrating. It is nothing less than carelessness to let them run un cut, and the farmer who neglect
made feel it the lambs are about a month old they should be induced to eat a little grain. A smai enclosure should be pennedening through which the sheep-hculd run in and out at will. In this pen trough should be placed having a little bran or ground oats in, and the lambs will soon learn to nibble at it, and although they will not eat very
much, they will pay their owner handsomely for what they do consum
what they is the time a shepherd should be very at pentive, as each losut on little pasture as earl as possible, and continue to feed oats and bran and a little oil-cake, if you want to make good lambs. Now, as washing time it cleans their skin from the dirt and dandruff accumulated through the long winter, although some farmers hilk it crue Take care not to clip them until the yolk or grease
is well up in the wool again, which will depend is well up in the woo. Three days after you clip
upon the temperature upon ewes the ticks will be all upon the lambs, which, if dipped, will completely destroy them if we done. There are many good preparations very lame
ping. Sometimes you will find a sheep ver ping. Sometimes you you will invariably find a wedge of dirt between the sections of the foo
the hoof so overgrown as to cause the trouble the hoof so overgrown as to cause the trouble.
Towards the end of August they should be weaned and put on nice second-crop clover. In the treatment of lambs after weaning, Jas. Bowman says: "Let them on as good succulent
pasture as possible, and also try and keep them at a good distance from the ewes, so they may not hear each other bleat, and give them a little grain once a day : oats, two parts; peas, one part, is
good mixture. They will keep growing straight aloong in this way, and about first of October should be turned into rape, with a good run on grass also,
and grain still continued. They will only take and grain still continued. They wind day, until cold weather comes on, when they will take more. We are strongly of the opinion that grain fed to lambs that are pasturing on rape and grass pavs.
In proof of this, last year one hundred and thirtyfive lambs fed in this way, from twentieth of October until December second, gained twenty-t wo hur dred of grain. And this year the best three ewes and hest three wethers under one year at Provincial
Fat Stock Show were taken out of a flock receiving this treatment on the twenty-fifth of November, and show was held oar a flock of one hundred and sixty-two, from October fourteenth to January tenth, gained four thousand and twelve pounds.
From about tenth of December they were fed From about tenth of December they were of a pound of grain per day, what turnips they would eat up clean, and hay: also pea straw to pick
through. If prices are good when rape and outside feed is done, we would advise to sell them. But if prices are low and there is a good prospect of
getting by holding them a month, if properly attended to in the way referred to above, they will pay. The
pens need to be kept dry and plenty of fresh air allowed into them. Also salt to get to at will, both
in fields and in pens. Ewe lambs intended
with other lambs in rap
Shifer husbandry. : "If the farher would give even as much attention to his sheep
as he does to the ordinary rotation of his field crops, and as carefully select his sires as he does
his seed grain, I am safe in saying he would be as he does now, with a corresponding profit, withas he does now, farm. For instance, when summer comes, instead or into the pasture fields and have his wife com-
plaining that "those sheep are eating all the grass from the cows." I would suggest that he sow the
land intended for turnips with fall ree and br the hand intended for turnips whe very best feed ever found for ewes and lambs; and after his rye is
finished, which should be before it comes out in head, or in time top put in his turnips, ah patch of
cats and tares should be ready, which may bee
grewn on the summer-fallow. if he does summer-
fallow-if not, on land set apart for the purpose
followed again by tares sown at intervals of tw weeks apart till his clover is fit for feeding t the lambs, which should be weaned by the firs field. After the clover rape should be provide for the lambs, which should be finished by the
middle of November, and the lambs be fed whit turnips or
little grain
In feeding the above-mentioned crops I hav no doubt the question will be asked, How will you do it Answer-Use a portable fence, a portion o have access to the portion of the field where the ewes are to be fed on the morrow, where they can
be fed a little grain if desirable; this is optional. Give your sheep each day what they will eat
after the rye is finished, and as the weather get hot provide a field where they can run, having ac day, say from ten o'clock in the morning till for oclock in the afternoon, when they return to thei allowance of tares, oats, etc. By this means you land is regularly manured instead of the fence cor healthier and grow more wool of a better quality and your lambs will take well to their winter feed on coming into the yard, if you keep them for fatthis system, keep twenty or thirty ewes and lambs through the summer and not interfere with you other stock, besides leaving on the land the
manure, worth at least ten cents per week per ewe manure, worth at least ten cents per week per ewe
and lamb. The food consumed will hy this plan be grown on land that otherwise woul
idle for a great portion of the summer.
how agriculture is advanced by sheep.
Richard Gibson, Delaware, tells what shee of wild and barren wastes, like Lincoln Heath which formerly was a huge rabbit warren and home for vermin-so desolate and solitary was it to guide any belated traveller--this heath land wa let for 2s. 6d. per acre, or a couple of rabbits a year.
Where the column stood at Dunstan Pillar is now one of the best noted inners innumerable have been bred and fed, an the nam
Again on the Wolds, those high table-lands run ning east and west across the county of Lincoln, are farms which formeryy reite to shillings Then take the county of Norfolk, th
ortion of which is probably thepoorest, naturally of any part of England, having been nothing but a pure white, blowaway save piled up in little nounds. Those who have cravelled between way will remember Michigan city, which nearly resembles that portion of Norfolk of which 1 am and as prosperous a classof farmersas any in Britain. and as prosperousa classor counties in the south of England to illustrate my point, but would merely acres that have not over from five to ten acres of permanent pasture immediately surrounding the dwelling, and on which only sumcient cowster. kept to supply the family with milk and butter. arm 1,000 acres successfully without cattle? The practical answer, as exhibited on the sheep farms of Britain, would off with sheep
Let us look at the means adopted, not to keep up a naturally fertile soil, but to reclaim and bring
into cultivation the waste places of the earth; and into cultivation the waste places of the earth; and a way, if we inquire, in passing, Who accomplished this work, and to whom we are indebted for this object lesson? Was it some rich landed proprie-
tor? Or perhaps a syndicate of wealthy capitalists: Or a well-endowed agricultural college? No; it was wrought out by the tenant farmer, who, having obtained leases and a liberal tena vight, was when I say on these same farms are to be found the wealthiest farmers in England, that it is on these farms the English malting barley is grown in
its greatest perfection, and that it can only be its greatest perfection, and that it can only be
grown on sheep farms successfully has been so often demonstrated that anyone conversant with the question would not try to make
can ge grown elsewhere at first adopted were large applic-
The means at then by encouraging the growth of clover and other green crops, followed by constant treading the soil becanie consolidated sufficiently, and by the
 grow grain. Though these soils are now rich
plant food, they could not be kept up without phant and, to-da
sheeplitivation.
The rotation was the ordinary four-course quarter roots, quarter harley, quarter corer quarter wheate not apply this lesson
sheep. Can we
in some portions of our Dominion:",

## FARM.

Agents Wanted
We want good, active agents to work for us in will give permanent employment and good salaries he ADyoch of our readers to take an interest in nore if possible. If you cannot canvass for us, hat person's name and address. We are anxious o double the present circulation of the ADvocate, The more assistance you give us in the way of send
ing new subscribers, the better paper you will
receive. Now is the time! Help us to make the receive. Now is the time! Help us to make the ADVocite the best agricultural paper in America.
Ve will do our utmost, but we want and must have

The Guthrie Horn Fly Trap. Insect foes have become the most formidable Among the latest, and certainly not the least desworried cattle so terribly throughout the two pas easons. It is one of the worst insect pests tha attacks, never letting up day or night, following its victims into the stables, and allowing them no peace at pasture or in the stall. Already page Herdsmen have almost given up in despair, as these vicious pests have so materially diminished the milk yields of dairy cattle, and have prevented
feeding cattle from putting on flesh, while they have affected the well-doing of herds generally. Fortunately for all concerned, inventive genius has been busy at work, and we the thas come good execution in keeping these bloodthirsty foes at bay, and lessening their numbers most effect-
ually. We have not had a chance of testing the trap in fly time, but can judge pretty closely after passing a cow through it that it will accomplish passing that is allotted to it.
the work th. Guthrie Pari
Mr. R. H.
Mr. R. H. Guthrie, Paris Station, Ont., is the put out in the nick of time it is his Horn Fly trap The accompanying cut gives but a faint idea
 shaded panel shows the pas-
sage way, armed with brushes sage way, armed with brushes
through which the animal
passes. Those who have witpasses. Those who have wit nessed a cow rush against a
straw stack, or plunge through a thicket to rid herself of
flies, can imagine the relief that animals experience by passing through this machine
The trap is intended to be
peace where the cattle may pass singly through it. It is about six feet six inches high, and andient size fo the largest animal to pass through. There are two side piece,
$t$ ween them, which prevents the escape of the flies. The left hand one is supplied with curtains, which readily enc
the cattle.
The brushes for sweeping the flies off are formed of broom corn, and the passage way is so entirely closed with this material that it is well nigh impossible for a simgrough the trap.
The folding doors, which require an atendant to work them, close reany behind the animal that has passed
the flies, which ascend into the trap proper pro-
vided for them at the top. This trap is in two the flies, which ascethe top. This trap is in two
vided for them at the
contor bottom one being left open compartments, the bottom one being let ope
while operating the machine, while the top one while operating the machine, wire herd is passed
keeps the flies safe until the entire keeps the It can then be removed and the cap-
through.
tives destroyed. It required about twenty minutes to pass through a herd of twenty animals. Mr. Guthrie has made an especial study of the
Horn Fly and its habits while perfecting his machine, and has found First. That it is very difficult to drive the flies
from one animal to another, even when they are standing side by side.
Second. That after h second. That after having rid his cattle of flies hy passing them through the trap, few come to
his cattle from his neighbor's stock pasturing in an adjoining field. Third. After his neighbor's cattle were remove from this field, his, own cattle appeared to get a
fresh stock of flies, proving that the flies do not
seek fresh victims while the old ones are available: He does not believe the fly confines hatching itseggs.
Fifth. That it follows its fictims by scent, and will attack the horse when cattle are not near a We have received a number of testimonials operated, and all testify to the good work it per-
forms. Further information may be obtained oy addressing Mr. (iuthrie, at Paris Station, who

Popular Geology No. 2.
The composition of the most common minerals in rocks may be considered as follows:-
1, Quartz: This consists of silica: that is a ubstance containing Oxygen and silicon, and Crystal, Amethyst, Rose Quartz, Smoky Quartz, nd Flint, Cornelian, Agate, Jasper, Bloodstone particles of Quartz.
2. Feldspar isone of the mostimportant minerals, being composed of Silicate of Alumina (clay), and a olies when decomposed very useful ingredients to he soil-clay on the one hand, and potush, spda or ime on the other. There potash; Albite, clay and soda; Anorthite, clay and ime; and Labradorite, clay, soda and lime. The first is most common, and occurs in many colored rock
nesia and sonsists or sina, atwin, potash, mag 4. Hornblende supplies silica, ulumina,
nesia and lime. Asbestos is a variety of this.
5. Pyroxene is much the same as Hornblend
tone, Steatite, French (Halk (used by tailors), and
Meerschaum are varieties of Talc. 7. Serpentine is another
ilica, magnesia and unter.
8. Chlorite contains silic
ron and vater.
${ }^{0}$ Cale nuch the Chalk, Marble and Limestone have ${ }_{10}{ }_{10}$. Dolomite contains carbonic acid, magnesia and lime.
11. Gypsum is composed of sulphuric acid and Sime. Selenite, a transparent variety, Fibrous and
Satin Gypsum and Alabaster are other forms of
12. Apatite supplies phosphoric acid and lime. 13. Rock Salt, and (14) Iron embrace most of the which results from their decomposition. In this ist we find nearly all the elements that enter into taining these substances are decomposed will receive future consideration. We shall now direct our
ttention to a further study of the great divisions of rocks. fluence of heat. Characters: Usually hard, and more or less
crystalline not in layers and without fossils (that crystaline, not in layers and with
Occurrence: 1. In irregular masses of all ages. 2. Beds over-flowing other desposits.
3. In the form of tortuous veins (gown as dikes, which are sometimes o
masses described as trap. mica, feldspar mingled together. Syenite is a
variety with quartz, feldsparand hornblende, often occurring as dikes.
2. Serpentine.
3. Trap, containing much feldspar and some
iron. It may present a rough form of crystalliz. iron. ation known as basalt.
4. Trachyte, also rich in feldspar ; it is more or is a variety. 8. Lava, the rock material poured out of vol canoes. Localities: Lake Superior, Highlands of Scot land, Palisades of the Hudson, Fingal's Cav (Basalt), Montreal Mountain (Trap), and all de postrance to Yellowstone Park, affords an excellent example of dikes. Here two walls 200 feet high, 50 feet thick, with space Mount Cinnabar 2000 feet slope up the side of Mount Cinnabar
Each of these walls is a very characteristic dike. The study of Igneous rocks gives us a clue
the origin of the earth, and the condition of the the origin of earth, and the condicion of the earth's interior at the present time. One of the
most favorably received theories regarding the earth's origin was originated by a scientist name La A period when the earth was a mass of incandescent vapor. 2. The earth a chaos of melted
rock. 3. A thin erust forms, and many compounds in vapor hefore this, owing to the great heat of the glowing ball of fire, now descend. This would he a
time of marvellous electrical phenomena. 4. The water now descends and is able to remain upon
the gradually cooling surface, but there would be many upheavals and fissures made in the newly ormed crust. 5. Continents bepin to emerge and hrough the agency of water. 6. Final arrangeof these stages in the history of the earth would extend over a vast period of time.
That the earth has been, and is now, in a heated
condition, can be shown by reference to the follow ing facts:

1. The presence of boiling sprrings and geysers in various parts of the world: Fceland, sew Zealand
2. Volcanoes, of which 407 are known. feet of descent

Water from deep Artesian Wells is warm. 5. Presence of Eruptive rocks far from present
volcanoes, such as in some parts of Lake Superior volcanoes, such as in some parts of Lake superior
district, Guebec, Wales, and among the Rocky
Mountains.

## Notes from England

The Royal Commission is still the chief subject of discussion in agricultural circles. At the last
session there was a good attendance of farmers, session there was a good attendance of hadmers,
whose evidence went to show that there had been but little reduction made in the rents, and that the this state of affairs there was an unanimous feeling in favor of the three "F's,"-Fixture of Tenure, Fair Rents, and Free Sale.
Even if this Commission is of no other use, it will serve a good purpose by causing farmers everywhere to meet together decide what is necessary to remedy the present depression, and by uniting they can bring pressure to bear upon the Government when petitioning for the abolition of their grievances.
To give your readers an idea of what these demands are, I have culled a few notes from speeches, meetings.
rof. Long, in speaking before a meeting of delegates representing the Federation of Tenant Farmers of the North of England, which haulate
called together for the purpose of formulating and presenting to the Royal Commission evidence bearing upon the farming industry, said fat he hoped that they wool they succeeded in carrying their point in Parliament. As for himself, he had little confidence in the Commission, for he said it was not composed of the right men, as they were friends of the landlords, and for that reason he would not be disappointed if the results were meagre. An addion inspection of farms before ke trance of the tenant. If this were done the the entrance of the tenant. dition of the farm when it was entered upon and the improvemens nine hundred per constituency, and it seemed tohim that nine hundred resolute men could carry the day in they worn the right direction.
and says: "Still I I am somewhat sceptical as to the good results which would flow from the inves tigation. It will not be so easy to restore pro-
tection as it was to destroy it. And yet, if the question could only be fairly anddispassionately considered, we should find that a moderate duty upon the imports of wheat, based upon a sliding, scale,
need not have the effect of raising the price of bread. It is impossible for our farmers, handicapped as they are, to compete with the foreigner. who The manifesto of the Lancashire Tenant Firmers Asociation want of confidence in the Coumission, because there are no tenant farmers included, makes the followings demands: We still press for the aboition of the cawom which permits abolition of every land to be left and protected from sale, and from being subdivided, that keeps it contined at all some family, when
and hazards to one and the same
and otherwise by the conduct of the owner it would
be sold and divided, and become the property of be solu ners. After enumerating the advantages
the fanterne
to be derived from such atcion, the following to be derived from such with a, land purchase
remedy is proposed. "Win
scheme similar to that in operation in Ireland, all this would be possible. This legislation is absolinternecessar greatuess; for the more we ascer-
international agricultural conditions of foreign
tain the and countries and of our colonies, the more are we conrinced the made erual to theirs. Then, and not
mult the that
till then, shall we beable to hoid our own against them.". Pringle, in the course of an address on the
Agricultural Depression, gave as his opinion that
and sentins. the prominent causes have been bad seasons,
foreigy iompetition and low prices, but that there
were others telow, the surface of which the ques. were of compensation for unexhausted improve
tion of con
ments was one of the monst innorrtant. He said that the tyricultural Holdings Bint had ane some
thing in this direction, but ung the whole its operaa tion had been disippointing in inseff att joughicious
thad hean the means of bringing different


$\left\lvert\, \begin{aligned} & \text { bring it back again into a fair state of cultivation. } \\ & \text { He was of opinion that the argicultural interests } \\ & \text { He }\end{aligned}\right.$ should be better represented in Parliament. It wagether. And there should be a cheapening of
toe transfer of land. He would abolish the law of htail, which was an obstacle to improvement, and ntail, which was an ostacie to mprovagricultural
would give more attention to the and
education of the holders of land. He felt assured edaca a more scientific cultivation of the soil would
thant a mors
result in greatly increased production. Farmers result in greatly increased production. Farmers
asked for no legisiative assistance, but they asked
hat all legislative obstacles be taken out of their that all legislative obstacles be taken out of their
way. An interesting discussion followedin which the main proposal brought out ous the investment of
should be assured of security for his capitala, and if that were secured, more capital
would be put into the cultivation of the soil, more would be put into the cultivation of the soil, more
workpeople employed, and a larger production of workpeope en.
 ed the extensin farmers in crofting districts: abolition of the laws of entail; greater freedom of cropping, and more encouragement given to agricultura, tion. Askedaid that he and his people had always
quharson said endeavored to keep on the old tenants, and he thought it was a principle which Aberdeenshire proprietorld make any sacrifice, pecuniary and
they would otherwise, in order to keep the old tenants together Tuberculine is rapidy beroming recognized as a
sure test for the presence of that dread disease tuberculosis. A further evidence of its effective ness in locating the disease was recentlys shown on the estate owned by Lord spencer. A few cases oll
tuberculosis having, occurred, he herd were all tuberculosis having occurred, the herd were and
tested with a view of disovering if the disease had
made further progress among them. The result in made further progress among them. The result in-
dicated that every animal, with one doubtrul ex dicated that every animat, with one dous To test
ception, was the subject of tuberculosis To the accuracy of this indication a yearling heife and cow were killed and the post mortem reveale
tuberculosis in each. Since then 20 other animals, being all the remaining members of the herd, have heeng killed and in every instance
discovered in some part of the bod
A very stringent Bill regulating the sale or perial Parliament, the object of which is to preven the sale of either foreign or oolonial beef as the
produce of Great $\begin{aligned} & \text { ritain. In order to accomplish }\end{aligned}$
In sroduce of Great dealer in froign beef is compelled
the above the deal by the provisions of the Bill to post up in a con
spicuous place the sign ". Dealer in foreign and spicuous place, the sitg ill not even then be la wful
colonial meat,"
ond registered in the Government office. Any perso offering orerign meat
liable to a heavy fine.

## Tariff Reform.

In your issue of the 5 th November, under the letter from Mr. Wagner, Ossowo, Man., in whic he says "that the FARMER's ADroccie has take up politics, and that "he found worate the interest of the farmers and try to remove the burdens, po and under which they are rapidly going to ruin, is an error in some minds, you may rest assured tha it is but a few, a very few, who think so. I under stand that the FARMER'SADVOC.TE professes to be
the friend of the farmers, and while endeavoring o impart information and instruction upon such
oatters as are practical to their employment it equally a part of its duty to advocate, without re ference to party politics, the removal of burdens which press heavily upon them financially, and
doing so, seriously impair their abbility to carry on their business successfully. Tariff Reform is no too live an issue to be ignored by ay y journal, an
he farmers, especially the intelligent farmers, are most unanimous
Many people are under a misapprehension of what else. The science of politics is the art of conducting the aftairs of a nation prudently and wisely, and $n$ tion to understand the principles of this science. his fanily to do so. There is i great gulf separating the politictan, hn
from the party-heeler or partisan, who, fron prejudice, ignorance or self-interest, not to men-
tion other motives, at taches himself to either party, and is ready to support any measures, be they
right or wrong for national interests. It would bic
bell usually called part isans to sate the ir feelings, and
more independent. think ing polit icians, The Patrons of Industry are doing noble work in this line
oud, while recognizing politics as the science

terests of the country should be before and para-
mount to party poilitics.
Political economy is in nount to party politics.
no sense a doubttul science. Its princonomy is in in
clear as clear and established as those or any other, and
founded on facts. When those principles are de founded on facts. When those principles are de
parted from for some nostrums of political quacks, parted rom tor sory and ignorant, evil is sure to
to catch the unve
follow the majority. A few may benefit, but the
 lays down as one of his great principles that the
subjects of every state ought to contribute towards subjects or every state oughent as nearry y as possible
the support of the governe
in proportion to their respective abilities: that is in proportion to their respective abill they respec in proportion to the revenue which they respec-
tively enoy under the protection of the state.
Now, all taxes must fall ultimately on the produce Now, the land and on labor, because those are the
of the
hasis and source of all wealth. The faimers only Memand equal rights, that is, they desire to con
dribute of their substance to the support of the tribute of their substance to the support of the national government in proportion to their
revenues under the protection of the state. If they, and other consumers, are compelled by law to sup-
port a protected and favored class, why should the government not bonus their industry, and require duties operate as bonuses to thosesindustries where importsareexcludedand competition prevented. The
agricultural industries depend on foreign markets, as the production al ways exceeds the domestic de mand, and import dutues cannot possibly benefl those whose produce is exported. The bonusing
therefore, must be done, as in the case of the irom industry, by the governmont granting a fixed per centage on all produce raised by the farmers, sey 35 per cent., as an equivalent for the duties on in
plements, twine, etc., which fall so heavily on plements, twine, etc., deviced to attract working
them. The N. P. was dein men, to increase population, to erect tall chimneys
and create home markets, in all of which it hias innominiously failed. It would, no doubt, require a considerable sum to bonus the farming industry but probably not larger than the country's contr ever. at the advantages which would follow. There are over 726,800 persons directly engaged in agri-
cultural pursuits, and taking an average of five for cultural purssuts, and taking an average of five fo government bonus of 35 per cent. to the farmers on all export grain and cattle would result in a vas acrease in employment for laboring men-prob
ably not fewer than 500,000 would be added to the number of farm hands. Settlers would be attracted o our great North-west, and in ten years
would
not be a
vacant homestead. would disappear, and the increase in avaiabie
capital would be spent on new implements, machnery, stock and more comfortable and wholesome buildings. Villages and towns would spring up,
and even the historic tall chimneys might be seen lending enchantment to the view. The farmers would no longer be taunted as ignorant hayseds,
working only with their physical and not with their working oners, but would be educated men, and able not only to read and study the primary prin-
ciples of agriculture, but a higher class literature. Grinding poverty and incessant touce great cul
tivators of ignorance. What is sauce for the manufacturing goose should be sauce for the farming
gander. A short time ago there was an effort to get Great Britain to tax her people in favor of colat our own cost, instead of asking the workingmen ind our favor to their detriment? Equal Rights for he agricultural industry ' Yes ! why not? Why
hould the poor farmers be ground down for the
 O'Brien, who both have taken a noble stand against
political corruption and for Tariff Reform, although not far enough. Buta a revenue tariff with inciden-
tal protection and looking ultimately to British free trade is a great advance upon ultra protec-
tion. The manufacturers and combines should however,be compelled to pay towards the national
revenue a percentage on ali their out turn to compensate for the protective duties. In a country
like Canada, where the overwhelming interests are in our purely native industries, such as agriculture,
fishing, lumbering and mining fishing, tumbering and mining, and where a mand
percentage of the population onlv is engaged dicecty in exotic industries,
can do justice to all classes A revenue as alarge
as now, but probably not required as large under free trade, can be more economically collected and
Inore easily obtained by duties only

 Probably as in Britain, $\$ 750$.
By all means, then, let
deal with polititics as as science, and exclude partisan-
 versed in politics: and cast ignorant prejudice
and vicions party-heelers aside, for it is only they and
who rejice in the preesnt tarty struggles for place
and power curins nothing for the contry's welare. Ail huno to Mr. Dalton McCarthy and


Irrigation in the Territories
by a farmer's datghter. Alberta has this year had her share of a truly abundant harvest. Not only has it been abundant in then, where, with invariably an ample rainfall, agriculture is a fairly safe pursuit; but what are termed the arid districts of Southern Alberta have also had a fair show of prosperity. With this abundance the question of artificially supplying moisture to the ground, by means of irrigation,
seems not to press itseif for settlement with so seems not to press itseif for settlement with
much urgency. But this is not really the case. much urgency. But this is not really the case.
The returns this year from districts with moderate rainfall, where losses by drought come
almost as regularly as the seasons, and where almost as regularly as the seasons, and where
nothing is so certain about the fate of the crops a nothing is so certain about the fate of the crops as
uncertainty, but emphasizes the fact that it is only uncertainty, but emphasizes the fact that it is only
water regularly, judiciously and amply applied that is needed to make what is erroneously supposed to be the barren parts of Southern Alberta and Western Assiniboia bring forth and yield their harvests with an abundance and regularity second fit for what they now are, a great, free cattle range, as the usual rainfall is insufficient to supwith as favorable except in a few locast fairly good with as may be expected. What is wanted in these districtsis irrigation, and the people of Calgary and Southerh Alberta are now thoroughly roused to the fact that with the adoption of this system the success of their future is beyond computation. these districts in the last year or two, and these have served to demonstrate to the many the future success of the undertaking. A few companies have they cannot anything like grapple with the need
of the country. What is needed is legislation, of the country. What is needed is legislation,
and that at once, on a subject fraught with such and that at once, on a subject fraught with such
importance. In a new and sparsely settled country, such as Alberta is, the necessary works
cannot be established without aid from the Govcannot be established without aid from the Gov-
ernment, and it remains for the people of Alberta and Assinibiaia to put for ward their claims respectfully, but firmly, to the Dominion Parliament for a reasonable appropriaton
suitable works. The necessary water is here in abundance frominnumerable and never-fagenuity to putit to practical use. "Will it pay?" is the first question irrigation everknown notto pay? The fact that what were twenty years ago the barren sand-plains and sage-bush deserts of the Arid South are to-day
smiling under fertile orchards and green meadows should answer that question. Take the now famous orange districts of South
ern California as an example. The best type is perhaps found homes, its gardens, orchards and boulevards, sur passed nowhere in the world. Twenty years ago it was a poor sheep pasture, dear at one dolar
twenty-five an acre. To-day the land is worth three thousand dollars an acre when the orchards are in full bearing, and this is only one instance in
the many. Alberta has all the elements to make the many. Alberta has all the elements to make
it a grand country. It it the land of sunshine, of dry, pure air, of long, fruitful summers, of short,
genial winters. Whatever may be done in Eastern Canada could be exceught to bear on the rich influence of water natural home of the stockman dairyman and farmer. With irrigation these and
kindred industries would receive such an impetus that Alberta, before long, would be recognized as one of the prolific spots of the earth.
ferent to farming as it is generally understood. First of all, the crops are insured against any pos whenever it is needed, and in as large quantities as
reauired, the crops must be of the best quality required, the crops must he of the best quaing
and largest quantity per acre. Third, having la producing crops without danger of aidure, siying that it must rise to very high value. The day is the irrigated lands in the southern ant
Western States, and land which to-day, in Alberta, Gation, is bound to be among the most valuable in the Dominion. Again, irrigation always mean
a dense population. The irrigated land is pre eminently the land of the small farmer, and it is on
these that the countrys condition of prosperity $i$
it largelv dependent. Then, within the nexd that
years hundreds of thousands of a cres of land, that
is now leased property for the cattle ranges of the is now leased property for the catte ranges of, he
country, is to he thrown open for settlement, he sides the thonsands.nment to make some provision
behooves the Goverme
for the needs of the connt ry before bringing poopl here to ocrupy it. Bringing water to a
means hringing wealth to the comtry, adding
min means
the prosperity of the comery, ensuring the riol
of crops and rendering the set lows independent a
ing when it has been found actually necessary in
order to promote the prosperity of the country order to promote the prosperity of the countr
and add to the general commerce and wealth of it to call tor such aid. Then why should the line be
drawn at irrigation, so depiy necessary to the pronperity of Southern Alberta and western to the
Assiniboza? The people kncw their needs and let them see to it that this question is placed before
Parliament in a proper and forcible way. Let them press the question so respectully, way firnety,
that the Dominnon Government camnot close their

Business Farming Versus "Farming.
By the first I mean farming carried on on the In this the merchant gives a certaiu amount for thing that he may get more for it. It is this mor
that is everlastingly in his eye and moves him in ed by custom or notiou "Farming" the work is direct the aid of Providence", ar " spells of putblic work What should we think of a merchant who
vould go to a wholesale house, buy goods, and then proceed to sell them without prices, but trustin his customers would give him costs and profit:
Much like this is the case of the farmer who forks gave his hard work for-the equivatent of har cash-and often the cash itself-without any calculation of what he is to get for it, but trusting t
custom "to get through some way." The recor of the feeding, etc., of a prize steer at the Chicago
Fat Stock Snow tells that every lb. put on him the first year cost only 3.21 cts. per ib., while al put on him the third year cost 41.82 cts. per 1 lb . A profit of $\$ 41.28$; at the end of the third year he sold
at a loss of $\$ 39.36$. Many farmers with plenty of
feat feed and guided by notion only would be in fa
of keeping the said steer till three years old.
Lately, a neighbor one evening while looking at
a small cow I had bought for $\$ 20.00$ remarked that he thought I had made a poor bargain, as she was so small. A big cow of his stood near and I asked
him if he would exchange with me. '. Tut !" said
he "I would ne he, "I would not give mine for two of the time and grazed upon the same pasture. It was milking
time and I suggested a somewhat definite compartime and I suggested a somewhat definite comparthem. We got a sprirg balance and weighed the
milk. His big cow gave 1 lb . more than mine- not much "to brag on." We then sampled both milk despised little cow showed 5.2 per cent. of butter fat; that from his "fine big cow" "3.2 per cent. Nor
is this all. His big cow probably takes a third or is this ail. again as much food as mine. Takiug, both into consideration, it is safe to assume that my little
cow gives twice as much butter for the same food as his cow. The revelation made by that test is the death warrant of the big cow. She shal, because
fall. I got and keep the said little cow, be for every dolar's worth of deed she worth of milk. she gives me mo in the fact that a decidedly unlovely
And in spite of the
poor old maid raised her, I like this little "hardpoor old, maid raised her, I like this little "hard-
looking, cow, for she gives me daily that more which helps me I love. My neighbor kept and liked
children whom his cow (before that test) because
himself, and she is a fine big cow.
So murh for business farmin
farming till the next rainy dav.
J. notion
J. M.

Lime and Nitrogen.
In a translation from the German, which ap-
peared recently, it was stated that lime was an peared recen of nitrogen. This is true in part ontrogen in the soils, for when caustic lime is applied it containing nitrogenf as grass manure, muck, etce., and liberates nitrogen as ammonia. Though the soil retains with tight grasp a small pluantity of
ammonia, still, if the anount liberated is large, a
corresponding amount will be lost, so the folly of applying lime in large applications is seen. No
more should be applied than will liberate sufficient ammonia to be taken up by the growing crop. The
immediate effect from an appliation of lime on land which contains a considerable amome of or
ganic matter is to greatly increase the crop; but, elansed the soil will be lift poorer than before.
This will tee reatily understood when we consider that lime is not really aplant fond, but more of the
nat ure of a st mulant. 1 ,hif liare crops are taken
off and nothing added, the land is sure to become exhansted. These facts have given rise to the com
mom ideat hat large appliationsof lime imporerish
he soil. More lime than is necessary for the use of plants is found in all ordinary soils. 1 sme atso
tendsto the unlocking of inorkanic ford supplies
 Blication of lime will be the rendering of stit

## DAIRY

## Skimming Milk

The following letter has been received, which
peaks for itself, and an opinion asked concerning
Odessa, Nov. 3rd, 1893.

## Editor of Farmer's Advocate

Will you kindly answer, through your paper,
what you think of taking three pounds of butte from one hundred pounds of milk and then making
Cheese of the balance? If "Subscriber" means that a farmer or dairy man makes three pounds of butter from on hundred pounds of milk produced on hi
farm, and makes the balance into cheese and farm, and makes the balance into cheese and
sells it as skim-milk cheese, we have only to sy
that he is doing a perfectly legitimate business, and that he is doing a perfectly legitimate business, an s long as he does not decerve people as to the he pleases with his own product.
But if "Subscriber" meanst that, a patron of a
cheese factory, or one who "pools" his milk with his neighbors, deliberately makes three pounds o butter from one hundred pounds of milk and then sends the balance to the cheese-factory to be mad p into cheese along with his
then we have a very different opinion to give.
We have the same opinion of a man a ho send kimmed or watered milk to a cheese-factory as o the common thief or burglar who breaks in
man's house and carries off his property. In some instances we have a higher opinion of the commo hief, as he does not hay man who "pools" skimme and watered milk with his neighbors' whole milk endeavors to maintain an attitude of honesty an
straightforwardness in the community while carry ing on his underhand robbery. It does indeed
seem to be a mean, despicable piece of business for person who has the respect and good-will of hi of honesty towards them, to take advantage of hi good reputation among them to systematicall
take what does not belong to him by supplying milk to a cheese-factory from which butter has three maunds of of butter out of every one hundred factory is just taking that much from his neigh bors. If butter is worth twenty-five cents pe pound. he is getting seventy-five cents a hundred
out of his milk,the larger portion of which belongs, justly to his neighbors wi
milk at the cheese-factory.

It is difficult sometimes for the human mind to conceive of what "meanness" a man is capable scriber" is almost without parallel among the man cases of tampering with milk supplied to our
cheese-factories. In the milk received at our heese-factories after 31bs. of butter havebeen mado out of 100 lbs . of milk, there is not much buty l 隹 to make an inferior kind of skim-milk cheese in Western Ontario where a patron pleaded guilty to adding 60 per cent. of water to the instances ar
he sent it to the factory. But such instan unusual,and, as a rule, persons tampering with milk don't go so far, but content themselves by add
from 25 to 30 per cent.of water, or by taking off about fof thecream. Doubtlessa great many of them thin chat the guilt is not so great when only a sma
fraud is committed, but the act of dishonesty Sol.

So many reports have appeared in the pubhic tampering with milk, that it may appear to many and that the law, instead of stopping, is unable to serve and offenders are not afraid of it. Such is not the case. The law is more work ine than accurate, inspectors have a better knowledge of more offenders are brought to justice, and thus it There was a great deal more tampering with milk supplied to cheese-factories 10 years ago thanat th reliable, the law had too many loop-holes bv which the guilty party could escape, inspectors and cheesemakers were not as well posted, and therefore not
so many offenders were hrought to justice. Thus it was that a much smaller proportion of offenders skimming or watering milk was not carried on to any great extent at that tin
With the Bahcock Milk Tester and the Lacto-
meter, an inspector who understands his business thoroughly and does his duty has not much diffiCulty in lowating the natrons who are given to tarts
nering with milk. We have had no definite reorts
from inspectors in the Eastern portion of the Province of Ontario this season, but there is a st riking example of what Man be done in this line
in the report of Mr. T. B. Millar, Inspect or for the

Dairymen's Association of Western Ontario. He
laid charges against 35 patrons for tampering with milk during the past season. Thirty-three of these pleaded guilty, and the remaining two were proven Peaity at a regular tran not be amiss just here in reference to the amounts of the fines imposed.
They have been altogether too small and not alt ail in Keeping with the enormity of the crime. The law reads that anyone found yuilty of tampering fine of not less than five dollars or more than fifty for the irstorencer, the highest fine imposed was by Inspectlars and costs, while the much larger number of them were only fined five dollars and
costs. To a man who adds from 30 to 60 per cent. costs. To a man who adds from 20 or 30 per cent. of of water the butterat, $\$ 5$ or $\$ 10$ fine is not of much consequence, and he can in a very few acys, if he has a fairly large supply of milk, get back the an ooubt
by carrying on his systematic stealing. No doub many of our local magistrates do onot like to be hard on their neighbors, and desire to retain their
good-will by being as lenient as possible. This good-will by being as lenient as possible ${ }^{\text {and }}$ mhis towards them, but when these neighbors abuse their right to the good-will and sympathy of those around them by come is negligent to his duty as a dispenser of justice if he allows a patron who pleads guilty to deliberately skimming or watering milk to eecape without meting out punishment as parties given to tampering with milk feel that whenever caught in the act they can go berore a Justice of the eace, ack or $\$ 10$, they are going to keep on so long as they are making anything out of it. If instead of a $\ddagger$ or or $\$ 10$ fine being imposed, it were made not less than ewenty-dhe law, "'milk in some cases, the consider a while beforerunningthe risk of making themselves liable for such an amount. Besides, if a few parties were eso punished
it would be a warning to others who were inclined to it would be a It is hoped that local magistrates will look up this matter in its true light, and will do all that is in their power to put a stop to skimming
watering milk supplied to our cheese-factories.
A very effective means of putting a stop to tampering with milk is to pay for it at our faccories fat. This system has been adopted by a number or large factories during the past season, and has given pretty general shis system and pay a man for factory would adopt this system and as the quantity, there would be no temptation to water or skim the water he added, nor as much for supplied. As far as we can learn, the past season are
paid by this method during the pars pretty well satisfied with the re who are dissatisthere are parronstem and are anxious to go back to fied "pooling" or old method. But these grumblers inveraobly are those whose milk does suently they
high as their neighbors, and consequent high as their neighbors, method, as their inferior
naturally prefer the old malue by being nixed with milk will be increased in vilue There have been some great revelations at these factories during the past soason. Pew system last winter are not quite so
of the new
enger when they find out that their milk does not contain the amount of fat they expected, while others who were strongly opposed to the system
before it came in force are now in favor of it, ust because their milk is showing up much better than they expected. It it in expected ope the system as
has inferior milk whis dops not lessen the fact long as he can, but this does not losse which will
that he method is a just one, and one when give every patron of a cheese-factory t. It also has is due effect of making the patron take better care of
the the effect, ot he feels if he does not stir and air his milk properly he will not get as good a test ; and
consequently, if it enables the chesemaker to get consequently, , will bin alle to make hetter cheese,
better nill he wall ed and the business placed on a sounder basis than
Home Dairying at the Ontario Agricultural College.
Edito of the Fravers ADVoctie: number of inquiries about our course in dairying. I shall esteem it a
faver, if you will allow now, to say through the
factium of your paper it few words which may serve as an answer to many duestions.
 ing, and get more or
that departmont througho their whole course;
and the training given in this way is thought to be and the training given ormain with us for two or three years.
For buttermakers, cheeseminkers, and others
bat

of dairying in its different branches, viz., milk-
testing, buttermaking and cheesemaking. of dairying tiermaking and cheesemaking. Last
testing, butter we admitted sixty applicants foŕ this course year ref adm oved eixghty. This year we are erect-
and refused and refused over eilghy. for the accommodation of
ing a new dairs building
a larger number, say one humdred students, and a larger number, say one hundred students, and
already, without any advertising, the pressure has already, without any advertising, the pressure has
been so great that we have admitted one hundred
 file between twenty and thirty applications for 1895
Another class has still to be provided for, viz Another class hasen, and perhaps some older young men and women, and perrapse some ourse so
persons, who do not wish to take a full cours parstons, fit themsel nes for factory work, but want to
learn something about the latest and best methods learn something about the latest and best methods
in home or farm dairying. For this course we are now providing. Henceforth, our new dairy building and one-haif of the old building will he devote
to systematic instruction in milk-testing, butter to systematic instruction in milk-testing, butter
making and cheesemaking on a large scale, for making and cheesemaing on themselves fully for taking charge of creameries or cheese factories; and the thet harg buttermaking on a smaller scale, and in a way adapted to home or farm dairying. This home dairy department is intended especially
for farmers' sons and daughters, who may desire for farmers sons an aboughters, whomething about the appliances suitable for dairying on the farm, the care of milk and fream, the best methods of churning, the salting,
crorking printing and packing of butter, the use working, printing and packing or the running of of the Babcock milk-tester, atd the running of
cream separators by hand, by tread power and by Unde
Under the direction of Prof. Dean, Mr. T. C.
Rogers, our own buttermaker, will take charge of his home dairy department, and those who wish nstruction in this department may enter at any
imewithin the two and a-half mosths, commencing in 15th January, and may stay as long or as short on time as they wish. I may add that we had five
thor
the ladies in our dairy school last year. They liked
the work very much, and took a high standing at the work very much, and took a high standing at
the end of the term. We hope to have a number the end of the daughters apply for this home dairy
of farmers to
course to commence on the I5th January next, and course to commence on the 15 th January next, and
would suggest that applicants state when they would suggest that applicants stae propese to stay
wish to enter, and how long they pres
Yours, \&e., JAMEs MILLS. Ontario Agricultural Cours, Cole, Guelph,

## Factors Necessary to the Advancement of the

 Dairy Industry.The first great step in the advancement of this great industry has been taken in the form of the
Travelling Dairy. It has done, and is doing still, Mravelling Darr, and will continuene to have its good in
a good wortil the people of this country have be
flunce until a good work, ane poople of this country have be-
fluenceuntil the
come educated to adegree that surpasses its utility come educated to a degree that surpasses its utility
and at that time the Travelling Dairy may be laid ${ }_{\text {past. }}^{\text {phis step taken, the next seems to me to be in }}$ the direction which would uniform the quality or organization, onduct, and reduce rapidly the poor
the good orod worse than either of these bad, and even worse than either of these and gained a name not to be ashamed of ; this ha and gained a name not to be ashaamed of this ha
been done mainl manufacture and sale
When the manuf
centralized in the same wav, and managed with a centra perseverance, zeal and thrift as has char
muth ancterizers the cheese industry,
anter will be a thing of the past.
I take the aspect of the butter industry be
cause $I$ am better acquainted with it, and because of the more need of such agitation
Thecessful producers of butter at a fair margin o profit, is better breeding and general manage ment of our dairy stock. We must cease to follo the general purpose pe object, and work all auxili aries and laterals as such-not hold them all in our hands and fail to make a thrifty success of any
The first thing, then, is for us to have decision o The first thing, then, is tor us the thave decision
purpose, weigh well the merits of all lines. choose
carefull our course and then drive each nai purpose, weigh cursse, and then drive each nail
carefully our
and pin in our framework home with a firm and and pin in our framework home with a firm and
steady hand. We will meet obstacles and discour seaments many times, and in many difcerent
aforms, but the steady plodder "gets there" in the end. we take, for instance, the production of butter, select as
under our aried circumstances, breed them to a
good male of some notably good butter breed of good male of some notably yood butter breed o
cattle - I care not what on choose, so long as it is to the point and purpose of producing the seem a
the east cost. l the beginning it may se
sort of retragrading to the eye that has been sort of retragrading to the eye that has been
accustomed to the tine, symuetrical, well-rounded
 year the difference between the butter product of
an inferior or fair miviking general purpose ow
and an improving or fuly developerpecial nur-
 A pound of butter is worth three prices of the
best beef; it does not cost three times the labor,
and the cost of the feed is computed to be the same
ne ither case. Moreover, when we are selling our in eor at a coos. Mrice we are getting a a profit.
labo aten we have attained the points of exce When we have attained the points of excellence
in our herd so much desired, which of neessity takes much care and good management in all ways, yet for the butter product, and to attain the most
enten in th reputation there is apid and best advance in its reputation, there is
nother care which we must ever keep in sight, nother care which we must ever keep, in sien
viz.: We must guard well our market, and pro-
duce ust what it asks for-feed that which will inace just what it asks for-feed that which will
duve the butter the selling qualities. The place to
ris. nake the best butter is in the cow stable; if not good there it cannot be
may be made bad atter.
One of the most prevalent causes of low prices for butter at this time of the year is the turnip
flavor. People think they can't get along without feedor. Poople thin thet they wonder why butter
feedig turnips, and simply taking their
is so o is so low-they are simply taking their money out
of one pocket and putting it into the other. If of one pocket and putting int
turnips . were not $r$ aised for the next five years for feeding cows giving milk, nor fed to them, and
fore butter made on the factory system, I believe the demand would be ter
hence the price better. future of this industry,
The outlok for the fur think, promises well, as soon as we centralize our
manufacturing and raise the standard of our dairy stock to an increased production at no more cost, for as we improve the quality the demand will in answer, it will take at least four of good creamery to fill the wat I known this from our own cus tomers since they began. It is an industry not hely to be overdone for the next century, but
may be done over-remodeled-many times.

QUESTIONS AND ANSWERS.
answered by dr. mole, 260 adelaide st. west, TORONTO.
congental bronchocele.
W. Mole:-"I have a colt which was born with times getting as large as a hen's egg. The throat seems to be putfy, and the lump can be felt yet,
but does not show from outside like it did but does not show from outside like it did.
would be much obliged if you would prescribe for him through your valuable paper. Tumors of the neck in horses are not of a very
common occurrence, and operations for their removal are not to be recommended. They are generally connected with the Thyroid glands, and
more commonly known as Derbyshire Neck. Exmore comm in cases where the tumor attains a a large size, and does not cause any more inconvenience han you detail, we would certainly advise no in-
terference. An application of tincture iodine terference. An application.
twice a week can do no harm.

Legal.
Adam Yoča:-"A contractor made a verbal
Aas with me early in September last to build for me a small stone house, the work was to be pushed through rapidly, and a number of men put pushed ahead as agreed, and it is impossible to ave a satisfactory job made now on account of
the weather. The contractor was to have his noney as soon as the work was done. What are ny rights:
contractor agreed to make you a good
finish it as quickly as reasonably job, and as mishld appear to be the case, then if he Pas failed to do so, either as to time or the quality
ha the work, you are entitled to set off your loss against the contractor's claim, and your loss would include reasonable damages sustained for the time you are kept from the benefit or use of he house, order to make the work as good as the contractor order to make made it according to his agreement with youl. You are not bound to accept the work if not properiv cone, an may have it made right, and deduct the cost from the contractor, no matter if the cost amounts to as much as the original conract price. If the contractor, howe ver, can agree-
does complete his work accordin, to his agrent ment with you during the present season, then he of course, any damage you have sustained for the time you have heen improperly kept from the use and satisfy yourself that you are right about the fact as to whether the work is done according to
he contract, both as to time and quality of work
B. R. Bleakxey:-" The line fence between my farm and an adidioining farm is not on the true line.
How am 1 to have it put right? I had the true
line rum ty do surevor, Assuming your remedr is not gone by reason of
being barred ly the statute of limitations of hections in your rrovince, which we cannot tefha
cou do not say haw long the fence has been where




Deciember 1, 1903
THE FARMER'S ADVOCATE.

|  | milk and grains. With the other grains, corn, which should always be fed at night, furnishes the yelk its oil and albumen. The yelk also contains vegetables and grasses contribute. Grasses and | Female:--Thighs,-Of medium size and well ered with soft feathers ; Shanks,- Of medium length, fine in bone, well apart, yellow, which in hens may shade to light straw color: Toes, |
| :---: | :---: | :---: |
| Poultry on the Farm. <br> by mrs. ida e. tllson, west saleam, wis. |  |  |
|  | vegetables also contain considerable soluble lime, so some fanciers rely on variety of food with plenty | color the same as the shanks. |
|  |  |  |
| Scientists have said milk and eggs are the only articles of food containing each in itself, all the elements of the human body. Farmers think they | so some fanciers rely on variety of food with plenty bone or shell. Musty grain, decayed vegetables and tainted meat, in any quantity, will as surely |  |
|  |  |  |
|  | vitiate a hen's blood as they would our own. To sum up, the poulterer is feeding for results. So |  |
|  | sum up, the poulterer is feeding for results. So much food in winter goes to create animal heat, |  |
|  | there comes great saving and more comfort if grain is heated before fed, and warm cooked veg |  |
|  | grain is heated before fed, and warm cooked veg- etables, meat or meal are given every day or so, |  |
|  | with plenty of warm water twice a day. Then, what matters it |  |
|  | at snow and sleet will raven |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | Filth and Lice. |  |
|  | Whether filth can be said to stand in a causativerelation to lice or not, it is certain that they usually"hunt |  |
|  |  |  |
|  |  |  |
|  | "hunt in couples,", and where you find the one, there is the other also. It is also further fact |  |
|  | that where lice are abundant, eggs are scarce.And a still further fact is that where eggs are |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | of a dishonest seller. The claim, therefore, is thus made: If you would have large profits you must |  |
|  | have abundance of eggs; if you would have anabundance you must have a dearth of lice ; if you |  |
|  |  |  |
|  | would havea dearthr of lice you must get rid of the filth in the houses. The moral is too obvious to |  |
|  | require stating, but when you find a poultrymanwho is making a handsome profit of his fowls, we |  |
|  |  |  |
|  | advise youl to make an inspection see how neat everything is, how free from lice the |  |
|  |  |  |
|  | premises are, and how happy and contented his fowls seem to be as they go singing about their |  |
|  | yards and inhale the freshodor that arises fromwhite-washed walls, sanded floors and carboic-anointed roosts. These are matters that every |  |
|  |  |  |
|  | poultryman should know, and knowing, should put into daily practice. |  |
|  |  |  |
|  | commences to cultivate poultry in the spring ofthe year. At that time it is thought to be the |  |
|  |  |  |
|  | most economical to purchase a setting or two of most economs, from which, with good luck, half a |  |
|  | dozen or a dozen chickens may be secured. Ith thechicks can be got out early, and carried through |  |
|  |  |  |
|  | teur who has courage to buy egge enough to givehin a goodsized flock of chicks at frst ohich,hinwith extra attention he is able to rear, is lucky. |  |
|  |  |  |
|  | We incline to the opinion, however, that thebetter method is to commence with young stock |  |
|  |  |  |
|  | in the fall of the year. The reasons for thispreference are, that prime young fowls can be ob-tined at less averae cost in November and |  |
|  |  |  |
|  | December than at a later period. Breeders have surplus birds to sell then, and a better opportunity |  |
|  |  |  |
|  | year. <br> Buy now, before severe cold weather sets in, |  |
|  | when fowls are liable to be injured in transporta- |  |
|  | tion. <br> Enciers will demand much higher figures next |  |
|  | spring, and justly, for it will have cost them a considerable sum to keep their flocks through the intervening months. |  |
|  |  |  |
|  |  |  |
|  | most profitable stock to keep, whether we have few or many, and these will turn to best account |  |
|  |  |  |
|  | the food and labor bestowed upon them by more quickly fatting, by more thrifty growth, or by |  |
|  |  |  |
|  | The old mongrel race of farm-yard fowls have well nigh "played out" in this country, and wherever | Dominion. The regular agents now in our employ |
|  |  |  |
|  | constrained to believe that their owner does not read the poultry or agricultural papers much, in which, at a very trifling cost annually, he might |  |
|  |  |  |
|  | readily learn how he could improve his income in this respect. |  |
|  |  |  |
|  | Fowls your fowls some instead of all the rubbish that is fanned out of grain, and on which they can <br>  |  |
|  |  | of this year and 1894 for $\$ 1.00$; for $\$ 1.10$ we willgive the Avocate for the same period and onecopy of our splendid picture "Canada's Pride," afew copies of which we have on hand. With such |
|  |  |  |
|  |  |  |
|  | Plymouth Rocks. |  |
|  |  | us many new names between now and Christmas. If possible start to work immediately, before the |
|  | To settle an argument, please say, in you can, the points of a Poymas yellow legs with black spots |  |
|  |  | other papers are in the field. |
|  | on them: $B$ says clean yellow legs: $\mathbb{C}$ says light |  |
|  | Olid Subscriber. |  |
|  | Rocks The Barred, the Pea Combl Barred, and |  |
|  |  |  |
|  | the the scale of points except that which the |  |
|  | nam the standard of excellence the points given |  |
|  |  |  |
|  | They are for the male:-Thighs,-large, strong, |  |
|  |  |  |
|  | well-wereq wh mot in bone, well apart, yellow; |  |
|  | Tons, -- traight, strong, well spread, of medium |  |
|  |  |  |

## APIARY.

The Apiary.
bee culture at the world's fair.-Awards. That Ontario apriculture should come out of the great Columbian Exposition in most creditable form, like agriculture proper, horticulture, and
almost every other Canadian culture, was hardly to be expected, considering its comparative youth and the probable competition, especially from its greatest and nearest neighbor. But it has done that very thing, and thus proved the floral status of Ontario as well as that of its apiarists.
The province has taken no less than seventeen awards in the department I had the honor to repexhibit, and fifteen individual awards. Following is the list:
Allan Pringle, Selby, for the Province of Ontario, ward on collection exhibit of $2,500 \mathrm{lbs}$. of extracted honey. Allen Pringle, for the Province of Ontario, award on collection exhibit of extracted and comb honey. The Goold, Shapley \& Muir Co., Brantford, on clover comb honey, 1892 ; ditto, 1893; ditto on honey extractor; ditto on brood foundaight Owen Sound, on Linden extracted honey. J. B. Hall, Woodstock, on clover comb honey, 1892 ditto, 1893. D. Chalmers, Poole, on thistle extracted honey. Geo. Wood, Monticello, on Lin den extracted honey. Abner Picket, Nassaga waya, on Linden extracted honey. Geo. Harrison \& Son, Dungannon, on clover extracted honey. A. E. Sherrington, Walkerton, Linden extracted honey. J. Newton, Thamesford, comb honey.
Comparatively and relatively speaking, this is a very large number of awards for Ontario, being more than all other foreign countries combined, and on honey alone more than half as many as the whole of the states combined. Let it be remembered that I had but one exhibit case in which to make the Ont
states had several individual exhibits receiving That the above individual exhibits receiving assumed. Many of tho ;e left out were doubtless about as good, but the difficulty a judge experiences, no matter how competent and impartial he may be (and I freely predicate both qualities of the American judge, E. Secor), in deciding between numerous samples nearly if not quite alike, is wel known to all who have been calied upon to perform so difficult and unpleasant a duty. Moreover, as
 judge might recoard, noting its various points of excellence designated by numbers, the jurors, who ultimately make the award, might select one for the award out of half a dozen exhibits nearly alike but with figures differing a little. While, there fore, the primary responsibility of determining the real character and qualities of the exhibit, and ac curately noting the various judge, the ultimate re otherwise, devasibility of making the awards rests with the jury. Some of the exhibitors, knowing the merits of there is anything in lots of company they hav hundreds and thousands of dis:appointed ones in The Ontario honey exhibit as a whole was
acknowledged by the disinterested and impartial visitor, and even by interested ones, to be superior press-of which the Chicago Inter-Ocean, the press-of Whicago Mand the National Review might be quoted. Even the American bee journals acknowissue, says: "So far as extracted honey was
concerned, canada made the most attractive showing. Especially was this true in regard to
the manner and vesiels in which it was shown. the manner and vessels in which of honey, both
There was a great variety of kinds of
liguid and in the candied form, and the sizes and varieties of the glassware, were the arous t mention. Some of the grass jars appen height. There
in diameter and two orthree feet in
wasa small lot of comb honey from Mr. Holtermann, I believe,", (This is a mistake. it belonged to the (ioold Company" exhibit "that was mex-
celled. Some from Mr. Hall was also very fine. The Canada exhibit was under the management
of Mr. Allen Pringle, and it is probable that no better man ould have been chich makes these conmments, is per haps the most conservative and carent, oive us credit for "the most
we richly deserved it.
The bee-keepers of Ontario have ample reason
ob be satisfied with the results of their showing at
ihe Whordts Fair.


THE STORY
A $\overline{\text { Sacrifice. }}$
It was an evening in that fearful winter of 1854 , memor
able for the Crimean war, whose terrible stories of danger privation and heroism the veterans delight to tell by the fireside
at home.
The cold was intense, snow lay thick upon the ground and wasstill falling noiselesssly through the gray and dusky air upon
an English around the tents, and the men were seeking such warmth as
wat oto oo obained around the campfres It was the eve of
battle, as one versed in the ways of wars could tell by the
 men were silent or spoke only in whispers. Their thoughts
mere doubtless too oppressive for more loudy spoken words.
wit

 have taken him to be older. Crouching close beside him was
litle Charlie Hiton, arecrit-almost a boy, indecd, , but there
wase art was a sort of friendship bet ween these two, for both came from
the same village at home, in the garden of England, a quiet
little village perched upon a hill, at the foot of which lay the fair "Weald of Kent." the recruit whispered, "if anything should happen erye moumork just like the old hands!"
"Well, why not "There's as much cha
"،Are you afraid?


"But if anything should happen to me," Charlie persisted.
".on, youlli be all right, youngster."
 Those confounded Russians doreat, that when all is donet on
want you to promise me, sergeant
morrow if you shuld find my-it you should find me among
trow
 not like it. But you know her. We are to be married if I come
safe out of this. If tont Ithink she would like to know that
Ifell with my face to the enemy." I fell with my face to the enemy.",
"his time the young fellow fairl broke down,
You sa y I know her. May I ask who she is?

Then there wasa dead silence between them, during which,
as the fickering frelight danced upon his features, any one as the fickering firelight danced upon his features, any one
who had been watching him would have read a world of un-
spoken thoughts upon the sergeant's face - a short but pathetic poken thoughts upon the sergeants face-a short but pateat
history of human woe Such an observer would have read his
ecret, would have understood that Noel Easterbrook loved secret, owuld have understood that Noel Gasterber that his
Mary Ahford too. That he had imazined and hoped
ove miint ove might some day be reauitted, until these words came
dispel his dream owords soken in all innocence, but which
ierced his heart as fatally as could have done a Cossack's
lance thrust. tilton who first broke the silence
It was
"You have not answered me, sergeant,"
"?Yes," Easterbrook replied in a quiet, subdued tone, whic

if I live ," with some hesitation. "I will take it back to he
At this moment an ofticer came among them, and the




 superior ofticer, and a f few minutes later the sergeant, Hilto
ant wo other soldies were passing over the nowlad plain
with the




















 The Sergeant, not withstanding his experience, had indeed
been mistakent knew that the Rusian soldiers could not
have taken accurate aim in the dark but he did not allow for
he fatalities of chance-those terrible chances which gover

 there was only the mute desire of woun
fain be at rest a way from their pursuer
fain be at rest away from their pursuers.
They had now crossed the frozen streat and were sa
from further danger. By this time the weather had changel
The wind had driven the snowclouds awas, and from a steel






 old sownonsense! Yill put will be sen straitht to the no rear, thate. SSee, we will
carry you as gently as a nurse. Come on; give us your hand, Ryan."
" ${ }^{\text {. N }}$.
"Leave me." "Lear we'll see you hanged first!" Ryan said with
rough good nature.
 ""Well, we.'re not goin
back for him
"And find him dead
 "No!", "Rergeant Easterbrook, with a supreme effort, now rose
to his feetand and supporting himself by the trunk of the tree said
in a stern tone of authority

 what was going on, or he himself wourife.
protestagainst his friends heroiis sarifice.
Goodbye, Charlie." the sergeant said

 and sadly a way over the white desert plain, Noel Easterbrook
sank again heavily upon the ground and rolled over once-sank
this t
Charlie Hilton returned safe home to be united to Mary
Ashford, and there is a tender place in both hearts for that
 onese-the man who wer b
inded, to send her lover
had thi courted his doom.
Exchange

Christmas
The heart is cold indeed that does not feel a glow of love at the very mention of Christmas, the peace, and the month of December is the month of all the year the busiest and the most profitably em ployed, for brightness of a very special sort ani mates us in all we do, and the ittle gitts made odd minutes and costing but a trifle are harbing ward tokens of peace and good-will. Christmas is essentially a children's festival, but old is the ma or woman who will not feel better, whether h takes part or only looks on at these festivities. Th young people of the household have it in thei power to make it the brightest day of the year fo friends and relatives if they so determine, whil mother looks well to the gastronomic par feast for Church or Sunday School will be on the order book also, but there will be plenty for all if a little fore hought is exercised, and what a happy, tired
of young people at night! Think kind thoughts of young people at night ! Think kind only kind
do kind acts, make a resolution to do onlo forl
acts, and when the duy is ended you will feel you acts, and when the duy is ended yor
have not lived this day unprofitably.
Mamma, reprimanding her three-vear-old son Who is Hagrantly disregarding table etiquette
-If we were at another table, I should be so ashamed of roin I should not know where to hid my head." Young Diogenes, not at
Aunty:-.. So you took rour first dancing lesson
oday Did you find it difficult ?", Wee nephew: today" Did rou find it difficult?" Wee nephew:
". No auntr. II easy nough. All you have to do
is to keep turning round and wiping your feet.

## THE QUIET HOUR.

" The Child on the Judgment Seat. Where hast thou been toiing ald day, sweet heart,















The servantst where not thinine! the prise and the blame
Shee further than thanine ore mine.






But how fared thy garden-plot, sweet heart?
Whilist thongs sat sit on hejudumenteset
Whit










Readiness to Judge.
To condemn our brother without reason, proof or reflection, is what we each onking, and almos at every moment of the day. A habit of rash and ill-natured judgment shows more than anything else that the soul is not living the new life-the life
of God. It announces that the two principles of of God. It announces that the two principles of life, humility and charity, are still foreign to it. The coarsest have a very delicate conscience when it comes to judging their neighbors. In confessing,
as we needs must, that unfavorable judgments as we needs must, that unfavorabions in general,
form the groundwork of conversation how can we help concluding that men find their in terest or their pleasure therein?
In what cases is it allowable to pass judgment? In those where to be silentwould an injustice to our against the glory of God, or aded we speak in our own name, there is courage and Christian gener osity in clearly expressing the opinion we hold
of our brothers, even when it is very unfavorable.
Before we judge like God, let us see as He does "whose eyes are too pure to behold in ourselves, we shall feel that we have something better to do of our neighbor's heart. Generally, we judge those faults and vices which directly injure society much more severely than those fre we proceed from the point of view of the general interest, in which our own is comprehended. Most men, in that narrow fail to reflect that, from the point of view of th gospel, a simple act of selfishness may guch more serious than a theft, for it contains th

## Impossibilities.

Be not angry that you cannot make others
you wish them to be, since cou cannot make you
y self what you wish to be.-Thomas A. Kempis. The best corrective of intolerance experience of
is increase of wisdom and enlarged expere are
life. Hence men of culture and experience invariably found the most forbearing and tole rant as ignorant and narrow-minded persons are fount
the most unforgiving and intolerant. - S. Smile:.

IINNIE MAY'S DEPARTMENT. My Dear nieces:Do not affect to despise richus, for sneers levelled goods look ofter off than ourselves in this worlds of our own feelings becanse we are less fortunate. It cannot be dented that the greatest power this
earth holds for maiu is wealh first deposit is is made mate may be called the most the the
portant the the the por of many a moral destiny beomine the
ment indvidual ceases to he a slavish dependent, and at sense of freedom from bondage and a new and
fresh feeling of kindness to his tellow wen is folt Perhaps for the first time. The philanthrophist
pho leaves the bulk of his estate to endow a college Tho eaves the buik of his estate to endow a college
or found a hospital is a benefactor to his fellows. True, the possession of riches does not exempt us
from pain sickness from pain, sickness, sorrew, or any other aftiliction,
but it softens and alleviates them, and suooths
the rous the rough spots on the road of life that make the
wrinkles coue wrimkles come prematurey, and give us the
heartache as they jar our sensibilities, and make
usdie hefore our time. We should not love them for themselves, but for all the good we can do with them. It is very true, little money is required to
supply the necessaries of life, but we may have sough to eat and be starving, for enough to eat is not the whole range of our wants: the mental
faculties have a long list of requirements as well facuctes have an
which add much to the enjoyments of life. I
I need not enumerate them, for they are too well known, and the lack of means to gratify them too keenly
felt by all unselfish persons. The possession of felt by all unselfish persons. The possession of
riches has an expanding, elevating influence, and its moral importance cannot be too highly rated So do not underrate the mighty dollarar and call it
vulgar. It has been refined by man's labor and vulgar., It has been refined hy man's labo
for man's use out of material God provided.



Minnie May.
of $\$ 2.00$ for th
P.S.-Minnie May offers a p." All communicabest essay on "Home Nursing." All commun
tions to be in our office by the bith of January.

Page-Holder for a Music-Book.
An ingenious device, not only pretty and comi-
al, but of practical value to the musically inclined. It is a book-opener or page-holder designed to hold open the leaves of large music-books used with
pianos and organs. One of these holders-"musica

attendants"
they aresome-
timese called-
would make a
charming gift
for a musical
friend of either
sex.
To make
one select
clothe
thathes are per-
thett are sooth,
and spread
widely at the
open end, and
gild them all
overorenamel
them in any them in any
delicate tint. Glue to the top a solid pad made of narrow strips nearly an inch in diameter, pat it down around the ly over the joining, cover the whole with a layer of sheet wadding, and over that fit a covering of sof possible and tying it on, around the neck of the pin, with a tightly drawn thread. For the arms,
make little rolis of cambric, cover them with silk or lace baby sleeves, and attach them, one at each

the falling sleeve-ruftles to the end and middle of Open a music-book, slip the pins over the top miing little twins an be. As sketched. one is
trying with all its little might to assist in the sing-
ing, while the other is delightedly listening. An
other holder might representa t pair of of overse cestat calls sing ing toget her, and another a pa rof puarel mar be madeto represest ans chosencharactetsss But those who can draw but hittle may produce very pleasing effects by frist shetching the faces, then
dressing the figures ancorrding to the resulling expressions. Single pins make prety openers for any fook.
One shows a single pin representing a fat trichin, in a cape and sarilet cap, trying to look like
frowning, spectacled student. It was designed for a fun-loving maiden whose fiance was of s serious
 Theses single pins are so ensily trimmed that dozens, all differing, might he prepared in $n$ short


## Cosy Corners.

by evelyn l.
To have one's house cosy and home-like should be a primary consideration. No matter how ex rangement, if there be no air of home life about a roon, it lacks what should be its chief charn. In these days of art magazines and deft and ready need not despair of keeping pace with at least a few of the new ideas in art decoration, and of giving to her home some of those pretty touchea
which serve so materially to brighten and beautify it. Soft draperies of silk or even of the art muslins which come in such lovely designs will be ound very effective, if care eno exing of colors and surrounding.
harmonize The tendency of late years has been to allow esult he for individual taste in furnishing, and the result has been a decided advance rom an artister
point of view. With what an involuntary shudder do we recall that "best room " of years gone by, which was indeed a study in cold, dreary stiffiness. the of wonderful pattern and hue, the ornaments on mantel or centre-table standing primly in pairs, the pictures hung at the same level and safely out
of reach, all combined to form a picture we desire of reach, als conickly as possible.


Drawing-rooms and all rooms are much more comfortable than they used to be, and one pretty
fashion of the present, which bids fair to last, is fashion of the pressy corners.
the fitting of cos design shown in our
The design shown in our first illustration is about as simple and convenient an arrangement as
can be devised, and its construction is described in one of our leading exchanges as follows :
"The foundation consists of two hoxes (which are used for packing purposes) and should be provided with hinged covers, which form the seat.
The covers muse binged abont three inches from the covers must be hinge permit their falling back against the wall when raised ; and should be made in two sections, the piece of seat in the angle of
corner to remain stationary. The seat should corner to remain stationary. The seat should
measure sixteen inches from ihe floor without the cushion, and be twent y four inches deep to the
cust
wall; the length, of course. being governed by the wall; the length, of course. being governed by the
size of available space. The inside of the toxes size of availabe space. The painted, as desired. The expense may be lined or painted as acsiremplished depends
after this much has been accors choice of material for upholstery
entirely on one's and drapery. Any pretty pattern in chintz on
cretonne of which there are numberless patterns and collorings to he had at prices to suit all purses, would be most suitable for a bedroom or houdoir. The figured denimials that come at moderate prices. India silk, or some one of its imitations, can be used for the wall guard, and should be plaited or gath-
ered on two brass rods attached to the wall, at the top and bottom respectively. The pillows may be of the goods used for the guarl. but it is not un-
ninal to have hem of different colors and materials. The seat may he upholstered with a few he pound
an old uilt, or hair can be purchased by the
for stuffing. The round bolster may be omitted,

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THE FARMER'S ADVOCATE.
December 1, 1893
or if used should have a foundation of wood, and be fastened to the box so as not to roll off. sitting-room or living-room of the family, Make plenty of pillows, some with soft. full frills, and that you will not be afraid to use them, for the chief attraction of a cosy corner is the fact of its being a place of rest. The need of some place to drop down for a moment and forget things is a crying one in mostable old lounge cannot be over-estimated. The next time your cares and worries seem greater than you can bear, just throw yourself down on the sofa for have not a oare. Allow the tension to loosen, if even for a few moments, and you will arise strongerand braver to meet them. We keep the cord so often snaps and shattered nerves are left as a result.


In our second illustration we have a more elaborate corner, which will be found more suitab
for drawing-room decoration. The original was for drawing-room decoration. ornamented with
executed in pale blu e enamel ornamer of harmonizing executed
silver, while the draperies were of harmonizing
colors. Another pretty fancy is to use a curtain colors. Another pretty fancy side, using a jewelled lamp for light, but where the room is heated by a stove or open fire-place it is no
the drapery shuts out the heat.

Pretty Christmas Gifts.
A few suggestions for making pretty, trifles for Christmas will


No 1.-Penwiper and paper weight combined No. 1.-Penwiper inches square at the base and one and a-half at the top, and two inches in height Make a box of pasteboard, according to these dimensions, covering the bottom with any plain silk or bronze morocco, and satin, and either paint brocade, chamois, or plain satin, and eces together or embroider the pieces. Join fill the inside with fine gravel or shot, and stuff the opening with rolls fine gravel or shamois or strips of silk or old kid pinked on the edges. Never make a penwiper with woolen stuff of any sort, as infinitesimal threads


dings, mince pies and other good
things will soon be on the way. And mother is ever and anon storing away mysterious looking packages, of curiosity as to their contents. Altogether what a pleasant sense of anticipationreignsevery where. Only
days more! How busy twenty-four days more! How busy your welcome for this time-honored your wetcome who go to school are
guest. Those
striving hard to carry off the yearly

No. 3.-For this pretty photograph-frame a thirteen and a-half inches wide. If the home car penter is not skilful enough to cut the openings for
the photographs, the "Handy Andy" of the village
must be called upon for this part of the work. The must be called upon for this part of the work. The
wood is finished with enamel paint, either ivory or wood is finished with enamel paint, either ivory or
a delicate pearl-color, and afterwards decorated a delicate pear-co and blossoming twigs, painted.
with a few grasse
The same design can be easily carried out for a simple passe partout frame by using heavy watercolur paper as a mation. Plass over the mat, and use stou carboard for the back, fastening all together with
a narrow band of bronze or gilt paper pasted a narrow band of bro
smoothly over the edges.
a

$\qquad$ and the tree itself is already mraked out from mong its fellows-the tree that soon willblaze with ill so lovingly hung upon it. But of all the presents eceived at such a time none are so dear to the ngs, so as those Santa claus puts in their stockittle brothers and sisters. Do not quaint remarks, heir enjoyment and their delight, as they draw orth one by one their treasures, afford as much were as young as they? Charles Dickens, the emient novelist, says: "It is good for grown-up people to be children sometimes, and never betuite agrees with him.
Pardon the digression, but have not all of you Pardon the digression. but have not a who have
read some of his works? Those of you thice cannot have failed to notice his tenderness for children. Those who have are just the thing to amuse and instruct you these long evenings when lessons are over and you sit around the fire. What a pity there are not more old-fashioned fire-places
and hearths, such as he describes in these charming stories. Although in Canada it is so cold that
the cricket has long since ceased to chirp, the kettle still hums, and the chimes of the village bells ring out as of old their notes of cheer, an them a lan
if we listen closely, we too may find in the guage even as Toby did.
The coming of Christmas reminds me that it will soon be time to settle accounts with my puz-
zlers. But there is still one month in which to work, and much may be done in that time. Bnt I cannot draw my thoughts away from the think of it "as a good time, a kind, forgiving, think of it pleasant time; the only time when men and women seem by one consent to open their shut-up hearts, and if fellow-passengers to the as if they were realy fellow-passengers
grave, and not another race of creatures bound on grave, and not and And therefore, though it has never put a scrap of gold or silver in my pocket, I believe it
has done meod and will do me good; and, I has done me good
sav. God bless it."
sut I must leave room for the puzzles, even tho',
dear boys and girls, I am loath to leave you. I dear boys and girls, I am loath to leave you. I
would fain join with you in your merry-making, would fain join with your in can only wish you from
but, this being impossible, my heart, a merry, merry Christmas, and conclude with the prayer of Tiny Tin-' (iod Uvsus, Tovery one." S. Uncle Tom offers a prize of $\$ 1.00$ for the best description of games suitable for winter evenings; it being understood that we are at doerty to publish any of those sent in, even if they
win the prize. Competition closes January Sth. In the coming year we will try a new experiment in the puzzle department and give a prize each issue for the best original puzzle, instead of taking
the whole year's work into account, as heretofore. the whole year's work int o account, as heretofore. subscriber's family. For January we offer $\$ 1.00 ; 50 \mathrm{c}$.
for each issue. All puzzles to be in our office 20 th for each issu
December.

UNCLE TOM'S PICTURE GALLERY.

## Life's Reflection.

by agnes fiddis, deans p. o., ont. Far away among the flowery dells and sumy hills lies a little pond, in whose sparkng the fair, the gay sumbeams dance and mossy banks the elms, tall and graceful, cast their beautiful, picturesque shadows in the clear waters beneath, the sturdy oaks rear their majestic heads above the glassy the flower-scented breeze of rosy June. Out of it leafy recess the thrush, from its tender, musical throat, pours forth its sweetence, while, gaily flying from tree to tree, its bright plumage flashing in the glorious sunlight, the swd happy freedom. At the foot of the little hill overlooking the tiny pondnestlesan ivy-clad cottage, whose pelicately perf ume mignonette, and sweet-scented chuster of pinktinted apple hlossoms. Peeping through the race
of the heautiful climbing rose is a fair, young face of the in which love and truth shine forth in glorious brightness and resplendent loanty. The eyes
sparkle and dance with the bubbling emotion of youth, or, anm, assume a far-a way, dreamy expres-

Yes, just once a year, and it is almost time for
his visit now. Of this, however, I might not rehis visit now. mind you, for already, the deft fingers of my older miecesare busy fashioning the pretty presents that
in a few dars will gladden the hearts of their dea

and pity. On the fair, white brow is set the kindly
stamp of the angel of maidenly love and purity No storms of passion or looks of hate leave their impress on that sweet, young face. The smile on
the parted lips brightens the home like a flood o the parted lips brightens the home like a flood of
sunshine. Men bow down in secret adoration of purity and goodness. A few years speed by on happy wings and th gentle face wears a look more serene, more heaven
Iy, the tender eyes shine with a light more divine -the holy light of motherhood. No angry word falls from those loving lips. No cross look or shade of gloom crosses that mother's face as she bends in her loving arms, with the dewy kisses of a mother's love still fresh on its sweet upturned face Her eyes are raised in silent entreaty to Heaven, darlings may be spared to become useful, kind darlings may be spared to be
Years roll by, the fair face, still serene and calm as a summer's morn, is framed in a crown of silver, hair. On the brow is seen the sunset of a usefu
life. No clouds of doubt as to the future ruffle the calmness of that life's sweet even. No passionate shade of sorrow over the past lingers in the mild
depth of those kindly eyes. It is the autumn of life, and on the dear old face is seen the ripened fruit of a lifetime. Golden deeds, kind acts and gentle words have all left their impress on the noble face. The lips part in a smile as sweet as o her bible, to greet those she cared for so tenderly in the days agone.
On the gentle face in the ivy-clad cottage, be hold the glorious sunset, the golden autumn, the
ripened fruit of a well-spent lifetime.

A Morning Scene.
by . b. Grahan, wallbridge, ont. More beautiful than a dream is the scene dis stand-not a great mountain, but a large, substan tial, respectable old hill sloning to the east. A road descends this hillside, and traversing the tracts of lies like a veil hiding the earth from the light of the morning sun.
Now the mist rises in great columns, again it is
leveled like a vast sea of vapor, while here and leveled like a vast sea of vapor, while here and
be seen above it as it is driven hither and thither Far in the eastern horizon, Fes, even to the ky, while the clouds soaring about their god, the un, seem to have borrowed from his brilliancy al
heir lovely tints of crimson and gold, mingled with icher, deeper purple and softer azure. The windows in the numerous brick, stone and frame
buildings situated on the different farms seem to be the focus of all these glorious lights with which or are loves to array herself. The focus ! Ah!no ainter and still more faint, settle down to the mor, oher light of day, we turn from the aerial world whits ever-changing beauties, and gaze on forest very shade of green and brown and grey. Soon hey also will fade before
To the north, in the shadow of the hills. the littl
illage of Wallbridgelies, while st petching to village of Wallbridge lies, while st green pastur ppear to end in a long range of hills. Farther to the east may be seen the little village Foxboro, while hill octly which the winds, may be seen the white marble shafts marking the resting place of many of the early settlers on its way to the Bay of Quinte, into which it empties at a distance of about six miles fron where we are viewing it. Situated on the harbo ormed by this junction of river and bay, the cit while reaching along the southern horizon, con cealed in some places by forest and hill, the water
of the beautiful bay roll and glitter in the sunlight of the beautiful bay roll and glitter in the sunlight
And now gazing over this scene, far and near, the work of the day has commencd, the birds are sing ing cheerily among the falling leaves, the cattle grazing in the pastures, while man gathers in his
harvest of fruit and grain. Thus, as the morning passest away, each takes up the work designed for him without thinking of the night that is past, yet
dreaming of the beautiful sunset that is so quickly reaming of the beautiful sunset that is so quickly
coming; even as the joys and pain, cares and sorcoming; even as the joys and pain, cares and sor
rows of the present are to those who struggle stern
realities, while those that are past and to come li realities, while those that are past and to come lie
shrouded in a veil of obscurity, and they are robbed shrouded in a veil of obscurity, and they are robbed
of most of their harshness and seem but sad or

## Puzzles.  My semondichan in verse ; And is both brief and terse   1 know Im not clever, But longre ar mired This puzzling art. Fust now 1 am come, Dont turn last away But let me take part In the purzling fray.



1. A title appropriate to
Broneze or copprer killt.
The writer of a faillo
hurch di
$A$ character in Pramous allego Johson $\leqslant \boldsymbol{R}$
A beautiful and voA world -conquering royal soldier
The scene of shakespeares Tvelfh Night,
The ili. Ainalse notorious out thew
Answers to November ist Puzzles.
  ..... 

Names of Those Who Have Sent Correct Answers to November ist Puzzles.

## FARMERS

CANADA

## We can save you money: How? Well, w

 are a wholesale firm, selling direct to thfarmers. We buy only from the manufacturers harmers. Well only to consumers. We will sell
and wo
our goods at wholesale prices toany farmer, or our goods at wholesale prices to any farmer, or
any other person who has the spot cash. Our buyers do their work well, and under our rigia
enot cash system we are, so far as our proflit spot cash system we are, so far as our prone
are concerned, easily satisfied. We would ask
ou to write to us for our Fall Catal Shoppers' Guide, a book of sixty-four pages.
profusely illustrated, and which we will mail free to all who send us their name and address.
The farmers of Manitoba and N. W. T. especi ally will find our prices so low, compared wit
their local prices, that they will scarcely We sell everything, or nearly everything, that farmers use, so do not hesitate to get ors
Shoppers Guide. Here are a few of our prices:
One dozen one-inch line or harness snaps, only $1 \bar{L}^{2}$. horse collars, 81.50 each; lightning hay
knives, $\overline{50}$. each: a complete chopper's kit. including a cross.cut sa w, axe, and everything
required, for only
 pair.
Write for our Catalogue and know just ho
ver

## STANLEY MILLS \& CO.

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RILL SHED CUELPH, 7th DEGEMBER

Shorthorns, Herefords, Devons, Galloways. sheep and Swine, from many wellwhich will be sold on its merits. Cows, Heifers, Young Bu
D. MCCRAE, C. B. HOOD, Secretary,

Scotch Shorthorn Cattle



W
 abranted UK, VEREKUREE lasa specific chemical action or tho hoalng

 AEwaynawiwn wank




 and
 Wanted Nond
 and Horses

Fat Cattle

FARMER'S ADVOCATE
home magazine ADPERTISE IN THE ADFOCATM




 the breder nids if the record is required in in
and satisfactory. In (he work must be paid for by
his form, then the of






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