## PAGES

MISSING


## 

 Sap
protects it. They more than pay ter


 The Grimm Mig. Co., 58 Wellington St., Montreal

SAW
AMERICAN MILLS

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THE FARMER'S ADVOCATE

THE SPICE OF LIFE. Bill Nye late one night entered a
fashionable New a room. He looked seedy, so the be
latel diamonded clerk told him there was only one room left, and that under the cornice,
and that he'd have to and "ob, all right," was the humorist's
" wase reply. He wrote his name in the regis-
ter and pulled out a heavy roll lowback bills. When the clerk saw the
roll and the name, a great light dawned
 sugar in an elegant come to think of it,
we have an
den "oh, all, right,", said Nye. ./ But
and me of Clay." no I Iork swelled and answered: "Why,
no think anyone ever told me
that I looked like Honsy clag", that I looked like Henry Clayy",
"Oh, not Henry," responded Nye, "not Oh, not Henry," responded Nye, "not
Henry; iust common ordinary clay, you
know An American newspaper man was reciting some of his early experiences the
other day to a group of veranda lis-
tener, teners, and said: "When I was a
youngster, writing all sorts of stuff for a small paper in the West, I made some
weird
cound tunders. I I was to write an account of a wedding, and had heard that it had been a quiet affair. So in a hasty
fashion I wrote that owing to a recent bereavement in the bridegroom's family
ther bereavemer only relatives present. But I
there were
discovered too tole was a widower whe that the bridegroom only six months before his wifeond matri-
ond maty
monial venture monial venture therhaps
about it from the chiet, for the bridegroom was his greatest political friend, and explanations were awkward."
tie boon of healtil Health is a boon we value most
When nearly giving up the ghost. We're satisfied to do some thinking We're satisted to do some thinkivg
of how we should ourselves behave In order best ourselves to save From neurasthenia's dire perdition,
Abysses deep where no contrition Abyses deep, where no contrition
Can rescue from the pangs and woes of gout and rheumatismal throes. Turn, sinner, while 'tis called today. Turn quickly from your sins away
And follow Nature's laws so true There's joyous health in store for you.,
Come
Con stens toward Nature's ways,
And comfort find, and length of days.
-K., in Good Health
what a horse would say if he Don't hitch me to an iron post or rail-
ing when the mercury is below freezing. Don't compel me to eat more salt than
W want by mixing it in my oats I want by mixing it in my oats. I know
better than any other animal how much I Don't think because I go free under the
ne whip that I don't get trived.
Dcn't think that because $I$ am a horse Don't think that because 1 am a horse
that iron-weeds and briars won't hurt my han,
Don't whip me when I get frightened
, along the road, or 1 will expect it next
time and maybe make some trouble. Carry you and the bugky and myself too.
Don't keep my stable very dark, for when I ge out into the light my eyes are
injured, especially
if
in snow is on
round Don't say "whoa" unless you mean it. Ceach me to stop at that word wean
Dont make me drink ice cold water no
put a frosty bit in my mouth Wart the bit by holding it a half minut Don't run me down a steep hill, for il
anything should give away I might break your neck.
Don't put on my blind bridle so that it irritates my eye, or my
will be in one of my eyes. Don't be so careless of my harness as



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Ideal is the recognized stand dard fence for Canadian Railmays. Raiilo
 look at it as shown above and read the argument for buying


 cand tell about the galvanizing form looking at the piriture but took a the fence itself fol
that. More heavily galvanize than any other. Easy to build, tits san surface, hilly orlevel

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oheaper than other roofing Send cheaper than other roofing. Fond
stamp for amaple and mention
thil paper Hamilton Mica Roofing Co. 101 Rebeees st.


THE FARMER'S ADVOCATE.
FOUNDED 186

It is Good
Policy to
"Mata hay whid sor
What if
Your
Barn
Leaks p




 They were built quickly, too-sheets nailed direct to strips fastened on rafters.
 May we ostimat for you?
THE METAL SHINGLE \& SIDING CO.,

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Ontario.

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Press, expressed himself about this machine. Said there wss no Press, expressed himself about this machine. Sressed there wain no
comparison between the other style of machine and the Dain.


We have been making enquiries about our machines from people
who are using them. They express the greatest satisfaction. No
who are using them. Thes express the greatest satisfaction. No
kicks. We, of course, are satisfied too, but we want to know more
than the mere satisfaction that any customer of ours mat erper than the mere satisfaction that any customer of ours may express.
We would not be satisfied for a moment if we did not find our press giving better satisfaction than any of those of our competitors.
We find our machine has a greater capacity than any other. We
guarantee 12 tons in 10 hours.
We can make a bale weighing 2001 lb
Easier draft on the horses. Can be operated all day with the
same team. same team.
Easier fed and makes better bales.
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 Suitable for all apple growing soctions
of Canda
OREF Tr Order Trees Now (supply is limited).
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a Binder till you have learned something about the Frost \& Wood No. 3. It is the best Binder on the market to-day, and we want the opportunity of proving it to you. Space in this paper is insufficient to detail to you its many meritorious fea-
tures and exclusive good points. tures and exclusive good points.
Let us send you our Catalogue " $F$."
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interested. You will see there some reason interested. You will see there some reasons
why you should buy a No. 3 Binder in why you should buy a No. 3 Binder in
Don't put if off-drop us that card now.
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Head Office and Worksi Smith's Falls, Ont.
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If you use a waggon of any sort, why not prolong its life and make driv-
ing in it more of a pleasure by using our Bolster Springs. No jarring nor jolting, and easier on all parties concerned.
By their use the fruitman, the market garden
market their produce without ony bruising or waste; consequently, better
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Mr. Dealer, increase your sales materiilly by handling our Bolster Springs.
You market-gardeners, fruit-dealers and farmers, dispose of your in better condition by having a sot of our Springs ars, dispose of your goods Give us width of the bolster of your wagon, and the distance between
Write us direct, or give us the address of your nearest dealer.
The Dowsley Spring \& Axle Co., Limited, Chatham, Ontario.


# The <br> - Persevere and <br> <br> Farmer's Jdvocate 

 <br> <br> Farmer's Jdvocate} Succeed. and Home Magazine

Vol. XLII

## EDITORIAL

(1)

Tha Breed Society Meetings. That there is need for an awakening on the
part of the executive and directorate of most of the breed societies in Canada, is evidenced by the ract that the dates for the annual meetings, not been publicly announced before the middle of January, and that inquiries as to when they are different and distant parts of the Dominion. The directors do not appear to be seized of the fact that this is a country of magnificent distances, that even transcontinental and imperial limited trains do not always, in a Canadian winter, make mails distant from the center of gravity of the societies, as at present arranged, are entitled to at least as carly notice as those in the few counties immediately contiguous to the place of meeting, and where the officers and directors have their homes. Early and sufficient notice is due members in
outlying districts, whether they are disposed avail themselves of the privilege of attending to not. And as not a few of the members in the
Western Provinces take Western Provinces take advantage of the leisure
of the winter months to make business or social visits to the East, they should have timely intimation of the dates of the meetings. In order appear to be practicable in this regard, it would fixed date, if not of the day, at least of thently in which these meetings are to be held so week parties living in the outlying Provinces mia lay their plans to make their visits from the or the West at that season, exact information the day and place of meeting to be mailed the members in ample time, as well as given in the
public press. A continued effort on the the officials of all these associations might also result in special reduced transportation rates be-
ing secured from the railways for those ing secured from the railways for those attending
the meetings. This is the more probable owing to the meetings being held in the month when the questions which arise in minimum. Among questions which arise in this connection is
whether more time could not be profitably utilized at these annual meetings were the programme extended, and not, as at present, compressed into
few hours consideration or intelligent discussion of matters
The question of representation of the various
$\sigma$ Provinces on the directorate, and the method of
their election, would appear to tion, if the sympathy and hearty co-operation of the members in all sections be desired. In the
past the directors for Provinces have been elected by the members present at the annual meeting, which, in the case of nearly all the societies, is held in Ontario, and attended almost entirely by
Ontario breeders. The complaint has been made that this course does not afford a satisfactory representation, and it has been suggested that,
owing to the expense incident to the attendance owing to the expense incident to the attendance
of members from distant Provinces, the vote for of members from distant Provinces, the vote for
Provincial directors might be secured by mail, the secretary of live-stock associations for those Provinces being furnished with a list of the paid-
up members, to be mailed to them with instruc tions to mark the names of those they favor for
return to the secretary before a named date.
Whether this plan is practicable, or whether a ne thing that we presume will one thing that we presume will appeal to all is that the good British principle of "no taxation without representation should prevail, and an representation in the councils of give satisfactory representation in the councils of each association, vide for the payment of the expenses, or at least portion of the expenses of directors ing at a long distance from the place of meeting when attending the annual meeting, where he may present the claims and wishes or needs of the breeders in the Province he represents.
Some of the cattle breed societies have ap pointed as their secretary men familiar with the to the work of pushing the interests of the breed and advertising its claims to public favor, reasonable remuneration being allowed him for his work in this regard. This is wise, and the example may profitably be followed by other societies whose financial resources are such as to justify the action. In this age of strong competition, the breed society which acts promptly and vigorousty in an enterprising spirit in making known
the practical merits the practical merits of the breed, will make most larging the demand fors sphere of usefulness, en stock, and enhancing prices for the same , and enhancing prices for the same
the system of official production, and an advanced Record ond butter ance, have done wisely, and this course if persistently followed, is bound to accomplish great good in improving the productive capabilities our cows, thus adding enormously to the profits of our dairymen. And if the dual-purpose cow is to make good, it is up to those who claim to have faith in her future to show their faith by their works, by seeking to induce the breed societies interested to encourage the production and development of that class by establishing Records of Merit, and oltering a liberal list of prizes for lect of whio against any breed of cottle against any breed ainst amy ind does ag
the breed societies that remind the members of the breed societies that if the business of these
organizations is not being conducted as they think it should, if selfish interests are being promoted by cliques or combinations, or if offiin the clerical department improvement will be effected by those dissatisfied absenting themselves from the annual meetings and grumbling at home, or by sitting silent when present, but rather by a full attendance, by preconcerted action and by vigorous protest and properly-presented resolutions, calculated to provoke discussion and compel men to place themselves on record by their votes. This thing of allowing a ncludi oflastagers to transact all the business, including nominating each other to succeed themselves in office from year to year, ought not to
be allowed to continue indefinitely blood of the right kind, progressive A little new be, aggressive, or at least defensive of the if need may add much to the interest of the meeting and to the usefulness of the societies. Let there therefore, be a large attendance of members at the coming meetings.

If your question has not been answered within reasonable time in the paper, probably you

Record of Performance for Shorthorms.
At the approaching meeting of the Dominio Shorthorn Breeders' Association there is one subject overshadowing all others in importance that should be earnestly discussed, and energetic action taken accordingly. That is, provision for the establishment of a Record of Performance for aiking Shorthorns. Such a record woitration, take the place of ordinary heraboom rob a disinct breed. result in the development oans o indicating those individuals or strains of the breed which have proven under official yearly test their superior capalilities in dairy production. It would be the means of developing the milking quality of certain strains, without alienating hhese from the purely beef stock. Every animal registered pure breedit heo there should at ways remain sufficient homogeneity of origin be tween the beef and the milking strains that a bull of the one might at any time be chosen to strengthen the beef type or the milking quality as the case might be, in the other. We need not pause to restate the arguments for more attention to milk on the part of Shorthorn breeders. It has been neglected too long, and we are already suffering the consequences of having pursued the easy way, which has come anl too near leading us to the milkless cow. It is time to retrace our steps some littie distance, and endeavor to bring the grand old breed, generally, nearer to the dualtaken in Britain and the United States, where special recorde are being kept for milking Short horns Surely Conade will not lag behind ! There is still room for the purely beef type Shorthorn out on the ranch, and in other placee where land is cheaper than labor. Probably there always will be a limited demand for such stock, but it will become more limited in Canade as time goes on. Our main beef supply must be produced under a more economical system than all-beef farming. The general farmer has no use for a cow that will not raise her calf, and unless he can get true dual-purpose sires, he will look with increasing favor on the dairy breeds.
or hold their field they will bers are to increase more attert held, hey will be obiged to pay of the breeder who some, at least, of his in purther for beel that cater to the dual-purpose standard, thu ing the competition in his particular Every Shorthorn breeder is interested in thi movement, whether he proposes to go in for mill

Granted that we need more attention to milk, the conclusion follows that a Record of Perform cannot judge milking auatity relia Dairy breeder ance. They have to fall back renty by appear less can we gauge by appearance the dairr. quality
of a dual-purpose breed, for here the selectita of a dual-purpose breed, for here the selection is
complicated by a even the insufficient gecond factor. We have no we seek to breed milking Shorthorns dair. to a dual-purpose type, without relying on rec cords, we shall at best obtain an unsatisfactory velop a strain of weeds inferior we would de not much better for milk.
Whiterior for beef, and that by mustistent effort it experience indicatos develop the milking propensity in cows approach careful mating and selfection, and by by be done by velopment of heifers for several generations. To
work intelligentlo work intelligently along these lines, we require means of knowing the actual performance of of the
ndividuals in the strains we propen individuals in the strains we propose to une
The Record of Perrormance is the guide to be
followed. Let us have it and get to works be
the Farmer's Advocate and Houe Magazine.
the leading agricultural journal in the
THE WILLIAM WELD COMPANY (Litrted).

## JOHN WELD, Manaerr.

colmiss mor Thir farmer's Advocatt and home Journaly Winitreg, Ma

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## The Black Cloud at Cobelt.

At this season of the year the mind usually turns to stock-taking. Once or twice a year about their feet in order to set where they stand. What a man does for himself as an individual, he often does for the state at large, hence the reason for the remarks that follow.
Mr. Archibald Blue, the Chief Census Officer of Canada, in our Christmas issue gave figures to
show that the nation has added to its wealth in concrete forms, and in this respect he differs from statisticians in England and the United States. Figures brought down in those countries try to
show that the increased value of products, due to show that the increased value of products, due to
their scarcity, may be taken as an addition to th total wealth, whereas it simply means that som commodities have been marked up in value b cause the supply is limited
At the very decinased
tional stock-taking, we of our private and $n$ factors affecting the increase of wealth,
and the increased safe and sound increase of represents that part of weal
with a change in conditions
sources most m
appreciable gain in wealth for th
the past five years, but some men wall be
which has come through the marking up procus
Viewing our national situation in the light of
past experience, the public will do well to
its weather eye ope
in with the legitimat
in wealth from the soil and other natural sources has often preceded a commercial crisis we tha to the boom in mining stocks. Cobalt has added fauch to the importance of Canada as a mining
country, but the country has yet to pay for the us. There is great mineral wealth there, doubt-
less. Nothing advertises a country more rapidly than the discovery of rich mines, but it is the few, not the many, that profit by them. Our fear is that the present exploitation of this district will presage depression later on. Mining companies are being floated at an alarming rate, and the people are buying these stocks, as the continuous display of mining-stock advertisements in the daily newspapers prove. Almost daily Toronto papers are filled with dazzling propositions,
calculated to deceive the very elcct calculated to deceive the very elect.

During the past year the par value of the min$\$ 300,000,000$. These stocks are being purchased with money that would otherwise be used to pur chase the necessities of life and to insure an oldage competence, and when used for the purchase of mining stocks is naturally withdrawn from the scene of legitimate trade. Following these investments there is a natural falling off in the purchase of foodstufis and manufactured goods, which eventually leads

## production

assumes course, the blind optimist will say this all assumes that mining stocks are never profitable, but the assumption, according to all past experi-
ence, is alarmingly well founded. The opinions of ence, is alarmingly well founded. The opinions of
three expert mining men who have been successful in the handling of stocks eminentiy mines, as here given, are sufficient alone actual a man from putting his savings into mining stocks, and to dictate a policy of conservation those whose wealth is accumulating either actualor by enhancing values
The par value of the mining stocks author ized in the United States and Canada during the year has been estimated as high as $\$ 900,000,000$ Inasmuch as the vast majority of these propositions are mere prospects, at the best exploration schemes, the character of this speculation is disclosed. It would be remarkable indeed if five per cent. of them should turn out paying investments. There are just two classes of persons who are warranted in entering into mining enter-
prises: (1) The practical miner prises: (1) The practical miner, who makes min-
ing his life-business ing his life-business, and (2) the rich capitalist,
who can afford to take extraordinary risks who can afford to take extraordinary risks.
everybody else mining is a perilous gamble. everybody else mining is a perilous gamble. Even
where there are undoubtedly surface indications of where there are undoubtedly surface indications of
ore values, it should be borne in mind that ore values, it should be borne in mind that one
in three hundred is a conservative estimate of the proportion of prospects that eventually fulfil their promise. The two hundred and ninety-nine fail is made the bait with which success, and that one to three hundred more ventures
The time is one for caution, and it argues ill
for the final outcome that banks and tutions which should exercise a modifying instiare not as conservative in extending credit when
such a boom is on as they are when the sion comes. It is also an ill omen that the American presidential election follows so closely upon this mining boom. Doubtless there will
come a time when the people will clamor wildly ravages of the broker whotect them from the is "a hole in the ground, with a liar at the top," "prospects" which are offered the public should ply the "say so" of the promoter. In this age,
which sanely demands rates of all kinds, why should there not be some
Governmental regulation of mining-stock

Cheaper Now at $\$ 1.50$ than Before at Premium received and am will phased with it. Just

## Our Maritime Letter.

The bane of partizanship is what every ma striving these days for the proper advancement be particularly fortunate in striking a rich vein luck and following it up successfully. The fir of the country under our system are necessaril bound up, to a very great extent, in the function al and the administrative. Parties, no matte how good-and, like the boys of our days, they never seem to us so virtuous as when we were up-coming-are quite susceptible to all the currents which flow on the surface of public life, through which they have to navigate-good currents, bad currents and indifferent currents. The leaders of those parties are good men, amiable men and clever men, without doubt; but, like chips in the current, thrown, they follow, for the most part, the course or the strongest force. One finds little difficulty in convincing them of the excellence of
some important project. some important project. "It is good," they ad-
mit freely in the privacy of their mit freely in the privacy of their cabinet, " but the brightest hopes, almost always delays urgey the brightest hopes, almost The hea
The heaviest of our taxes-and they are always which is paid to expediency and things-is that the mercenaries, whose hands are out tor from every passing measure, whether involving the expenditure of money or not. The old Chancery Office Dickens rendered immortal and ended at a stroke never killed out hope or paralyzed efforts so conclusively as unwilling governments of the day. In the larger communities you feel this tremendously, and suffer from it in all your progressiveness ; in the smaller, it simply overwhelms us. And still the disinterested patriot
must not lose courage. It was said of the present administration at Ottawa that it gave us government by commission. It has, indeed, given us several good com-
missions; the Railway Commission need missions; the Railway Commission need only be Commission has but half the power it should, being a judicial rather than an executive instrument. It would be well that every other department involving the expenditure of public money coultural Commission the commission. The Agri-Post-office, Fisheries and Lands Commissions, the possibilities of the more discerning future. Then,
the statesman can occupy himself high public policy, instead of worf with matters of high public policy, instead of worrying over rob-
ber politicians, whose whole aim is to exploit the
country's treasury country's treasury. Money patronage, at least, is always degrading in public affairs, debauching few really great souls of the receives. How the suffered in their sensibilities because of it
When, in the greater divisions of the Dominion,
urgency in public affairs arises, the very force of urgency in public affairs arises, the very force of representation compels the Executive to act.
Real grievances are thus easily redressed. Government cannot, in the eircumstances, resist the pressure. Big, countries, like big men, compel
attention. In the smaller portion attention. In the smaller portions of the Conment can only be invoked to render justice
bestownot exactly attuned, not, nicely father's heart is with the father's love so as to respongh to all the
exigencies of the case exigencies of the case. Thus the rich plums go
not to those who need them most who have the strongest claim to them, but to those who are most likely, in the day, of stress supporters. political, to roll up the majority of the merely. regulationary, frittered petty states is innumerable official bureaus, and often when it eaches the spot affected, so reduced in amount or devitalized by elapse of time as to be practical-
y worthless. tions of our compact wurely fundamental condi-
disheartened, are trifled with and Maritimely, we are tremendously weakened by
We an scarcely make our voite heard in anything thing and every periect thing is for the West or s not right. Our centers oin old Canada. This
Ond ry. "Whey can't do docimation, of this counWhatically the genius for government, for then they mstacle to a country's prospercity. Do of every
ufficiently? And have they seriously try he necessities which should permit of their reach must work together . If they are not to brovinces
Legited
"orkitive ply, then they must have some common
mands it. Granted the physical bond, which we have gradually become accustomed to the cold, but it with a feather once daily for two or three days before
will ever strive after in the tunnel, we see no will he noticed
will ever strive after in the tunnel, we see no
reason why a Legislative union should not make for the betterment of all concerned. The petty
sentimentality of an autonomous Province for a sentimentatity of an autonomous Province for a
patch of territory not as big as many counties patch of territory not as big as many counties
elsewhere, and for the merest handful of people, is vain; and vain is the boast of our national
leaders, of so many Provinces in Canada's leaders, of so many Provinces in Canada's crown We are, we hope, a too practical people not to
recognize the absurdity of such things. too much perception not to see clearly the have advantage which should come to us through a unification of the political machinery of these
Provinces. We are now frittering away with Provinces. We are now frittering away, with
most disheartening results, our best energies; then we would witness beneficent results every day We are as proud of our Island Province as any one ; we are, we hope, not wanting in the sacred
virtue of patriotism ; but our very dear little Isle, our very sense of patriotism, cry out suredly give us a fighting chance with may asgreat divisions of Canada, and make us some-
thing in the national quotation. To make our selves felt in the councils of the country, we must be a sufficient force to be reckoned with ; we are not now. To get our own out of the
Federation, and the sortage from fortuity, which is the grist from the political and unite quickly and effectively. Let no unite ary matters obscure the consideration of this vital question or distract the public attention
from it for an instant.
A. E. BURKE.

HORSES.
Scratches or Cracked Heels.
Scratches or cracked heels in horses is an inflammation of the skin. It is characterized by redness (noticed
only in horses with white heels), heat, swelling and irritation. It is tochnically called erythema, and is
liable to affect any portion of the liable to affect any portion of the limbs. When that
portion between the hoof and the fetlock oint is inportion between the hoof and the fetlock joint is in-
volved it is called "scratches" or cracked heels; when the limb is affected to a greater or less heeght, prob-
ably to the body, it is called "mud fever"; when the anterior surface of the hock is the seat it is called "sallenders," and when the posterior surface of the
knee is involved it is called "mallenders." CAUSES.-Horses with fatty or beefy disposed to the disease, but it is beefy liable to occur in in
horses of any and all degrees of quality of bone. It may be due to systemic or constitutional disturbance, nduced by overfeeding and want of exercise, or by the
reverse, i.e., a depleted state of the system, caused reverse, i.e., a depleted state of the system, caused by
debilitating diseases or want of proper nourishment. In
either of these either of these conditions slight exciting causes will be ollowed by the trouble. It is caused by heat and
old operating alternately on the skin ; standing in cold operating alternately on the skin; standing in
wet, dirty and ill-ventilated stables; friction, pressure,
dirt and wet. Probably one of the most frequent causes is the too common habit of washing horses' legs,
especially with warm water. especially with warm water. During certain seasons
of the year, when the weather may bern of the year, when the weather may be warm during
portion of the day and then turn colder, it is not un common for horses to reach the stables in the evening
with mud or snow and water frozen to the hair with mud or snow and water frozen to the hair on
their legs. The teamster, thinking the horse would be their legs. The teamster, thinking the horse would be
uncomfortable if allowed to stand in this condition, takes a pail of warm water and washes the legs, and then leaves them standing in the stalls. During the
washing process the hair and skin have been washed, and the air, always colder than the water that has been used, now striking the parts causes a more or less
violent reaction, which interferes with the circulation When this has occurred repeatedly we should not be surprised if cracked heels or mud fever appears. The
practice of washing frozen matter off with warm water, practice of washing frozen matter off with warm water,
or mud of with either warm or cold water cannot but one leg at a time, and does teamster attends to or wisp washing a leg he should rub it with cloths
dry, then apply a sawdust until it is thoroughly
(i) ${ }^{\text {lit }}$ either the time or inclination for such amsters have evening arter doing a day's work. $\begin{aligned} & \text { The above practice } \\ & \text { will prevent a reaction and make the horse comfort }\end{aligned}$ able. At the same time, the horse the horse comfort-
anters little or no discomfort by standing with mud or snow, either frozen or not, a a the case may be. The accumulation is on
the hair ends, and it is seldom the skin is wet. Unless the teamster is satisficd to rub until dry and
bandage he certainly should not wash. Allow the
horse to stand until the ice melts ly the heat of the legs and of the stable, when it will drop off, or until
the mud dries by the same influences, when it, should be the mud dries by the same influences, when it should be
brushed off. Supposing the brushing does not take
Sole place until the following morning, it is much better
for the horse than washing as it is usually done ; hence on general principles we say, "Do not wash your Another fertile cause of the disease is clipping orses' legs in cold weather. When the legs are to be
lipped it should be done in the fall, at all events not
lhe ald will be noticed that when the clipping is not done un- the above treatment is adopted. When the parts smell especially when a horse changes hands, and the case, foul they should be poulticed with linseed meal and a owner, in order to improve the apparent quality of bone, with a view, probably of selling again, clips his
legs, that in the course of a couple of weal cracked heels the course of a couple of weeks he has of this heels and often mud fever in all legs. In cases such an effect upon the clipped logs, that have pre viously been protected by hair, that the circulation is partially arrosted, then when he is in the warm stable
it regains its normal condition, checked when the horse is taken out, etc., etc., and and
this usuly this usually results as stated. The way to prevent skin diseases of this kind in the legs is to keep the
horse in a dry, comfortable place, feed in proportion horse in a dry, comfortable place, feed in proportion
to the amount of work, and as far as possible the direct operation of heat and cold, wet and dry, directly upon the skin.
SYMPTOMS. -The first symptom is a redness of the SYMPTOMS. -The first symptom is a redness of the
skin (noticeable only in horses with white heels), swelling, heat and tenderness. The swelling is probably
the most noticeable, and exercise usually dissipates this. After a while cracks extending across the limb will be noticed, the horse will go lame for a few
steps, and if the weather is steps, and if the weather is cold it is probable the
cracks will bleed a little. As the symptoms become worse; the affected leg or legs swell more when he stands; the cracks exude pus, often of a cases the swelling will nomess increases. In chronic cases the swelling will not disappear on exercise, the
horse goes lame mostly all the time, the parts assume a dirty, greasy appearance, and the odor is offensive.
TREATMENT. If rational treatment be adopted the early stages, it is usually successful in a reasonable


Pomona (16328)
Clydesdale mare; foaled 1899. Bred by Her late Majesty queen Victoria. Winner
time. The first thing to do is to remove the cause if possible. Let the patient have a few days' rest. Give
a purgative of 6 to 10 drams aloes and 2 drams ginger, according to size. Feed bran only until pur-
gation ceases, and even then feed very little grain gation ceases, and even then feed very little grain until
he is put to work again. Follow up with 3 dram nitrate of potash twice daily for a week or ten days.
Local treatment consists in keeping the parts Local treatment consists in keeping, the parts as clean
as possible without washing. 1 might here state that many cases of scratches are aggravated by washing with soap and water. ${ }^{\text {This }}$ is another case in which
we say "Do not wash." The local applications depend to considerable extent upon the weather, and this applies especially when the horse is worked or driven
when suffering from the disease. Lotions, oils or When sutiering from the disease. Lotions, oils or oint-
ments are usually used. In warm, dusty weather lotions are best, as they have an astringent antiseptic action, and do not gather dust or dirt as oils or oint-
ments do. In cold weather lotions ofter astringent effect that they dry up and harden the skin and then the cold weather still further contracts and again, while oils or oint ments have a more softening,
and, at the same time antisp and, at the same time, antiseptic effect, and tend to
prevent cracking. Whichever is used (sometimes they are used alternately, or the lotion applied when the patient is in the stable and the ointment just before
he is taken out in cold weather) should be freely used he is taken out in cold weather) should be freely used
three or four times daily. A favorite lotion is made of 1 oz. each, sulphate of zinc and acetate of lead,
oz. carbolic acid and a pint of water. Probably the best ointment is the oxide of zinc ointment, to which
is added 20 drops carbolic acid to the ounce. When a case has become chronic, and what is generallse called proud feesh is present, it must be removed
by applying a caustic, as butter of antimony, applied
numerous other disorders cases in which horses have il have seen many improper food which was improperly masticated on account of irregular teeth, and where the
stomach and bowels were fuil stomach and bowels were full of imperfectly masticated food. The stomach had ruptured and the excessive distention by the gas generated. Hence, it is very essential to have one's horses; molars in perfect condition. An animal with ircation, and the stomach becomes filled-overloasi--before it has time to make preparations for acting on its contents. The food ferments, and painful colic and gastritis ensues.
The stomach of a horse is
proportion to his size-not half as large small in of the human being, when you compare as that The size of the horse and the services required from him demand much nutriment. When we consider, for a moment, in what manner he is
sometimes treated, there can be no difficulty in believing that the stomach must of riffecessity in be brought into an unhealthy condition. Ifecessity b grain becomes a necessary diet for him, and, i
properly dispensed properly dispensed, is the food that can be given
Hay, when it has that fragrant smell with greenish color, and given in moderaition, is a very
suitable food for the horse in suitable food for the horse in quantity propor-
tionate to his work. A horse whose ach is stufied to the utmost, like every other stommal, feels it a great inconvenience. If taker ani immediately after a full meal and given sever户 Why? Because the left side of the stomber comes in contact with the diaphragm, the stomade
muscle of respiration. It is pressed upont
every motion of the diaphragm. The situation of the stomach after it is stuffed to its utmost will at once explain the reason why a horse is so very hard immediately after a full meal
When the stomach is full of food, and the horse is taken out and given severe exertion, the stom-
ach must be displaced and driven back by every contraction of the diaphragm or act of respiration; and in proportion to the fullness of the stomach will be the weight to be overcome and the animal. If the stomach is too much distended, it may be tpo weighty to be forced suffciently far back to make room for the diaphragm to act in severe exertion. So, you will readily
see that it is dangerous to give severe exertion see that it is dangerous to give severe exertion
to the horse that has his stomach distended with food and water before he starts on his journey. Exhaustion of the stomach, loss of nervous power,
may arise from overfeeding, even upon good food, may arise from overieeding, even upon good food,
but more frequently from bad food that is hard to digest. Exhaustion may also arise from excessive labor, and this sometimes happens in a race-horse, whore the strain is severe. Hence, the This exhaustion of the nervous power of the stomach may be caused also by drinking cold pump Water, especially if given when the body is in a heated condition, or when fatigued by severe
exercise, or by standing in the cold draught when exercise, or by standing in the cold draught when
in that state. Now, as to the process of digestion, which is carried on by the mouth, tongue, cosophagus, salivary glands, stomach, intestinal tract, and different fluids of the liver and pan-
creas. The food is taken into the mouth and masticated with the molars ; here it is moistened with saliva. The saliva is necessary, not only to prepare an it for mant point in the stomach being necessary to digestion. The masticated food is carried by the motion of the tongue into the pharynx, then down the œesophagus into the stom its office being that of digesting the food, and so preparing it as to render it fit for forming blood. In the stomach the food mingles with the secre-
tions, the gastric juice, which not only dissolves tions, the gastric juice, which not only dissolves
the food received in the stomach, but it unites and combines with it, altering its nature and changing its composition. The food, having undergone the process in the stomach, is then conanother and very important change takes place It is here that the secretions of the liver and pancreas are brought and mingled with the mass what is called chyme into chyle, which, as passes along the intestinal tract, undergoes stil other changes. The action of the bile is nature' own cathartic; the secretion of the pancreas has
the power of digesting the fatty matter. Afte the power of digesting the fatty matter. co material passes through the intestines it be-
comes absorbed by the blood vessels, and partly
by the lacteals, and is by them conveyed to the by the lacteals, and is by them conveyed to th
thoracic duct, and then into the general circula thoracic duct, and then into the general circula
tion of the blood for the repair of the body and its support.
The stomach of a horse holds about three gal ons, the small intestines about six gallons, the
crocum four gallons, and the colon thirteen gal cвecu
lons.

## LIVE STOCK.

## What Shall I Do on My Farm ?

## ractiveness and a charm about beef production

 scarce equalled by any other calling or craftHardly a son of the race whose eye does not Hindle when it takes in the image of the ruddy rotund, block-ripe bullock ? Which of us has not
time and again, admired the low, massive form o some show-yard champion and wished that it was
his to say, "I fed him ". or "I bred him ", No his to say, "I fed him or $\begin{aligned} & \text { other product of the breeders and feeder's skill }\end{aligned}$ can ever hope
excellency-the right fat steer. We all like to,
or would like to, try our hands at the feeding or would like if successful in the ring, what a thrill of
and, if sur
pride in the winner's heart, even though he be pride in the winner's heart, even though he be
the noblest of the race, as witness the King with his Royal Duke steer at the recent Smithfield
Show. Show.
Beef-production is one of the many lines of farming open to the Canadian farmer, almost any
one of which, industriously and intelligently fol oned for a number of years, is very sure to lead
lowed
to competency, if not to fortune. Of the other lines most likely to be considered, grain-growing lines most likely the early days proved most attractive, since returns were speedy and the capi-
tal needed for a start very much less than where tal needed co live stock was extensively bred. any class of in a general way, grain--growing may be said to attract such as are ambitious of making a living as easily as possible, with no pa ticular aspirations in the way of homemaking or
farm improvement. No man in the least amfarm improvement. No man in the least am-
bitious or at all thoughtful could long be satisfied
to grow grain, or, worse still, grain and hay for
sale, as a means of making a living in Eastern Canada to-day. The case will be similar in the West in the near future. Such farming is not only the least remunerative, generally speaking, but the least congenial, in the long run, and very
certainly the least calculated to upbuild the nation and increase the national wealth. Grain-
growers gradually see the errors of their way, growers gradually see the errors of their way,
as a rule, however, and begin to keep a few steers as a rule, however, and begin to keep a few steers
to consume some of the straw and other roughness, as well as a portion of the grain from the farm. The influence of the fertilizer thus manu-
factured is usually so markedly beneficial as to factured is usually so markedly beneficial as to
lead to expansion along this or some similar line, and the grain-grower is converted from a soil robber into a decent citizen.
In many parts of Canada, however, grain-
growing has given place to dairy
farming, rather growing has given place to dairy farming, rather
than to beef production, not because of the superior attractions of the former, but on account of its greater possibilities as a money-making business, and on account of the practically unlimited lends itself to the enterprise of the small farmer much more satisfactorily than does beef-raising. The man on a hundred-acre farm devoted to beefproduction alone, can seldom afford to keep
helper the year round, while dairymen not infrequently require two helpers on a similar area.
The man not afraid of work The man not afraid of work soon learns, too, that, whereas beef may pay him good market
prices for his grain and roughness, dairying wilt pay him nearly double those figures, thus much more than enabling him to pay for the extra
labor involved. Both lines of farming require more study than does mere grain farming, but the lines of mental activity are rather different. The dairyman must
pay very particular attention to his breeding and
feed feeding operations, as well as to the care and duced, of good quality, sells itself, prices, generally speaking, being beyond his control. The beef
man, however, must be of a keen business turn man, however, must be of a keen business turn of
mind, a good buyer and a good seller, if he is to succeed. He must buy not only the right goods


Ida or Dalmeny 3rd
Two-year-old Aberdeen-Angus heifer. Champion of the breed, Smithtield, 1906, and
reserve for grand championship for best beast in the show. Fixhibited its quality. looks of a good
scope. The keenest business ability has plenty of opportunity. Skill in breeding, science in busing, humanity and mentality in training, and these scarce sum good horseman. And at present, with market buoyant for every grade of his product, it would seem impossible for the horse-breeder to sto short of making lots of money, while at the sam calling. Finaily, for business a aording wonderfu opportunity of making money, or losing it, commend me to horse-raising.
A class of stock which has been, if anything Aeclining in popularity, but a class that is certainly profitable and pleasant to handle, is th sheep. For attention required and for food con-
sumed when returns from wool and flesh are consumed, when returns from wool and flesh are considered, sheep should enjoy a much greater meas
ure of popularity than has hitherto been theirs In addition, where land is rough and forage scarce, no other class of stock can compare with the sheep for profitably using up all the grass or
feed that may be grown, no matter how inferior
for the slothful one might say: Grain-farming dustrious and progressive, bacon-production in smaller or larger scale as an adjunct of the latter or some other line of live stock; horses for the
capable man not afraid of a risk, and a risk where you don't always win, either sheep for the little help and much land ; and beef for who has joys in a little bit of labor, as well as loves the

Lump Jaw in Cattle (Actinomycosis), tively common in cattle, if we are to judge from the reports from farmers, although it may reasonnot due to injuri many of the so-called cases are not genuine cases. Figures as to the prevalence genuine cases. Figures as to the prevalence
the disease in Canada are not available, although in Friedthe statement is made that "Cantive high percent-
age of two, and the age of two, and the
remainder of North America one-fifth of one per cent.(02)." The latter figure more nearly opine, be more nearly correct
for Canada than the former. The
disease been found quit pean abattoirs pigs.
inompy jaw (ac anomycosis) is not ease. Experiments have been made lime and again to transmit the dis-
ease by inoculation mal, but without success. It is not
scheduled as a con-
tagious din an tagious disease by the Health of Ani
mals Branch at
must be seling at a profit. His selling, too, The ray fungus (actinomyces), the true cause short, the beef man must be the right time. In and sometimes a bit of a breeder as well. The and a bit of a business man as well. usiness attaches itself quite closely. Here every
side of the farmer's ind 'roducing bacon pigs profitably in consideray numbers the year round means much considerable Work, and good business management. It is
seldom that pigs alone on a farnı can be made to pay, since their food must consist very largely of concentrates, and there would necessarily be con-
siderable amounts of rough feed go to waste or siderable amounts of rough feed go to waste or
be only partly utilized. Carried on along with
dairving dairying, or with any other line of stock farming,
it is practically certain to make that line more profitable than it would otherwise be.
Fven the man who does a bit of horse-breed-
ing and titting would ing and the man who does a bit of horse-breed-
hindled them riguld find pigs profitable if he ness. But the horse-breeder to-day seems to
have things so much his own way that pigs and cattle worry himuch his own way that pigs and
tunity For interest and opporcattic worry him not. For interest and oppor-
tunity for intelligent work, the horseman's to surnats most other live-stock lines. In this
busin'ss a man's every faculty has this fullest the disease, vegetates on plants, and especially which barley is a well-known member. This fungus has been found between the fibers of pieces the awns of cereals which were in the to and on cattle. It is supposed that infection occurs by the mouth from cattle partaking of food material carrving the fungus, which obtain entrance
through wounds in the delicate membrane through wounds in the delicate membrane (buccal)
lining the mouth cavity. Any stand how readily the mouth membrane might be
torn by a barley awn torn by a barley awn, and the disease thus gain
entrance, especially when it is entrance, especially when it is remembered how
difficult it is to get rid of an awn from the mouth
once it is there quoted, is there. One authority, frequently quoted, is of the opinion that this fungus develops
exclusively on the grain, and partion awns of barley. Certain it is particularly on the appears to he far more common the disease
straw is barley rare amongst cattle bred and that the disease is
The discase in some on the ranges The disease in some countries is termed " wooden tongue," due to the infection of that member The hardening of the organ that results.
Thember
cater as as seen in Canadat The disease, as seen in Canada, is usually lo-
mation results，with swelling，which may be quit hard or spongy，in others soft，the latter due to
breaking down into matter（pus）of a yellowis color and creamy consistency，but which，whe the chalky pus is rubbed between the fingers
ives a gritty feeling．Occasionally this diseas． is seen in the throat（more correctly，the pharyn back of the tongue），several cases being seen in breathing and the suspicion that such were af fected with tuberculosis；they may have been
but not having tested them with tuberculin give the benefit of the doubt，and are of the opinion that actinomycosis was the cause of the fact that 75 per cent．of the cases yielded to the
specific treatment for this disease．Occasionally ther parts of the body are affected－the skin tongue is the part affected，there is difficulty th taking food and excessive salivation（slobbering） death．Such can only both beiore and after scopical examination of the contents of an
abscess．
Treatment may be given both surgical and
medicinal，the former only being practicable in the early stages，and where the parts are well exposed．When properly performed，it is quite cerned Fortunately，the veterinary profession
has in iodide of potassium practicall which，when failure does occur，is due to the dose being too small and not continued，or to the
disease being too far advanced．Two weeks is disease being too far advanced．Two weeks is
the usual period set for a cure from administra－ tion of the drug，in which time a pound may have
been used．It is advisable to stant with dram twice daily，increasing gradually until twice that quantity is given per diem，or until the ani－
mal begins to water at the eyes and the doses should be lessened or discontinued for a few days．
Effect on the Meat．－As to the effects for a disease upon the consumption of meat，no authen－ animal to man．In cases where the disease does pose that infection may have occurred to sup－ erally being of infected straws．The disease gen－ comparatively easy．The meat of cattle infected
may，unless the disease in morn may，unless the disease is general－a rare condi－ tion－and affecting the general health of the ani－ parts are removed．The meat inspectors at U．S stock－vards tag all lumpy jaws，which are yarded and post－mortem on a certain day of the week the post－mortem inspections made．In all cases slashed with a knife so as to render such being marketable，and the head is then sent to the ferti－
lizer tank．If the disease is general，the entire
carcass sho

Management of Sow and Litter<br>\section*{Lovejoy，of Illinois，a well known and success ail swine－breeder：}<br>The care and feed of the pig from birth $t$ maturity，is one of the important elements $t$ be looked after be looked after．By good feeding I do not mean

that a pig should be stuffed with every ounce of
concentrated that he should be fed liberally，and into him，bu intervals，such feed as will cause him at regular
rapidly－feed that is composed material，that you may grow both bone－making flesh at the same time．This both frame and
given at least twice daily，that should be into a well－rounded，symmetrical，evenly－balance animal，properly representing in a high degree the should begin bigs in the best possible manner，the youngster was farrowed the unborn pig so well that he would，at birth The able to overcome all the various troubles that prepare the youngster for a good start in life，
I would feed his dam during the period of gesta－
tion a ration well balanced or containing siderable protein，or bone and muscle making ma－
terial．This may be found managed farm，and may be composed of of different
grains and grasses，with the found on the farm，such as skimmed milk．more had，we have made a satisfactory ration of vari－ ous grains ground together，such as shelled corn and oats，or barley and oats，or yet rye and oats， tity of middlings，or what is sometimes called shipstuff．If no milk is to be had，I should sub－ stitute about five to ten per cent．of Swift＇s
digester tankage，which is 60 per cent．protein or
hone－making material．This added to one－making material．This，added to the above
nixture，will not only grow both frame and flesh nt will keep the digestive organs in the best pos－
ible condition

## THE FARMER＇S ADVOCATE．

grass to be had，I should also add to the mix－ growth，well－cured clover，or，better stili，alfalf and if neither of these were at hand，I should use the pigs and brood sows will sot at and relish Sugar beets are also good，but not generally grown among Western farmers．These latter articles，added to the feed，give the necessary the place of the grass he gets in summer to tak fed in the above manner will，if given plenty sow exercise，bring a strong，vigorous，active litter that will be ready to scrap for their dinner in
less than ten minutes after birth．A litter well
born is half raised


Shearling South down Wether
Grand champion fat sheep over all breeds，grades and
crosses，International Show，Chicago，1906．Bred hibited by Sir Geo．Drummond，Huntly－

When the sows are bred，I believe it pays to keep a record of when they were bred，so as to
know exactly when the sow will farrow and prepared to take care of the litter．Some days placed by herself in a warm，dry place where she will not be molested，and fed the same ration she has been accustomed to，as a change in her feed Let her ration be the same as she has been hav ing，and when she farrows let her alone until she water out，and then give her only a drink of other drink，and add a very little give her an－ careful that she is brought to a full feed gradual－ ly，that she may not produce too great a flow of milk before the pigs can take it．This is cer－ tainly the most critieal time in the life of the
young litter，as a little too much milk from the sow at first is almost sure to cause what is known as white scours，which，if not checked at ger，by starting the milk flow too soon，of caus－
ing the sow to become feverish and her


Sir Geo．Drummond＇s Pen of Southdown Lambs．
Winners of the cup over all breeds，grades or crosses，Ontario Winter Fair，Guelph，
1906．The Bell Cup has been won three years in succession hy Huntlywoel
flock，and wow stays there for goocd．
and hot；sorentss will result，so the sow will not let her litter suckle－all of which tends either not grow as they shourd． from a week to ten days，the sow may be fed all she will eat of a good ration，but under no con－ sideration make any change in her feed，or bad
results will follow．When results will follow．When the litter is about
three weeks old they will show an inclination three weeks old they will show an inclination to
eat a little．At this time they should be given some of the same feed the sow is getting，and，if to be had，a little milk may，be added．This side
table should be placed where the mothe get to it，and the pigs given only a very little
left in their trough to sour．One of the firs grains little pigs will eat is cracked shelled corn they will soon clean it up．The trough that is prepared for the young litter should be extremely shallow，so that they may eat without having to get into it．A deep trough is very bad，as pigs be injured in getting in and out．
Started gradually in this manner，and any changes in the feed that have to be made are very gradual，the litter may be grown rapidly．When by removing the sow from the yard or lot wher she and her litter have been，and the pigs where
hardly know when they are will hardly know when they are weaned．If one
wishes to wean at an earlier age，it may be done
but if the sow is a gradually，by removing her for a part of the day at first，then，after a day or two she may be kept away for a whole day，and after a little afl the
time，till there is no danger of a caked udder and spoiled teats．
After weaning the pigs，they should be pushed along as fast as possible，by giving them good
feed and a grass lot to graze in．If one has feed and a grass lot to graze in．If one has but if not，an addition of the 5 to 10 per cent tankage will grow them about as well，and make just as large a pig for the age as if fed milk，and Many a feeder makes a great mistake in making his pigs take too thin slop，and they have to ake too much to get the nourishment they need． As the pigs grow older，a ilttle corn may be
gin fact，a variety of feed is always best at this age，but all changes must be made carefully，so as not to upset their system or check
their thrift．Pigs properly fed and well bred should easily weigh 100 pounds at three months．
This is the cheapest 100 pounds you will make；it will not cost to exceed 1 to will ever to $2 \frac{1}{2}$ cents a pound．These pigs should，at six months of age，weigh Trom 200 to 225 pounds world at eight ready to top any market in the pounds or more Honths，and at a weight of 250 may ship or sell his crop of pigs before one way in the neighborhood is ready，and in this every one is ready and the early market．When finds the market declining．It is this kind pis that top all the markets and are kind in wiltshire＂band are sold abroad as the＂Best

## A Reply to Mr．Campbell．

## Will you permit me space in your paper

 written by Mr．I have just read in your columns of Sheep Imports．＂I think，headed，Qualit the most misleading I ever saw，because I believe that the importation of rams of 1906 was，as years． with rams from July till the Internation deluged We have about six hundred Shropshire breeders in Ontario－perhaps more－and I do not believe I am far out when I estimate the number of im if all the other Shrir， if all the other Shrop－shire breeders did the same as the writer of that letter，we would this year have required rams，because he ad－ vertises lambs from three imported rams．I be of rams imported by Canadian importers was about one hundred，and
there were five or six there were five or six
importers．The number of imported rams sold go to the Unitedber to is probably a States seventy－five． So bo w $^{\text {a }}$ it will be seen that the Shrop－ tario breeders of on－ Campbell doing as Mr． as he does．The Ontarionpbell says，and Mot ing up with the times．If some of not keep－ bought some of the imperted I have seen，and about one－half their value at Chicago，they sold for improve their flocks a great deal．We all raise rams that do not suit us－Mr．Campbell admits
it－and the poorer am sorry to confess，after travelling and I that the largest percentage of the ravelling about， I will just the low－class，$\$ 15$ sort．rams in oonsider most unfair ；that is the letter which I than twicembs and shearling rams that Canadian－ than twice as much as the imported ones，moce
were sold before the sale started, and likely old customers; and then, there was only three
or four of his top-notchers, both of lambs and shearlings, and fitted as well as he could fit them. hat is the point in the letter where he blows ject he had in writing the letter. I consider it a
poor policy to try to make capital out of the nisfortune of others. My advice to Ontario beil does-buy the best imported rams you can get bell does-buy th
Brant Co., Ont
uoish Ears Stay Up Against Argentine Catile. Some months past reference appeared in these Argentine Meat co., in conjunction with a power fishment of extensive abattoirs on the Island of Alderney, in the English Charnel. Blocking the scheme was the Foreign Animals Order of 1903 which prohibits the landing in Great Britain o
slaughter animals from the Argentine Republic This Order the promoters sought to have waived so far as Alderney was concerned, but the ulti mate effects of such partial removal of the re strictions were emphasized by those whose inter
ests were threatened. Foot-and-mouth disease i rampant in the Argentine, and it is believed to be impossible to exterminate it. Not only was
there strong protest from the purebred stockmen there strong protest from the purebred stockmen
of the mainland, but the dairy breeders of the of the mainland, but the dairy breeders of the tion to an enterprise which might introduce dis ease into their midst. For these reasons, the de cision of the Board. of Agriculture not to grant the requested privilege is recei

## THE FARM.

## A Good Stome Basement Stable.

From time to time there has been appearing in these columns letters, with but one or two ex-
ceptions, denouncing the stone-basement stables as being damp, unsanitary, etc. seemed to me that what each one wrote, but it was the size of the to have seen in each letter of the wall, the number and size of windows and Ioors, and the kind of floor. of the stone-basement stables. Our barn favor by 70 feet. The wall is about 20 inches thick built of limestone rock, no stone going right through the wall. It is plastered on the outside with lime, and on the inside with cement. If I
had to do it over again, however, I would plaster it on the outside also with cement; it is $9 \frac{1}{7}$
feet high. There are 13 windows in it, each 47 feet high. There are 13 windows in it, each 47
by 35 inches, which allows for two by 35 inches, which allows for two sas
slide past the other, with four lights inches in each. I might add, these windows open something that can't be said of many windows I have noticed in other basements. There are three
windows in the south end, four in the east side four in the west side, and two and an opening for silo in north end; two doors four feet wide the south end, one door four feet and one 6 feet
six inches in the east side, and one four feet wide under the driveway in the west side, the driveway being built so that we can drive under it. We on each side of the barn, built in the wall 6 $t$ ween the joists, and these, I might say, are kept open at all times, unless might say, are
wind is blowing and the strong wind is blowing and the thermometer is a of satisfac
iry, and no tion, being always very light and airy, and no seen the walls cover with hoarfrost, but a very cold weather,
them thaws it off at bittle sun That those

## any means.

ver will be a ventilating sustemp there is cattle ; a man must use his
gard to temperature,
Careful to have
windows open
should cattle
tmosphere.
in are built
impossible
hrough them, and so many
get fresh air in unless the of
which is already in
up enough of your valuable space
anada.
Wentworth Co. Ont.

For a Bry Posement.
Editor " The Farmer's Advocat
I think the horse license act is dead and dewill only say that I have not met a horse owner or farmer who favors such an act.
12 As to basements, I have had some experience12 years with a low stone basement pretty well
under ground, with no evil results; since then 10 years in a similar one, with no evil results. At present we have stone basement, and als frame stables for both cows and horses. As t
frosty walls, the more stock, the warmer inside frosty walls, the more stock, the warmer inside
the thicker the wall and the higher it is banked on the outside, the less cold air striking through to cause frost. Strapping and sheeting on the inside, leaving a small space, will remedy the
whole matter. Keeping upper fooors covered with straw or chaff will prevent frosty or damp ceilings and save floors and joists. Hemlock, beech
or maple will rot in a few years if allowed to or maple will rot in a few years if allowed to spell to the next. You never see a ceiling wet or frosty beneath a mow of hay or straw. I am thinking of building a horse and cow barn soon
Here is $m y$ idea: Cement floors, on account Here is my idea: Cement floors, on account o
durability; foumdation, stone or cement, three leat or so above the surface, for the same reason large windows on that, and plenty of them
frame from foundation up, with 8-in space least; sheeted, papered and sided on outside matched sheeting on inside ; ceiling or upper floor matched, with good-sized hay loft above.
FARMER WHO CAN SAW A BOARD.

## Finishing Cement Floors

## Editor .. The Farmers Adroct

Having had considerable experience in laying few hints thatments, etc., I venture to offer of disappointments such as an amateur like myself may find.
The article by Mr. Geo. W. Elliott is well written, and one following his instructions caremight fail in one particular point, such as has been my experience. He says the upper coat
should follow on lower coat within a couple hours, else the upper part is liable to shell off in time. I have had just such an experience, so within two minutes, if possible. This can be managed by mixing the two lots simultaneously or the lower coat, a little on the moist side he upper coat a little on the dry. Then tramp inish in the usual way, and otherwise work and together in this way, we do not require to be so careful in sifting or selecting the finer gravel for the finishing coat, and we are absolutely sure of a
In regard to gravel, the coarser the better uness stones are more than 3 in.; but some gravel
requires treatment before being used. Where necessary, fine sharp sand should be mixed where the stones, so the finished fill openings between
solid, compact mass shall form a solid, compact mass. $\quad$ G. A. ANNETT.

The Want-book.
a Every well-regulated farmer's household has of every want as it arises. Were human memorrecord of things nould be no need for such a
have a way of forgetting it as too many of us vide for what we need by having our memories The "want" book is an aid to foresight away your binder or your in hay hurry then you lork laid lifter. You were then periectly well aware rack-
some repairs were needed, or that certain some repairs were needed, or that certain im-
proverents ought to be made. By this time,
however, vou may have though the winter is passing. If you had been
wise, you would have made an ffect in your "want "book under the heading,
Things to be done." Or. you were not satis-

do everything that he would like to do, no best he can but make a careful selection. And such a selection comes only by hard thinking. It is the small leaks that gink the ship, and it is "want" book will be an aid to system, with which no farm can be a success; it will be sat ing of temper, and it will help iot a little to ad
vancement in everything the farmer vancement in
Wentworth

## Cold Air Not Necessarily Pure.

 ourfresh.
cage, it would were put into an air-tight glass in and convert the ir into the products therepiration, notably carbonic-acid gas. Fimally when the oxygen was all consumed the mouse ould die of asphyxiation. But the inside temperature would soon correspond exactly with the temperature of the outside air. The heat genthe glass by the process called conduction. O he other hand, if the mouse were confined in y (provided it were suge, it would live indefinite the straw cage would allow continual exchange of outside with inside air. Yet straw, being a poore conductor of heat than glass, would be losing less and in all probebility the stra glass cage would the mouse as warm as the glass one, even a kee ing for some lowering of temperature by admiswould keep him warmer airs fact, the straw cage ould keep him warmer, because the mouse, stead of oxygen, would fenerate more body heat than the expiring mouse breathing vitiated air in a The coled glass jar.
case and the other mouse in a straw in the glass an exaggerated analogy between a solid masonry or concrete and a wooden stabie. Have you ever

## Cedar-block Wall for Basement

Being a reader of your valuable paper, I see most suitable for the kind of stables or basements feet of stonework three years ago, with about two cedar blocks, cut eighteen inches long, all sizes mortared in the same as stonework. The blocks wert laid crosswise of the wall, and built up six
feet above the stonemerk feet above the stonework. They can be built
much more cheaply than stone, as there is ing to be done, and will make a very nice-looking the outside. If you desire or kept up even on can give the ends of the blocks a coating of cheap paint. I painted mine with milk paint, made of
new milk mixed with Portland cement to the
consistency new mlk mixed with Portland cement to the It will cover the ends or suriace oi the blocks I consider that I have as dry a basement as can be found anywhere. I have six large win-
dows in the basement. each composed of twelve panes of glass twelve by fourteen inches. twelve
Tize of the basement is sixty by forty-two feet, with a board front on barnyard side. I have no
other ventilators than two traps for putting down
ieed. and I claim that ieed, and I claim that if you can kutp the down
irom striking in, preventing condensing. that no
dampness will gather dampness will gather Keep the tloors well
Covered overhead, and I do not think the ceilings
will gather dampness. basements that I put one under another barn n my other farm last summer the same as the
ne I have described, and I think I can recom-
nend this kind of wail for hasements

A New Light in the Home.

JANJARY 24, 1907
THE FARMER'S ADVOCATE.

Store Ice on Every Farm. quire a word of admonition to put up a supply of quire. It is practically an impossibility for a
ice.
creamery or cheese factory creamery or cheese factory patron to deliver his
goods always in first-class condition unless he goods always in first-class condition unless he has elther ice or cold spring water. Ice saves
work, and enables one to do his duty by the
cheese or butter maker. Ice also saves the housecheese or butter maker. Ice also saves the house-
wife'a great deal of worry and inconvenience wife a great deal of worry and inconvenience, en-
abling her to keep butter, milk, meat, and all kinds of victuals in a fresh, appetizing condition. trinds of victuas her to keep a steak or roast from one
It enables hem the butcher shop or visit from the
trip to the trip to the butcher shop or visit from the
butcher's wagon until the next trip or visit. The waste in many ways, and are such a save source of comfort and satisfaction that it be-
comes a case of "once with ice, never without necessary. Any old shell of a structure is suffinecessary. Any old shell of a structure is suffi-
Rot, and a tyro of a carpenter can put it up.
Some sawdust on the ground serves as a floor. A foot of sawdust around the outside of the ice the top is the real ceiling, though the building should have a gable roof extending well out from
each end at the peak. A screen-protected hole each end at the peak. A screen-protected hole ventilation, preventing the air in the top of the
ice-house from being unduly heated in summer by the sun beating on the roof. Surface drainage is
usually sufficient, though an underdrain may lead to keep the surrounding ground dry. A good plan is to have the ice-house extending
north and south. Five or six feet of the sout end may be occupied by an entry in the center This anteroom keeps the south sun from striking the wall next the ice.
Cut the ice in medium-sized cakes, as near cube-shapes as convenient; with this shape there
is likely to be less waste, for the surface of each chunk is less in proportion to the volume than if the ice is cut in the form of thin flakes. Pack
it solidly in the bin, using chips of ice to fill the interstices. Some like to sprinkle a thin layer o ing together and thus causing trouble in getting ing together and thus causing trouble in getting
it out. Allow 12 to 16 inches of sawdust around
the outside between ice and wall. Pack the sawdust in well, and during the summer tramp it stick to make sure there are no spaces in the
sawdust-packing. For household use merely, a sawdust-packing. For household use merely, a
bin 12 hy 12 by 10 feet high should be ample for
all needs. For cooling milk Mr. W Witchell 13. A., of the Eastern Dairy School, Kingston,
recommends creamery patrons to store two tons While it is well to have clean ice, this is not
very important, for it is seldom one can get clean enough anyway to be fit to be put in
drinking water. The way to cool drinking water $r$ milk is to put the ice in water in a vessel
surrounding the fluid to be cooled.

Wood Walls Not Always Dry.

 that when hoarirost gathered inside the concrete us forcibly in this and a couple of other stables
was the fact that the inside of the large dor was the fact that the inside of the large doors
were saturated almost to the dripping-point with were saturated almost to the dripping-point with
wet, while the walls were quite dry. The doors
were of single pine boards, matched or very closely fitted, and in one instance were lined with tar
paper, which had also been very wet. Among in wooden Manitoba stables, made very close to ness or dampn
wall materiat

## 4

A Good Basement Stable. The accompanying plan of a barn, erected last
summer for John W. Johnson, Middlesex Co., Ont., combines so many commendable features
that we give it for the benefit of those who are contemplating the erection of new barns, or who
have old ones that can be remodelled ar extended have old ones that can be remodelled or extended
accordingly. The basement, which stands clear accordingly. The basement, which stands clear
above the surface of the ground, is light and airy, having an 8 - ft . ceiling, and is a model of comthe design and measurements will show. Being noshaped, it provides for a convenient drive barn
n which to unhitch and store rigs on same level
with horse stable. There are stalls with rigid tanchorse starle. 24 head of cattle (dairy cows) on

- torth side and 11 head on south side, but this pace is simply divided by a gate into two targe
ans in which cattle run loose. There is no
feed-passage floor to bottom of manger. The
floors, etc., are cemented. The space to the south-east is a stack-yard, and the 6 -ft. door
opposite the double horse stall is convenient for working teams going to and coming from the
fields. The stãble proper is lighted with 17 windows, three lights ( $9 \times 10$ inches) in upper sash, which swings on hinges at bottom, and six lights
$(10 \times 12$ inches) in the lower sash The upstairs plan has also the great merit of simplicity. The approach is from the west. 12 being 16 feet wide by 30 feet long, and the other by 40 feet, and to the north is the granary, 30 feet for hay or grain. The east wing, 40 by 50 opposite the end of the barn floors, is very handy for straw storage at threshing time, or for hay.
The walls are of large. hollow brick. The cows and other stock go out to water. Mr Johnson finds his stable not only convenient, but comfort-
able and dry.


John W. Johnson's Stable Plan.
Robt. A. Eair, Builder.
were purchased. Of the
above number, so m e 69,000 had to be secured in the United Some
States,
as the Canadian supply ran short, and on these a as the Canadian supply ran short, and on these a
duty of 25 per cent. had to be paid, but prices duty of 25 . per cent. had to be paid, but prices
were still below Canadian makers'. The saving on all of above baskets by purchasing wholesale was over $\$ 900$
The coming season the Company propose to
extend their building, and purchase and pack extend their building, and purchase and pack
fruit from growers who are not prepared to pack their own. This extension is necessitated owing to the fact that their Western customers could
not be given all the tomatoes, pears and peaches not be given all the tomatoes, pears and peaches
ordered, especially for fruit wrapped and packed ordered, especialy poxes. A pleasing feature of the season's
in buseres
business is the universally-expressed statements business is the universally-expressed statements
from the four places in the West where fruit was from the four places in the West where fruit was
sold, "that all packages bearing the brand of the Company turned out well." The call for "Prairie Brand"" next season has already commenced, as two buyers have visited the Company
and made arrangements for next season's supply. and made arrangements for next season's supply. A supper was given to all of the shippers by the
president and vice-president at the close of the season.
Arra
Arrangements are now being made for supply
of spraying material for spring work and of spraying material for spring work, and a con-
tract closed for next season's baskets. Confidence in the fruit business is shown in the preparations for large plantings and orders given to nursery firms for peach, pear and cherry trees,

## Horticultural Progress.

Prepared for "' The Farmer's Advocate " by Prof. W. Farm, Oltawa. ", Plant Breeding in Relation or Amaican Pomol Bulletin 132, by W. M. Munson. This bulletin in not a record of experiments conducted at the Maine Experio
ment Station,., but is a summary of the principal ment Station, but is a summary of the principal facts
in the history of the improvement of fruits by breeding, and is evidently intended mainly as a guide to
students. students. It should, however, prove usefur to fruit-
growers generally, as it gives in growers generally, as it gives in a few pages informa-
tion which could only be obtained otherwise by reading several books. The first two great leaders in the breeding of fruits were Jean Baptiste, Van Mons and
Thomas Andrew Kight. the Thomas Andrew Knight; the former born in Brussels, Belgium, in 1765, and the latter in England in 1759
Though contemporaries, they standpoints. Van Mons believed that the best way to improve fruits was by selection from young bearing
trees. He would begin his work with a young tree trees. He would begin his work with a young tree of
a promising type, sowing the seeds from it and rasing a promising type, sowing the seeds from it and raising
trees, from which he would again obtain seeds as soon as they began to fruit, and so on from seneration to generation.
provement in He believed that there was a limit to im provement in varieties obtained by this a method, and
that when this was reached future seedi
strain would be of poorer quality, and to obtain other perimental Farm, Ottawa, for experimental pur-
good sorts it would good sorts would be necessury to start from another poses. In all, I sold 97 cockerels. This left mi variety not so good, but capable of improvement with 80 to fatten. These I crated on the 15 th
through its seedlings, through its seedings.
Knight believed that, in addition to 'selection, in- of November, and fattened for four weeks. When troduction of new blood by cross fertilization was they were ready for market, the largest weighed necessary. Van Mons, in his fifty ears' work, proved They all brought 15 cents a pound. About the the importance of selection, and originated many fine 1 st of September I started to kill off my chickens
varieties, but failed to show that his was a better varieties, but failed to show that his was a better
method of improving plants than by cross breeding and selection. In the fifth generation, by selection, Van Mons was able to get pears to fruit three years from
the seed, but this early fruiting was the seed, but this early fruiting was obtained at the
expense of vigor, causing a weakening of the constitution. Some of Vau Mons' seedling pears are among the best even at the present day, exaunples being the
Diel and Bosc. Diel and Bosc. Van Mons' work was confined mainly
to pears, but Knight took in hand the improvement most of the hardier fruits, and also vegetables. The information he gave to tine world from the results of his work in the breeding of fruits ty crossing has been
of great value to more recent workers Examples are given in this bulletin of varieties of fruit which have been originated in America by selection and by cross-breeding. Some interesting chapters in
this bulletin are "The timits fluence of Soil," "The Uise of Unripe Seed,", "Breeding from Asexual Parts." In connection with the last-
mentioned subject is discussed the question of individuality in fruits, the author believigeg that productive
strains of varicties may be devel strains of varieties may be developed by propagating
from individual trees or bushes which are more productive or better colored fruit than others. This line of work is being investigated at Ottawa, where trees of productive than others of the same age. Young trees as well as top grafts, are now growing from the poor, est and best-yielding trees, and definite information as to permanence of this apparent individuality will soon
be obtained. This bulletin also be obtained. This bulletin also contains chapters on
the improvement of the strawberry, grape, pear., apple. the improvement of the strawberry, grape, pear, apple,
plum and blackberry in America, with lists of representative varieties
The writer, in conclusion, draws attention to the many unsolved problems in plant-breeding, which can
only be solved by the classification of the present
knowledge of the subject and by scientific research.

Mushrooms that I use for canning
ir on the Sackville marsh canning grow in the open or preparation whate
tiful, and some years plentiful we get years very scarce, but if they are far better and stronger mushroom flavor than any ooked mush
hem in mind

## POULTRY.

## Successful Poultry-raising in 1906.

24th, the chickens hatching out aloout on Murch of April. The second hatching came off alout th
6 th of May, and a third about the 28 th of Mat When I started the incubator, I set some hens so
as to have their chickens hatching out at the ame time as those from the incubator. Whe the latter hatch out. I give the chickens to the take all the chickens, so I put the rest of the
chickens in a brooder until other hens hatched the heir chickens, and gave them had hatched them themselyes. In . In this was the
raised about four hundred chickens raised about four hundred chickens.
On the 21 st of June I $I$ shipped the cockerel): hatched in April to a produce company in To
ronto. They weighed from $2 \frac{1}{2}$ to 3 pounds cach and hrought 19 cents a pound live wright. Th.
cockerels out of the second hatching 1 sent awas and brought 16 cents a pound, live weipht pound


Wandsworth Princess
that were not fattened, for private customers. These also brought 15 cents a pound. Ontario, and got a very satisfactory price for them. I have kept 47 of the early pullets for Winter layers. These are all laying now, some
of them starting to lay as early as. have a pen of one-year-old hens that are not laying now ; they will not lay until March. These are the eggs I will use for hatching. I do not lind eggs satisfactory for hatching from hens that
have laid all winter. I never keer have laid all winter. I never keep a hem over
two veld. In December 1 got $i 7$ dozen eggs from imy
hens. of these hens. Of these I sent 71 d
ceiving 50 cents per dozen.
For many years I raised Barred Plymouth Rock fowl, and found them most satisiactory
Being advised to try the Bufi Orpingtons setting of eggs, and found them so successiul that I continued raising them, also. I find that the Buff Orpingtons make good mothers, and, in rais-
ing fowl, this is an important item to sidered, (MAS.) M.ARG.MRET Y'ILL.


Sidney A. Denyes writes us: "Ry wetting the inderior of my henhouse and roosts with water and applykill the bigh red lice that sit on the roosts and not the hens at night. I used coal oil on them, but it THE FARM BULLETIN Watch for the Index.

Iowa Farmers at School.
not decreasing in popularity. In the two weeks' of stock and seed judging there have been in attendance nearly two hundred and fifty students, winle
the special classes in poultry and dairying were crowie almost to the limit.
The number in attendance at these two latter cour is necessarily limited, in order that the instructors Trofessors Graham and Dean-may be enabled to ture of the courses this year was the large number
younger men present, as compared with younger men present, as compared with the greater
number of older men present in former number of older men present in former years. Prac
tically all were new men, who had never on previous arousiad occasions taken the course, and the interest tuate their efforts for no doubt, stimulate and accenamone aim of those in charge was to give a maximun amount of information in a minimum space of time,
and in order to do this it was necessary to crowdithe,
work considernby work considerably. From 8.30 to 10.00 each mornthg
was spent in seed judging. under the direction of Was spent in seed judging, under the direction of Prof. tinent, , and his assistants, Messrs. Buchanan, Bell and
Squirall Squirell: Some one of the staple farm crops was dis. cussed each morning, their valuable properties empha-
sized, and several samples distrilutcel sized, and several samples distributed for practical
work in judging. The classes for the judging of live stock were held
in livestock pavilion, and, as a rule, commenced immediately the class arrived trom seed judging, which
was held in the new merhanical building. In order Was held in the new mechanical building. In order to
make the course a success. Professors (;. F. Day and there was insufficient, both of College stock, of which
equip all classes wns surn and variety to equip all classes, was supplemented from the flocks and
herds of well-known lireeders : J. (i. Hanmer R ford, Ont.: H. Arkell, Arkell) Telfer Bros., Paris, Ont., and Mr. Laird, of Guclph, were present with fairly
strong representations of Shropshives. Oxfords, Southdowns and Cotswolds. respectively, while South-
Brethour, of Burford, And Mr. Moodic. Of Guelph, a Fided
with Yorkshires and Berkshires in the cwie, Col. I). McCrace. of ciumph, hard some of his hest Gallo-
ways prenesnt, in order to wive the men a chince to see
this breed of Guceph. Who for many years have assisted by A. Atchison, both
 and Tovell. The classes were most of the time in
charge of Prof. Way und Dr. Reed. assisted ty mburumer


## 

 you imay, simply hy saving all your copies of the onvenient agricultural reference library. This will sible in every way for our subscribers. The index
## A H. Jacobs' Shorthern Sale.



Bell of Balham XVI

Short Courses at O. A.C.
$\qquad$
Who have been attending the short courses at
A. C, Cuelph, Ont., indicates that the course
not decreasing in popularity. In the two weekg

well when dry, and keep cow records, to enable him
to weed out the poor producers. Prof. Dean laid heavy stress on the importance of
feeding cows well when dry. The usefulness of an feeding cows well when dry. The usefulness of an
animal depends: 1st, on the sire and his breeding animal depends: 1st, on the sire and his breeding:
2nd, on the dam and her breeding; 3rd, on how the 2nd, on the dam and her breeding; 3rd, on how the
calf has been nourished while being carried by its dam One delegate, Mr. Gleason, doubted the necessity o
mdividual records. He thought if we managed our individual rocords. He thought if we managed our records. He wondered whether a man milking a cow himself would not know how much milk she gave. The reply was that while he might have a fair idea, it
would not be accurate. Some cows' milk foams much would not be accu
more than others.
One man desired to know whether Prof. Dean had implied that all the dairy breeds were equally good. He kept Holsteins himself, but offered to
Professor would tell him something better
Prof. Dean. replying, said that was the greatest compliment any man had ever paid his judgment. had not said that all breeds were equal, but had
avoided controversial ground. However, since the avoided controversial, ground. However, since the
point had been raised; he would say that, in his 16 years' experience at the College, during which time he
had kept five breeds most of the time, and three all had kept five breeds most of the time, and three all
the time, he had found the greatest number of profitthe time, he had found the greatest number of profit-
able cows among the Holsteins. He ascribed this to the fact that 25 years ago the Holstein breeders began testing their cows, and started an Advanced Register.
The other breeders have paid too much attention to fancy points. such as certain curve of the horns, and slim tails. Do we keep cows, the speaker naively asked, to grow slim tails ? The other breeders are now going in for reconds also, especially the Canadian
Ayrshire men. Breeders who do not do so will soon Ayrshire men. Breeders who do not do so will soon
find dififculty in selling their bulls. The farmers of this country are prepared to pay long prices for good bulls from cows that have been tested, but they not willing to pay money for paper pedigrees. 25.32 pounds of milk, testing $3.5 \%$ fat ; in 7 days she gave-643 pounds, and in one day 96 pounds. In
November and December, 61 days, her yield was nearly 5,000 pounds.
bull is not sufficient bunl. The old law, that like produces like, applies which has producing ancestors for we want stock Only about one heifer out of five proves really gaod because most that are bred haven't the breeding back of them. Only about half of an animal's characteristics, on an average, are determined by its two
parents. The previous ancestors have equal influence. parents. The previous ancestors have equal influence.
Prof. Dean would like to see a breeding station established somewhere, to work out some of these ques-
tions involved in the breeding of dairy cattle. It needs at least ten years of careful study.

Wednesday evening was burdened with the usual formality of addresses of welcome from the Mayor and
the President of the Board of Trade. Usually these consist of the most insipid platitudes. This time both
were disappointing. Mayor Judd was humorous and were disappointing. Mayor Judd was humorous and
brief, while President White departed irom a precedent by actually saying something worth publishing. He
made a strong plea for all prosent to do everything in their power to intercept the Westward migration. OnOur environment is better every way than that in the Our environment is better every way than that in the
West, but our young men are being lured thither by roseate advertising, and by the fact that many who
go there do well financially. We have superior advantages to offer them in other ways, and must address
ourselves to the task of presenting these. We must keep more young men on Ontario farms.
One thing that has been an injury to us is the cursed system of credit. Our farmers, yielding to the
blandishments of agents, are buying too much machinery on credit (this from an implement manufacturer), and
not taking care of it when they eet it. If we could not taking care of it when they get it. If we could
get down to a cash basis it would be a great saving. Credit price is always $10 \%$ higher than cash price. It is time to teach the principles of finance in the schools.
There is more money for a farmer making figures than furrows. In conclusion, he said, don't forget Ontario don't forget to boom Western Ontario, and don't forget
London. the dairy exhibition ide committee that had been appointed to confer with similar conmittee from the Eastern Association, on the
holding of a National Dairy Show. holding of a National Dairy Show. The joint con
mittee met at Toronto Fxhibition, and decided to cal vass parties whose co-operation would be necessary make the show a success. They reported finding the manufacturers of dairy machinery enthusiastic and and-
ious to break away from the Ontario Winter Fair at Guelph, where the fat-stock interest is predominant.
Breeders of dairy stock were nlso interested Breeders of dairy stock were also interested. As to
location, Toronto seemed indifferent, but Guelph and Peterboro' promised to do all in their power, the
former city offering the use of the Winter Fair building, Pormer city offering the use of the Winter Fair building,
and Peterboro' expressing her willingness to erect new buildings.
Reference was made to the established dairy shows
in England, New Zealand and in England, New Zealand and U'nited. States. The speaker pointed out that the dairymen's conventions
are going over much the same ground year after year,
till their tale has become prosy, and it was thouchit are going over much the same ground year after yrar,
till their tale has become prosy, and it was thought
that a great dairy exhibition might help to aroush that a great dairy exhibition might help to arous,

## report.] Mr. H. B. Cowan, the second speaker, thought muoh

 Mr. H. B. Cowan, the second speaker, thought muohgood would result from getting the east and west together, and bringing the dairy stockmen in. This is
the age for specialization, he said. Cheesemakers and the age for specialization, he said. Cheesemakers and
buttermakers need to be organized, and a national buttermakers need to be organized, and a national
dairy show would be an aid in this direction. Some Lairy show would be an aid in this direction. Some
little discussion ensued on certain incidental changes that might result. Chief Instructor Barr would not favor a movement looking to the abolition of the presof Eastern and Western Associations, and the system
of instruction as now constituted. He thought much interest could be aroused and great good accomplished with our present organization, by holding more district meetings throughout the Province, and offering a dairy-
herd prize for each district. Prof. Dean could see no herd prize for each district. Prof. Dean could see no
need for two dairymen's associations in Ontario holdneed for two dairymen's associations in ontario hat gramme were always duplicated. By resolution, the report of the committee favoring the
national dairy show was finally adopted.

SANITARY INSPECTOR'S REPORT.
Dillon, Sanitary Inspector for Western tario, reviewed his past season's work inspecting fac-
tories and farms. A good deal of his time had been tories and farms. A good deal of his time had been
spent in factories where the conditions were first-class. He thought much time could be savod if instructors ment of Agriculture where a sanitary inspector was needed. Neo. Neely, M.P.P., followed Mr. Dillon He hed
Gea Geo. Neely, M.P.P., followed Mr. Dillon. He had a
word to say in favor of dairy-corv records, instancing the development of the American trotter as an instandard of performance as a guide in breeding. Relerring to the proposition advanced to make the cheese
factory and creamery instructors sanitary inspactors as factory and creamery instructors sanitary inspectars as
well, he foared if that were done their value as instructors would be about at an end. He warned against the tendency of the maker to get
the farmer. Rather go to him instead.
 room agitations that have been springing up in certain quarters of late, asking for all sorts of radical and
regulative legislation relating to the dairy industry.
The impression left on his hearers was that if few
$\qquad$ the making of all the instructors manitary inspectors. which, as Minister of Agriculture, he had received from ernment is simply the servant of the people, to spend
money in the most judicious way for the betterment million a year, of which the dairy industry nearly half a fairly respectable proportion abdout $\$ 59$ receiving year. Fivery item of this expenditure has to be justi. him when the proposition for a dairy show was bein viscussed, and the claims of the dairy industry ad
vanced, that the evidence had been all on the one side. a large attendance and do much good, but the Minister a math who travels a that the ontario farmer is no
winter exhibition be deal. if he comes to on winter exhibition he is doing well. For this reason i
would be better to have our horse, fatstock, dairy
stuck iry

too many shows.
Let us endeavor by other means to stir up
dairymen east and west. If the mountain won't con dairymen east and west. If the mountain won't con hard exertion is necessary, but farmers are thinking in never before. They are weeding out poor cows a looking after every end of their business, and stean progress is being made.
exploited he noted some numerous other ideas being exploited, he noted some of the results of the appoint
ment last spring of two sanitary inspectors. One was that factory owners who have been obliged to go t.,
some expense to carry out the recommendations of the some expense to carry out that they should be protected by some means that will prevent the erection of competing factories that will cut into their business. There is also a movement for licensing the factories, and even
licensing the makers. All these things would doubtless lead to wonderful possibilities. In fact, he was not sure just where it would all lead to, but it would to the majority of mankind. We have not yet accomplished all we desire by our sanitary inspection, but the system may be worth trying a little longer before we suggest a change. He had always found dairymen reasonable, and believed they would be reasonable in
this. The ceived was evidence that he had not misjudged the meeting. THE INSTRUCTOR'S REPORT. The report of Chief Instructor Barr was a model of
brevity. The season, he said, was characterized by good prices. The instructors worked hard and to
good purpose. At no time did the makers get of good purpose. At no time did the makers get off the
track. There were scarcely any acidy cheese madethe first year since he has had charge of the work that such was the case. There were few cheese rejected,
and, taking the weather into consideration it to say the makers have done better work than the year before. The fall cheese were fine. He believed
it had been a good thing that the cheese had been taken from the factories promptly, though he admitted
that some had been shipped altogether too green. With that some had been shipped altogether too green. With
proper curing-rooms there would be less tendency to During the season the instructors visited 161 fac-
tories regularly, making 873 day visits and 398 calls making a total of 1,271 , or 366 more than last year.
There were 2,648 curd tests made, 43 , 730 lact There were 2,648 curd tests made, 43,730 lactometer
tests, and 2,594 Babcock tests, being an increase over tests, and 2,594 Babcock tests, being an increase over
last year in each case ; 505 patrons were visited, 85
fewer than last year. From the above it is seen that
the instructors did more testing and less visiting at the farms. They felt rather discouraged over the re-
sults of visiting patrons the year before, as in many
cases their recommendations were not carriod out. If the instructors were made sanitary inspinctors, with
power to enforce their recommendations, more goord
might be done by their visits. annual and special meetings, and 21 were attended thy
ane ather instructors, making 62 in all, at which there
the ot
was a total attendance of over 3 ,ooo. Like Mr. was a total attendance of over 3,000. Like Mr.
Pullow. Mr. Rarr finds that great good results from
these visits at the annual meetings.
In repairs and new factories $\$ 20$ In repairs and new factories, $\$ 28,750$ was spent in
1906. The factory owners are improving as fast a.s
thny can, but some of them are hampered by small
returns, and are failing to make ends meet. The. worst feature at our factories is the whey
tanks. The whey-tank problem is dificult. Mr. Barr
is inclined to recommend that wash water and slush from the floors be run off into a separate tank or
drain. For whey he would have only one underground tank, and that shallow, so it may be drained. Among
patrons the greatest improvement has been in the milk cans used-result, great improvement in the milk. In November and December district meetings were
held in the territory of each group of factories. At
every one of these every one of these a resolution was passed, asking the
Government to make all the factory instructors saniraising of the price of manufucture and the division of
territory among one another, or in lieu of this some
harmonious harmonious understanding remarding the returning of
poor milk. At the district meetings forty-two factorymen agreed that they would make an effort to divide
territory and leave one another's patrons alone. Since
then Mr. Barr has received letters from 13 more factorymen approving this action.
INSTRUCTION IN CREAMERIES, 1906. Western Ontario, three more than in 1905 . Fifty-three
were visited repularly during Were visited regularly during the season, calls wera
made at eight of the others by the instructors. Out of the 74 creameries in operation, only five ca is a small quantity of cream- yathered cream received. be called separator creameries, as the quantity of crea cathered is about as much as that separated at th gatheriny. The balance, fifty-eight, are entirely creamIn 1904 only 34 creameries were using the Batcot tester. In 1906 年 56 were using it. Chief Inst
Barr's opinion is that it would be a good thing for Barr's opinion is that it would be a good thing for
car't do.". He had appealed to the Women's Tnstitute
at Guelph to help
get the under ying prinaiples or
 agriculture taught in the schols.s. In the shool and
the home is hoope for. great improveremet in the raw $\substack{\text { maneterial } \\ \text { toriese }}$
resolutions anoptro
The following resolit
the resolution committeo
the $^{\text {resalution committeo }}$ That it is


 time to the work
Wheras, petitions signed by several hundred chesese ard butter makers have been preserved to this conven
tion, praying tor the establistment of ostandard of

 charge of ofactory unless he has had at least three
yeares experience in a factory, or holds a d tiploma
trom
 this convention it is deeirable that our chese and
botter makers should pe as well
qualified
ss possible





 that in the opinion of this convertion the time has
 creameries, ond we should recominend that steps be
taken to prevent the buildine of auditional factories taten to prevent the build ing of additional factories
until their sites and plans have been submitter to the
 ${ }_{\text {har }}$ ho of some compotent buard appoited by the Gove ment. that the crection of tho proposed factory is in
the best interests of the section where it it is vroposem the best interests of the section where it is proposed
to that
That this convention place on record its acknowl-
 partment of A Ariciture have afforted, and the impetus
which throush thelic which, through their operations, has been fiven
most timportht emoment $\substack{\text { most in in } \\ \text { Chandia } \\ \text { clemesi }}$

genteman's gold watch and 85.00 in cash. "total value aso, and he is survivent hy six soms and one daugh
in butter in Class 3, colored with Alderney butter a man of sterling character and good judginent
color-W. A. Rothwell, Hicison.
Five dollars in cash, to the buttermaker securing esteened by those who knew hime bestimable neighbor and an enterprising citizen
with A!derney butter color-R. A. Thompson, Atwood.
('hemesescoring Contest. Forward work at Fruit Stations.contest, held tin the City Hall Forty-cix menescoringA cheese was taken from the exhibition and the judges'the cheese for flavor, texture, color atid finish. They
wereapproached the judges' score on each particular point.too high or too low, on color he was cut 4 points on
his work; for every point he was high or low on tex-
twrestanding. The hest judging was done by Jos. Cleland,
of Listowel, whose total score tallied very closely withthat of the judges. He was, however, half a point
low on texture and, a third of a point high on color,
and was. therefore, cut 2 points on his work
ton, whose total was the same as Mr. Cleland's. Ruthe was half a point low on flavor, half a point high
on texture, and sixteen-hundredths of a point lowfull 10 points for flavor.
President, John McQuaker, Owen Sound: Vic
sey, Stratford; J. N. Paget, Canboro: Gieo. A. Boypes
rutnam : Samuel Wallace, Burgessville ; W. Waddell,Strathroy. Representatives to the Western Fair-F.
Boyes and I. W. Stelnhoff. Representative to the

Dairy Supply Co., to the cheesemact, hy the Ballantyn
est number of points on Septenther white cheesc-Class

of $4 W$. Hamilto
One case Hansen's remnet extract, hy C. H. Slawson
senfa., to the cheesmaker scoring the hiphest number
of points on
F Sty
Stedelbauer,


2 h 9 fiec.
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cheesen


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mien's


The Late Peter Arkell.
Death of Peter Arkell.


$\qquad$

Forward wors at Frult Stations.
On the 7 th of January an important meeting of
Board of Control was helat at the I'arliament 131
ings, Toronto. There were present the chairman,
$\qquad$ Guelph; P. W. Hodgetts, Secretary of the Ontaric
Fruit-growers' Association; L. Woolverton, Secretar
of the Board of Control: and Messrs A. M Elmer Lick, and W. T. Macoun, Horticuiturist, of th.
Central Experimental Station, Otthwa, representatio.
exercised in the management, and that large returns
for the moderate expenses were gained for the public
for the moderate expenses were gained for the public.
The reports of the experimenters were read and
criticised, and the Secretary ordered to
for publication. Many of them contained matter of
unusual value: for example, Mr. Chas. Young, of
Algoma, gave a list of varieties which are most valu-
Algoma, gave a list of varieties which are most val
able in sections further south. but proved worthless
St Joseph's Isfond
win and Greening: and gave the following list
aties of apples which he had proved valuable
eties of apples which he had proved valuable in h
district, viz. Yellow Transparent, Charlamoff, Whi
and Red Astrachan

" The want of a so-called winter apple," he adds,
"is not so great a want in Mlyouna as it might ay
pear to those in more favored districts, as will appen
when I say that on the 26th duy or
finisheal the that on the $26 t h$ day of March, 1906. .II
tion for dessert. and of Alexanders, in perfect condi
(Iuality than those grown in the touthern sections."
The Secretary was ordured to send some new and
promising fruits to the various stations for testind
especially to certain persons in the Temiskaming id
rict who have applicd for them. promising an annu
report in return.
Mr. . W. Hedgetts reparted having made an ed
rational exhibit at the Industriul
ational exhinit at the Industrial Fxhilition, Toront,
as directed by this hoard, and the Shecretary, a lar,
axhilit of varieties of apples from all the stations il


hes of work in the int, west dif vegetable-growers; and
write Mr. Hillborn, directing experiments in using
rtain varieties of plum stock upon which to bud the
rach, and thus enable it to withstand the severe root
irst in 1899 and then again in 1904. peach orchards, The varieties
if plum stock advised were Myrobalan, St. Julian and
plum stock advised were Myrobalan, St. Julian and
mericana. The Secretary was ordered to arrange for
the propagation of the peach on these stocks, as thi

Senator Beith.


Kohert Beith, of Bpownment to the Senate of Mr.
Bowmanille, Ontario, one of the raft and carriage and horses, an enters of high-class heave which, perhaps.
no one man in the Dominion has done more on sourcd liness and by commendable business methorls the farmers, they will have familiar with the needs of champion, whose judgnent and counsel in the considera-
tion of legislation affecting their interests should prove essentially holpful in the new sphere to which he has
heeen called, and we are sure we voice the sentiment successful career in that in wishing hime a long and
W. Doherty's Sale.
$\qquad$
at Clinton,
ttendance of

## THE FARMER'S ADVOCATE



The Government and the Hog Trade

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|  |  |  |  |  |  |  | not been favored lately with many complaints regard-

ing the quality of the bith maver ing the quality of the bacon hog sompplies, and fif not
up to the mark, why not try the remedy of regular
premium prices for the richt premium prices for the right sort. $\quad$ nd if the Gov
ernment is to be set to work, what atout cested experimental packing-house, to shout some sug-
on the packing end of the businocs might be mutually
marketing problem

## Breed Society Annual Meetings.

Cattle Breeders'
Touse, Toronto; Tuesday Dominion Sheep Breeders' Association-Palmer House, Dominion Swine Breeders' Association-Palmer Hous oronto; Wednesday, February 6th, 9.30 a.m.
Dominion Shorthorn Breeders' Association-Room th floor, Temple Building, corner Richmond and Bay Sts., Toronto; Wednesday, February 6th, 11 a.m.
Canadian Hackney Society $\rightarrow$ Roon otel, Toronto; Wednesday, February 20 , Khing Edward Holstein-Friesian Association of Canada-Iroquois Hotel, Toronto; Wednesday, February 6th, 1 p.m. Edward Hotel, Toronto. Thurday G., King $10.30 \mathrm{a} . \mathrm{m}$.

$$
\begin{aligned}
& \text { Shire Horse Association-Room G, King Edwand } \\
& \text { Hotel, Toronto; Friday, February 22nd, 10.30 }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Hotel, Toronto; Frida, Feruary 22nd, 10.30 A.m. } \\
& \text { The Canatian Aberdeen-Angus Breeders }
\end{aligned}
$$

meeting, at Brandon, Man., February 20th.

$$
\begin{aligned}
& \text { ary 20th. } \\
& \text { chibition. }
\end{aligned}
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\begin{aligned}
& \text { in the St. Lawrence Marketers. Toronto, on February hel the } \\
& \text { 20th to 23rd. }
\end{aligned}
$$

The associations holding annual meetincsi of

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\begin{aligned}
& \text { date associations holding annual meetings at a lat a } \text { and }_{\text {a }}^{\text {mequire to hold directors' meetings earlier }}
\end{aligned}
$$

for the purpose of appointing representatives to the thing

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\begin{aligned}
& \text { exhibition associations. These directors' meetings wil } \\
& \text { probably } \\
& \text { pe held during the the }
\end{aligned}
$$

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\begin{aligned}
& \text { probably be held during the time of the tings wil } \\
& \text { meetings, about the } 5 \text { th or } 6 \text { th of }
\end{aligned}
$$

## Free Corn Still.

during the Tariff Bill debate, rejected t has been for several yars corn off the free list, where ive-stock husbandry, which is the made advantage cessful farming in Ontario, and the ar or suc means of preserving soil fertility. To the economical of farmers who are depending on the the great army
and their products, animals "nd their products, corn and other stock foods are "raw material," just as certain things are to the of "drawbacks." ${ }^{\text {A }}$ season "free," or enjoys the aid olders are exceptionally high, as at poarse grains and ainly not auspicious for high, as at present, was cer-
$\begin{aligned} & \text { Suspicion of favoritism, and their methods of conducting was discussed, and a somewhat different decision } \\ & \text { subsidized sales have been open to the charge of un- reached. It was pointed out that the directors of the } \\ & \text { fair competition with private enterpise }\end{aligned}$
$\begin{aligned} & \text { fair competition with private enterprise. charge of un- reached. It was pointed out that the directors of the } \\ & \text { Treeders of canadie- Ontario association had merely acceded to the request }\end{aligned}$
hreeders of Canada have shown commendable enterprise of the Michigan association to consider the matter, and
$\begin{aligned} & \text { sired type and quality required by stock to the de- that the committee was merely to hear what there was } \\ & \text { thate, as pro- to say and rent }\end{aligned}$
$\begin{aligned} & \text { mulgated by the packers and the press. Inde, as pro- to say and report to the next annual convention of the } \\ & \text { Ind }\end{aligned}$
$\begin{aligned} & \text { practically certain that. in no other country in the } \\ & \text { world has so general a transiormation }\end{aligned}$
$\begin{aligned} & \text { wive stock been effected in so short a time. And class of } \\ & \text { limis } \\ & \text { hes }\end{aligned}$
$\begin{aligned} & \text { has not been dore without great personal expense, ex- } \\ & \text { pense to the breeders who }\end{aligned}$
$\begin{aligned} & \text { fense to the breeders who have never sought adven- } \\ & \text { titious aid from the Government }\end{aligned}$
$\begin{aligned} & \text { titious aid from the Government, and are entitled to } \\ & \text { the fiekd of trade on legitimate lines }\end{aligned}$
the fietd of trade on legitimate lines, where in all con
$\begin{aligned} & \text { The feeling of the meeting was expressed in the fol- } \\ & \text { owing resolution: "That this association wishes to }\end{aligned}$
place itself on record as being in harmony with the
Ontario association in regard to meeting the Michigan
$\begin{aligned} & \text { growers. We, however, feel that this association of } \\ & \text { ruit-growers can hold out no hope of any reciprocity }\end{aligned}$

QUESTIONS AND ANSWERS.
Miscellaneous.
SHIPPING RATES on butter.

RENTS AND PROFTTS OF LAND

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cossip.
Captain Donald Milloy, known to many of our readers as a breeder of Shorthorn farm, Oak Park, near Paris 12 th, at his was one of the oldest of Ontario He havigaturs, and some Ontario lake is attention to farming and steck-rais ing, having purchased Oak Park farm,
formerly the home of the late Ilen. David Christie, consisting of some 600 acres one of the very best farms in the Prov of, intending to take up his residence in Toronto. He was about 70 years old hine brothers, and is survived last of
iner excellent wife, not to dinner for this and me to get a rich have alighis man or this woman, who chamber made ready at too great a cost.
These things, if they are can get for a dollar at any vill in, they let this stranger, if he will, in your But
cent and bean cent and behavior, read your heart and he cannot buy at anyght and will, which or city, and dine sparely and any village
n order to behold. Certainly let the
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For the
Small Investor
No plan of investment offers better COUNT in the BANK SAVINGS AC

NOTE THESE ADVANTAGES
investment add small sums to your dollar added begins to earn more.
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can be withdrawn the sums invested any time.

## BANK OF TORONTO

Head Office, TORONTO, CAN.
Coptta
Rest
8, 4,000,000
MARKETS.

## Toronto.

Receipts of live stock during the
week were large at quality of fart cattle was mot as gats. The
could be desired, too many both butchers could be desired, too many both butchers
and exporters being offered that ought to and exporters being offered that ought to
have been left in the stable for a month or six weeks longer. Trade
especially for the best grades.
Exporters. Prin
Exporters.- Prices ranged from $\$ 4.60$ to
$\$ 5.20$, the bulk selling at $\$ 4.85$ to $\$ 5.10$ $\$ 5.20$, the bulk selling at $\$ 4.85$ to $\$ 5.10$ Butchers'.-Prime picked lots of steers and heifers, $1,05 \mathrm{c}$ to 1,150 lbs. each, sold
at $\$ 4.60$ to $\$ 5$ per cwt. at $\$ 4.60$ to $\$ 5$ per cwt.; loads of good,
$\$ 4.25$ to $\$ 4.50 ;$ medium loads sold at
$\$ 3.90$ to $\$ 4.15$; comion $\$$. $\$ 3.90$ to $\$ 4.50$; medium loads sold at
common, $\$ 3.50$ to $\$ 3.75$
cows, $\$ 2.50$ to $\$ 3.75$; canners, $\$ 1$ to $\$ 2.25$ per cwt.
Feeders and Stockers.- Not much doing
few of either being Feeders and Stockers.-Not much doing,
few of either being offered. Steres, 1,00
to 1,150 lob. each, would bring fro
$\$ 3.75$ to $\$ 4 ;$ stockers, $\$ 2.75$ to $\$ 3$ $\$ 3.75$ to $\$ 4$; stockers, $\$ 2.75$ to $\$ 3.25$
per cwt. Mer cWt.
Milkers and Springers.-Several dealers
from Montreal being on the market caused a brisk demand for good to market caused and forward springers. Prices ranged
and from $\$ 45$ to $\$ 55$ each, with a f few of ex-
tra-quality at $\$ 60$. Common to medium
cows tra-quality at $\$ 60$. Common to medium
cows sold at $\$ 30$ to $\$ 37.50$. Veal Calves.-There are too many of in-
ferior quality, and few prime well-fed
calves crior quality, and few prime well-fed
colve marketed.
rom $\$ 3.50$ to $\$ 7$ prices ranged market for the best quality. with a brisk Sheep and Lambs.- Reveipts of sheep
and lambs have not been and lambs have not been equal to the
demand. All offered sold readily the
 sold at $\$ 5$ to $\$ 5.25$ per cwt.; culls and
bucks, $\$ 3.50$ to $\$ 4$ per cwt. ; lambs at $\$ 6$ to $\$ 7.25$ per cwt.
Hogs. - Notwithstanding the high prices Hogs.- Notwithstanding the high prices,
receipts of hogs have not been large.
Drovers report finished hogs an Drovers report finished hogs as being
scarce in the cuntry. Prices scarce in the country. Pricess, is o. o. b
cars at country points, are reported by drovers at $\$ 6.60$ points, are reported
tion, dealers $\$ 6.65$ for lights and fats. by the dealers as being exceptionally red sor so early in the season, "sprecially for
heavy workers of goord quality. The Toronto sales stables have been besiegod
with buyers from all over the during the past week. Nearly 206 horich penerally of good quality, were offered and hurns \& Sheppard reporne at one sale. lows: Single roadsters, $\$ 125$ to $\$ 145$
ingle cobs and carriage horses, $\$ 125$ $\$ 150$; matched pairs, carriage horses
$\$ 250$ to $\$ 400$; delivery horses, $\$ 125$ to \$125; to $\$ 175$; draft horses $\$ 150$, $\$ 195$; second-hand workers, $\$ 50$ to $\$ 80$ econd-hand drivers, \$50 to \$95. Grain.-Wheat-No. 2 white, 70 c . ; No.
2 mixed, 69 c . No. 2 red, 69 c . Mani-
tobe No. 1 Hard, 81c. ; No. 1 Northern,
80c. : No. 2, 79 c .

THE FARMER'S ADVOCATE.
FOUNDED 1866


 and


## By Way of Variety.

 mind for some time as one of very
great importance, viz., "The Education of Farmers' Daughters "'-what a farmer's daughter should stuat
what she should know, what she should be bhould know, what she
inder, not that she
inay dash one may dash off to the city to fill a
position there which would probably position there which would probably
be as well filled had she not come to occupy it, but that she may be
liest fitted life and the for the pures it centails. country Will our readers not take up this upon it ? We write us their thoughts grod should not come of such a dis-
cussion, while, on the other hand some articles of this kind must prove, a pleasing variation to the more
purely literary work whic
 Will all who are interested in this subject kindly send in their articles office not later than February 7 this

## The Oldest Town in Canada

## Annaporis Royal, $\mathrm{N} . \mathrm{S}$., is th

 ond oldest in North America, secsenior rival in lugustine, Florida. Nearly the irst century of its history is the history of the continent during that
time, for Port Royal, as it called in the early days, was the obsect and principal theatre of a and France, cullminating in the Founded in in 1604 ly De Monts, it was
Corsaken the forsaken the same ocupied the be rext
In July, 1606 nex

4


Old Magazine at Annapolis.
by the French-Acadians and Micmacs and in 1746, but without success During the war of the Revolution Annapolis was taken by an American privateer, and in 1690 was partially burned by two pirate ships. In all,
he town in ruins. In 1634 it was equalled by any town on the contio Claude de Razilly, dashing of nent. formally of Utrecht, Nova Scotia was for three-quarters of Britain, and after it was chief naval station of Britain in the Atlantic provinces of Modern Annapolis Royal is an at tractive town at the head of atlong, narrow Annapolis Basin, and some twenty miles, by the Dominion Atlantic Railway, east of Digby, a


Annspolis Royol
The second oldest town on the continent
he Fred by a force from Boston, but Three years later General Nicholso. with four frigates and twenty transports, left Boston and sailed for nor, was unable to resist, the goverrendered his forces. General Nicholson changed the name to Annapolis
Royal in honor of Queen Anne then queen of Great Britain. Anne, then lowing year a battle took place at Bloody Brook, near Bridgetown, when
eighty New Englanders were killed
its mouth. Here the Annapolis
River flows into the basin of its name, and the town holds of its portant position, being not only imnavigable water, but at the southwestern gateway to that most wonnapolis Valley. Across the river, on its northern bank, lies Granville, behind which looms the sheltering breast of the North Mountain, which
takes the form of a continuous clif like range, extending uninterrupted


Sally Port of Old Port Royol, Aumapolis. ristoric times.
bold Cape Blomidon, projecting into
Minas Basin toward the east one of its secluded gorges is an ice mine, " Untouched by summer's sun, and as yet undiscovered by the ice ? region ar the drives about this

Staffordshire the mighty word © Retu who obeyed illness of three days, in the after an year of his age. March 1820 ." 1820. David Kirk, with a fleet from Fing-Annapolis Royal has stood thirteen region are unexcelled in Nova Scotia.

Il


JANUARY 24, 190
THE FARMER'S ADVOCATE

Frryusson, a noted British statesman
 cisco, many of the most harassing
inatures of the disaster were caused
inv fire which fire which broke out immediate-
while the danger of looters irom among the back population was on iort of the homeless and almoct in property has been placed somis

With the Flowers
The Calla.


## The Amaryllis.

plant for window culture, its magn Itowt clusters of brilliantly-colored
Io ers rendering it an accuisition success with it, however. it is is have , plute rest at atessary to some sease it a com-var-whenever it stops sending uil he along its outer leaves. During he resting period give just enoug
vater to keep the Dulbs from shriv elling and keep in a dark place. luy
never in a cold. damp, cellar. Ieave
It there an the ,erhaps a flowerstaik-appears the ive light warmth, water, and week
applications of liinuid mambec The Amaryllis does not care much , not repot unless absolutely, necesoam mixed with good rich soth of

 lut do not let mote than two or

## Begonias.

## according the thit

隹exits beecome known. True, the age, do not, as a rule, fthurish well"utside of the greenhouse. the air of an ordinary living-room being
ustually too hot and dry Howering, thbrous-rooted vectally the thick-leaved varts, es-
 he frost can be excluded, funt which 6. more care than is given to geraniums. The main requisite is to
five them a lighty poseous soil, com-
 lith sufficient rosughmaterial at the vainage. Nowe of the hegnias For much strong sunshine, al
Mgh milyd winter sunshine is bence
They requre about as much geraniums but
r leaves showerad

## About the House.

A Pulley Clothes-line
 hact crothes live. Hope it will wink of roll up again until it gets conl, ard lay
 - Pole shoult he 10 10.it out of the. Rewert Rissoles.-To every pound of

 then into bre
brown color.
e scraps left on a

Pulley Clothes-line.
(Note the upper line, which does not appear very clearly in our illustration.)
running off in cuse the post gets out of dieed potato, and half a small onion
(rue."' (chopped). Cover with water, and boi
We arn very arateful Mr. for this information, and whe wr. Whomas are sure that until the potato is tender, then take off
the lid, and let the water boil off. Add treen abliged to step out into snowy a thicken witin a tand when boiling hot, arise and call him blessed. We would smoth in a little cold milk. Mook Thirre suggest as an improvecuent that a porok
le erected at the point from whicla the
chen into dice. Pat - Cut cooked calf's liver Wothes are to be hung. Then indeed and a saucepan, add espoum of butter might the blusters of winter be defied, then add the butter is dark brown

## Some Winter Recípes.



Plan of Pulley 1 : lothes-line
 litule while tol lrown, and stern in the as the crumbs. 2 cups stale sponge or layer





Brown Betty.--Chop 2 cups sour apples, and prenare 1 cup breaia crumbs. Nutcer a deep pudding dish, and spread a layer
of apples at the bottom. Cover wition of apples at the hottom. cover wita
breadcrumbs, and sprinkle with bis of butter, einnamen and sugar. Proceed in this way until all are used, covering the
tcp with crunts doted wilh butter. Cover, and bake slowly for hour, then emove the cover. and brown. Serve with suyar and croam. If you want to
nave the have the "Betty" more fancy, add ATple Pudding.-Make a Atpple Pudding.- -Make a suet crust, and
line a pudding basin with it. Pare, core and cut up the appless fill the basin with
them; uad surar, a little lemono peel them; udd sugar, a little lemon peel and
juice, and cover with' crust. Pinch the edges well together; cover with a floured cloth, and tie tighty. Boil $2 t$ hours,
then turn out of tio tasin, and serve very then turn out of tae basin, and serve very
hot. $\xrightarrow{\text { hol. }}$ Scotch Baked Apples.- Eight apples, 8 tatlespoons breadcrumbs, 8 teaspoois sugar, 6 teasipons marmal:de of any
kind, preferahly orange, $1 \dot{\xi}$ tablespoons Kind, preferahly orange, $1 \sharp$ tablespoons
butter.
Core the ane anes, leaving a wall at the bottom. Fill with the sugar, $\ddagger$ tablespoon butter and the marmalade mixed. Put in the pan, and bake. Mix gether. and brown in the oven. Cove gether. and brown in the oven. Cover
the taked applles with this, and serve
with

What Dr. Oldright Says About Ventilation.
In a recent address to the Household
I:conomic Society, Torontc, Dr. Oldright Reconomic Society, Torontc, Dr. Oldright
emphasized the great neoessity for the ventilation of ho sses during cold weather.
Each individual in the house," be saidd requires 3.000 cubic feet of fresh air per minute to , keep him or her in a healthy
condition.," This supply condition." TTis supply, he pointed out,
could he thta could be obtaincd by opening a window
about one-quarter of an inch at the top and the bottom. In arranging ventilaion in houses, he said, it is always more ors, eve if such words ns these should regarded. Physicians do not continually reach the doctrine of fresh air without
reason.

## The Sailor Man

## By Moira o'Neill.

$$
\begin{gathered}
\text { Way, } \\
\text { Over the sea, over the sea, }
\end{gathered}
$$

I I come back to Ireland one sunny $\underset{\substack{\text { day, } \\ \text { Bet ther }}}{ }$
The first time me foot got the feel o' the
rish city That hasn't its aquil the world around that are pretty. ther
on thair feet now they passed me Give me your word, give me your wor Just like a bird, just like a bind:
$\Lambda_{n}{ }^{\prime}$ the lashes so thick round their beauShininn' to tell you it's fair time o' day Hack in ine heart wid a kind $\sigma^{\prime}$ surprise
1 think how the Irish girls thas the way wid them !

That never was there, that never was .ook where ye like for them, long may What do I care ? What do I care? nenty as backberies where will ye find
l'are trectity girls, not by two nor by three $a^{\prime}$. them?
just there the St ill $\begin{gathered}\text { mind. } \\ \text { like }\end{gathered}$ the blackberries, more than

The Ingle Nook.
Some Interesting Questions. A few weeks ago Rev. Dr. Van St., Toronto, solicited from among the young men of his church opinions regarding the young women of to-
day. From among the many letters received, the following criticis
were selected as representative :
" So few young women nowadays know anything about cooking or kitchen knowl edge that baking and brt
home is almost a lost art
Young women have a great desire to be seen and admired, no matter at what pense of anyone but themselves.' "Many are dowdy and dishevelled
heir home, unless expecting visitors. ". Most young women are looking willing to spend it most money and preference being set aside as of secondary moment."
"Very few young ladies of the present
day are sincere or unselfish. With their ay are sincere or unselfish. With their
own sex they are all smiles and endearments, providing they wisi to use them as a means to gaining their own ends, outside of that consideration are
often spiteful, envious, jealous and frequently slanderous.'
Those who profess to be church members and many who are semi-religious are
inclined to to narrow-minded-will turn down a young man if they hear he smokes or has been to the races, but invariably never investigate to ascertain the truth of the rumor, nor, if true, use their religious
influence $t_{6}$ persuade ant lead him to the jroper path

- Very many young women of this
generation are unkind to their parents, generation are unkind to their parents,
regard their younger brothers and sisters as so many nuisances, but with those of
the younger men they desire to please are the acme of sisterly graces and affecticn." Nearly all prefer the man of the
sporty type, who knows society from its
risque and swatger standpoint but for the thoughtful, earnest and intelligent man they have no use; he
and his dullness pains them.
so far as these columns are con cerned, be set aside ; farmers
daughters invariably know at daughters invariably know at least
something of cooking and baking and the criticism was evidently made in regard to city girls in homes where maids are kept.
As regards the others, many of our young women may, possibly, arise
in arins; and yet we venture to say that any young woman who knows the world at all must confess to knowing girls and girls whom these
descriptions exactly fit. Young men do not go about with their eyes
shut, and there is the ring of honesty in these words that they have
spoken. If they have confused inspoken. If they have confused in perhaps, because they have met tod
many of the "individuals." It is of a clique grow to be painfully re naturally confined jodgenents icular clique with which the par n touch.
With the deduction made from the
etters regarding the ideal woman, iew of our readers will quarrel. We
continue from the report of the pasor's address
The ideal woman, from the letters rear O be the most desired.
Who has womanly graces, whi Who of home, husband and children; . the best with the income at coml mand;
Who has a hiyh and exalted sense uty she barat to her own family
wy nownons
$\qquad$
$\qquad$Who has an absesme of that inorrinatead all-cunsuming love for dress and dis lay that is the bane and ruin of so many
her sisters and so many homes. Summing up. the pastor said that what
grandmother represented; one who valued
a pure heart more than a big diamond.
The pastor appealed to the youmg a pure heart more than a big diamond.
The pastor appealed to the young
women present to try to get rid of their faults and to endeavor to tive more ac-
cording to the ideal set out in the letter he had just read, to strive and realize in their own lives and actions that higher, grander and broader life described by the
Psalmist, when to all womankind for Psalmist, when to all womankind for
the centuries he enjoins, " Cleanse th me of my secret faults."
Before closing, there is just one
point upon which we should like to say a few words, i.e., regarding the assertion that, i.e., great many
young women prefer the man of the "sporty type,", etce., to the "thoughtsporty type," etc., to the "thought-
ful, earnest man." Whe should like
to say that this is not to, say that this is not true, but we
know better. Yet, in defence of the know better. Yet, in defence of the
girls, we must say that it is not because a man is "sporty" or of the
" risque" description that they like him, but because of something else that is attractive, often found in
that type of man. Lacking that "something,", a man who is simply "fast" is utterly obnoxious to the feminine mind. No woman can like
or respect a man for the simple reaor respect a man for the simple rea-
son that he drinks, smokes; swears and swaggers. If she is honest, she must confess that she would like him better if he gave himself up to no
a single one of these foolishnesses But what is that other "something "'? This is a question for the young women, and perhaps some ". the older" ones, too," who have hee Might it not be possible for the men of that " thoughtful, earnest " type who do not happen to possess it (for
there are many who do) to cultivate it, and so win for themselves the recognition which they deserve? Or cultivate in themselves any attribute or temperament to which they have perilously " near "'? We are getting psychological, and perhaps we the we cannot follow-but low in maze which tions well worth the considering-
Will you not send us some of your thoughts about them


## Cure for Chilblains


$\qquad$ leather and put on coals, and sit down thardens the feet that a sure cure, for it cold so easily. Repeat this after wash
ing them. This cured mine, which were
terinter arrible all my life, and it is so simple.
hope it cures your little fellow's feet Wellinut on Co LANKSHIRE LASS. A Request

## a little chat? as my baby is sleeping, and 1 have nothin a sore lege to do but nurse

 a sore leg. By the way i wonder in any and foot. That is my troulle, and I havebeen laid wil with it fur months.
I offer my sympathy to Lankshire Lass and I do hope she is hetter again. Do
you know, Dame 1 Dur inn, I do not think Mny of us have.. chough sympatiny with the


# Another 25th Anniversary 

 May, Welland Co., Ont., probabl versary answered in a previous issue which, however, was just in the pruc ess of making when her letter $u$ asreceived. The following is the recipe received. The following is the recipe
for salted almonds. The others were given in the issue referred to. Sy Salted Almonds.- Shell and blanch by pouring boiling water on them,
then letting stand five minutes, and finally rubbing off the skins with a coarse towel. Dry very thoroughly and to each pint of meats allow tablespoons olive oil. Pour over
the nuts, and toss with a fork until the nuts, and toss with a fork until
well coated. Set aside for an buur to let them absorb the oil, then
dredge lightly with fine salt. Last of all, put in a bright baking-tin and set in the oven. Bake till a golden
brown, shaking the tin frequently to insure even browning. They will b done in about ten minutes.
$\qquad$

## Westerners, Listen

$\qquad$ I do want to thell Nook? fingers from circle of a way to keep their ing out the clothes on cold days. hang putting the clothes-pegs in the oven to
warm, and you will see how much bette
it is. A piece of it is. A piece of court plaster is excel-
lent lent to pat under a small tear in a dark as you would if you were going to put it on your hands, then press firmly on the wrong side, and the rent will hardly
show at all. It is also good to mend man's felt hat.
Now, will some of our Western friends listen? I would like to go West next where where I could get employment country. I I Emow somes girls who weat
there last summer, and received twent dollars a month. Now, is this general, What work is expected of a hired girl in
the West?

$\qquad$
next summer, and. we thought if we
ant tien we would have a chance to to sos,

A Child's Birthday Party
who do not like sweet things bread and butter, some pretty jelly with whipped cream, frui, candy and a birthday cake prettily deca
rated, should be sufficient. ors, sticks of candy with crinkl Japanese paper tied on for capes and skirts would be pretty. The eyes nose and mouth might be painted on
with thick cochineal, which is harm less; or you might gild walnut shells, put a very tiny doll (which may be bought small, enough) in each, glue the halves together, and The following recipe for Child's Birthday Cake is recommended by
Boston Cooking School. Beat of 5 eggs very light, then Beat yolks of 5 eggs very light, then gradually
beat in cups sugar. Add grated rind and juice of half a lemon. Fold half of the stiffly-beaten whites int ${ }^{2}$ and then adn cups sifted flour, st whites. ates should be very moderate. When cold, cover with boiled frosting, and decorate prettily according to taste.
About the cake put ten lighted wax About the cake put ten lighted wax
candles, one for each year of the child's age. These may be fastened to the cake with bent bits of bright
wire. Any further suggestions from

Ships that Never Came Back with Hopes and And trimmed the sails with prayer,
And hoisted the anchor to the decks And hoisted the anchor to the decks On a morning bright and fair,
And she glided away in proud array, On a gleaming jasper sea,
But in all the years of waiting and She never came back to me, I freighted a ship with the Greed And set it afloat again,
And victualed it well, and barbed her Hith guns and valient me
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Then struggles hegan with my fellow man Bhose cargo the ship's should be, Then I sailed a ship all laden down With Love for my fellow man, And all of her cost from my ledger Ere the voyage of the ship began.
But never a ship that left the slip Made such a verange as she,
For a thousand weight of her previous



How He Saved Money.
flammation tromble. "ill they please be
kind enough to

Recipes
Bob, Son of Battle.

Which Will Be Your Home?






Learn to Write Advertisements

This handsome, illustrated
book sent free on applicatlon.


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Spot

## spup

AND NTINE

Farm for Sale.



 crest wit oo offered for sale at p p, blic auctional
 ble and derirperty makes one of the most valu
onde properties for mixed farmine ob beand in the County of Hurron conarimine
of rarable and pasture lands, with good suaplie



 VMRM, M, FAlk, Executors. $\begin{gathered}\text { D. Dickinson, } \\ \text { Auctioneer. }\end{gathered}$


When Poultry Pays
aldress on a postcard-- Send your name an
posteaid, free. Sill come
Send for it torday-NOW
The Lee-Hodgins Co., Limited Pembroke St., Pembroke, Ont.

## Does Your F00D

## Digest Well?

the fon the food is imperfectly digeste the 'body and the purpose of eating is do.
feated; no matter how feated; no matter how good the food or body it may be. Thus the dyspeptic ofter
eecomes thin, becomes thin, weak and debilitated, energy is lacking, brightness, snap and vim ar
lost, and in their place come dullness appetite. depression and langour. It take no great kno wledge to know when one hai
indigestion, some of the followin oms generally exist, viz. constip symp. sour stomach, variable appetite, headache,
heartburn, gas in the stomach, etc. The great point is to cure it, to get back
bounding health and vigor.

BURDOCK
BLOOD BITTERS
booause it acts in a natural yet effective way upon all the organs involved in the process of digestion, removing all clogging
inpurities and making easy the worl of
digestion and gestion and assimilation.
Mrites: "I Maverve, Ameliasburg, Ont.,
it pspsia for several years and after using
three bottles of Burdock Blood Bitters was wompletely of Burdock Blood Bitters B.B. B. enough for what it has done for
me. II have not had a sign of dyspeper Do not accept a substitute for B.B.B There is nothing " j . There is nothing " just as good.

THE FARMER'S ADVOCATE.
The Letter Box
A Request from Appleblossom

An Alpbabet Party


THE PEERLESS WOVEN WIRE FENCE
bes as
 Sta Dominion Tho tarmersof the
 of Poor toan Fonoisiono of thebe



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THE FENCE
PEERLESS LOCK
(
STOCK

## Red Rose Tea

 "is good tea"Use a package and you will not be satisfied with any other tea.

Prices-25, 30, 35, 40, 50 and 60 cts. per lb. in lead packets
T. H. ESTABROOKS, ST. JOhn, N. B. WINNLPE

TOMONTO, • Welumeton St., E.
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Foin





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OUIEY IN CANARIES

## \%

 5xatwayCOTTAM BIRD SEED
ss Eathurat st., London. Ont. JERsEYCON, registered. H. B. 7 years old



cossup.


 m., and Brandon Winter Fair, Stallion and Pouttry Show, Fet. 19th to 21st. Mr. S. J. Prouse. Ingersoll, Ont., do
sires us to announce that be will sell by
 fillies, 3 Hackney mares, and 11 celydesdale stallions and colts. Look for adv
tisement in this paper next week Too late for insertion in this issue. wo
have an advertisement from J. $\&$ wo Russell, Richmond Hill, Ont., offering for sate 12 Shorthor bulls. ten months to
two years old, severall of which are two years old, several of which are from
Torontowinning dams.
See the advertisement next week.




 $\underset{\text { march }}{\text { Math-Arthur }}$ (Johnston, Shortherns (dispersion).

## Volume 52 of Coates' Herdbook of Shortiorn cattle, published by the Short

 horn Sooiety of Gratet Britiin and Ireiand, has, through the courtess of the secretary, been received at this office. It
is a buiky volume of 1,325 pages. the largest volume ine the series, containing
the pedigres of 3,371 bulls, and of cows the pedigrees of 3,371 bulls, and of cows
to Dec. 31 st , 1905, showing that interest in the the grand old red, whito and roan
breed
is
not deminishing, but rather breed is net deminishing, but rather
steadily increasing. The ilist of breaders
having $\begin{aligned} & \text { having entries in this } \\ & \text { considerably over }\end{aligned}$ volume numbers
The address of considerably over 800. The address of
hee secretary is 12 Hanover Square, Lon-
den In our advertising columns this week will be found an advertisement of an im-
portant auction sale of Shorthorn catte,
which will tanke tlace weetnosday
 Duakerron, three miles south of Bond
Heado not seven miles troum
stations, Bratiford and Tontenam

$\qquad$


 head of the imported whas of on your farmu this steson, writu at onece
Mr. Chas. Rankin for three years.


 of exceptionally even build, with remark-
ably trut hines and quality at overke
has troven himself to to an exvellent sire,
 formity of type. Ampng the females
which irve equanly well brat is the excel-
ient importail cow.

Mr. Wm. H. Gibson, Manager of $S$
Geo. Drummond's Huntlywood Geo. Drummond's Huntlywood Stoch
Farm, at Beaconsfield, Quebec, in sending Farm, at Beaconstield, Quebec, in sending
us photographs of their champion Southdowns, illustrated on another page of
this issue, writes: © The grand champion this issue, writes: "The grand champion wether, over all breeds, grades and
crosses, at Chicago, 1906, was sired by Imp. Sandringham 16401, out of Drummond Ewe 447, and was twin-brother to the gratud champion wether lamb at Chi-
cago, 1905. The grand-champion wether cago, 1905. The grand-champion wether of the same ewe, and she is now in lamb, again to Royal Champion, sweepstakes ${ }_{1905}^{\mathrm{ram}}$. ${ }^{\text {at }} \begin{aligned} & \text { the English Royal, at Derby, } \\ & \text { Our sheep have won the bread }\end{aligned}$ championship at Chicago five years consecutively, and the grand championship he last two years. I mail catalogue o young bulls I ever saw on obe the hend was never in better shape; calvec coming on thick and fast.
Mr. I.. F. Morgan, Milliken P. O.
and Station, on G. T. R., 17 miles north. east of Toronto, Ont., importer and
breeder of Berkshire swine and Hampshire sheep, a cut of a group of whose in ported Rerkshire sows appears in this of pirs of "I narious ages, or of better
blood, than atter lot blood, than those I am now offering,
among them being imported pigs from the three prize sows lately imported by me the late Toronto and Otrawna shows. These sows are of the same blood, and
closely related to the champion sow at the Roval Show of England, in 1906 , a
sow which weighed nearly 800 lbs. months old, arid was pronounced one of the longest and best sows ever seell
there. I also have the best crop of fall pigs from other imported-bred sows I ever had, got by the ngted imported boar,
Lucky Hightide, whose sire, Old Hiphtite produced the first-prive winners at the have some excellent pigs, got by Oakdale Compton (imp.), a Vincent-bred bcar of
the best Compton much like the famous Polgate Doctor
(imp.), and is a boar of much the same type, being long and low, with gooal my herd will convince those wanting the
best class noted blood living, that the pigs from my
imported sows. imported sows, as well as those from
other of my sows, such as Black Gint 10th, a daughter of the $\$ 2,500$ Masterpremier sow, a daughter of the silver ronto, etc.. etc., that I have what the who writes. "I may point out ontat when
applications are rectivel from farmery
statiner whether experienced of man they want, marriced or single, these applicationseen ary
placed on file here, and when the imn grants arrive they are examined by the
Gevernment officers Government officerys as examined by the their qualific
tions, and fitted to the aplication tions, and fitted to the applications
nearly as possible.
The immigrants a nearly as possible. The immigrants a
then furnished with free transportatio
from Ton farm whore their services nearest the expectecl to work a week or more
on trial allal then make their own ampe

## IMPORTANT AUCTION SALE

of imported and canadian-bred

## Scotch Shorthorns Clyde and Shire Mares and Stallions

35 Imported and Canadian-bred Scotch Shorthorns, including one of the best young imported stook bulls in Canada. They represent the Nonpareil Ury, Maggie, Fairy, Missie, Undine, Minnie, Miss Rampden, Village Girl
and Rosebud strains. Are all in fine condition, and an essentially high-class 10 lo $\mathbf{8}$ Imported and Canadian-bred Clyde and Shire fillies (all registered), and Shire and 1 Clyde Etallion- yearlings. Also

Imported and Canadian-bred Leicester Sheep
in lamb to a Toronto and London winner
J. M. Gardhouse, Weston, Ont.

THURSDAY, FEB. 7th, 1907

Term cash, unless otherwise arranged for before sale.
This is one of the best offerings ever sold by auction in Canada
Catalogues.
Capt. T. E. Robson
J. K. Russell

Auctioneers.

## AUCTIIONSELE

at Maple Hurst Farm, KENILWORTH, oi
Thursday, Jan. 31st, '07,
At 1 p.m. sharp
Consisting of seven bulls, ranging from one to two years old; twenty females,
welve of which are choice young cows of good milking trains, with cals Marr Princess Royplesent stock bull, Prince 61878, by Prime Fivorite (imp.), al thick, mossy type. Also a few matched pairs of road ynd carriaige thore of the be offered, and a few pure-bred Yorkshife and Berkshire sows.
Farm: carriage morme wile from Kenilworth, seven miles from Arthur, eight from Mt Farm: © ene mile from Kanilworth, sever miles fr
Forest, on C. P. R. All tratns met on day of sale.
M. J. McGILLICUDDY, Proprietor.

## Auction Sale of Shorthorns


WEDNESDAY, FEBRUARY 6th, 1907,
 COL. J. K. MCEWEN, AUCTIONEER.
J. J. Kiteley, Prop., Dunkerron, Ont.

Whan Writing Plaase Mention Advocato

GOSSIP
$\begin{array}{ll}\text { Messrs. } & \text { Matt. Richardson \& Son, } \\ \text { Caledonia, } \\ \text { Ont., write }\end{array}$ Caledonia, Ont., write : " Our Holstein
sale passed large crowd. Many of our friends, old customers and buyers, were present. We customers and buyers, were present. We
used our best efforts, and beg to thank -The Farmer's Advocate' for its effcient helps toward the success of the sale. J. W. Richardson will continue the bust be for one of even higher quality. The young stock bull, Sir Pietertie Posch De Boer, will head the herd. His three nearest dams have offlial records that average 25.67 lbs. butter in one weok, and
87.8 lbs. milk in a day. Among other 87.. Ths. milk in a day. Among other
females, not offered in the sale, are 17 Iemales, not offered in the sale, are ${ }^{17}$
daughters of Johanna Rue 4th's Lad."

TRADE TOPICS.
ROOFING SAMPLES FREE.-Here is
an offer which any one of our readers an offie which any one of our readers
who has a building to roor and proserve,
huild or repir will firm named below will send you a sample of their Flint-ccated Rubber Fireproof Roof-
ing, delivered prepald, free, if you will ing, deli ivered prepasd, free, if you will
simply write a postal to their address,
and and say you are one of our readers. It
will pay you to
you a chance to do this. . t t will sive how yoonce roo get information about
shoutd be mang should be made. You can try it for your-
self. You'll receive in ing and also a large me mee book on roofBoth will show how mill-work cat alague.
ing, repair work or ony roafle ing, repair work or building, which you
are eoing to do now, or any time in the
then future, you can save money. Write for
free sample free sample of roofing, tree roofing book
and free mill-work catalogue

 Station B55, Davenport, Iowa.

DR. chase's bullding.-An inter was the laying of the corner stone of the new Dr. Chase 5 -story building at the corner
of Adelaide and Duncan streets.
Little
 in the sixties he began to ond hawh hay back
tice overriding the bounds of his hack State of Michigan and extending into
Canada, or even later in order to supply the Canadian demand for
his medicines his medicines, he arranged for their man-
ufacture in this country. ufacture in this country.
will be taken up with the mailing do partment trom which Dr. Chase's oalendar almanac is sent to Canadian homes.
The weather forecast is prine To add to the value of the book many. space is allowed for keeping a diary. An
annual contest in which 820 annual contest in which $\$ 200$ in gold is
awarded for the best-kept diary has made awarded for the best-kept diary has made
this feature of the almanac very popular. If for any reason Dranac very popular.
It hase's Calander me it will he has not reached your quest to Edmanson, Bates \& Co., Toronto, and on page 27 you will find fill par-
ticulars about the dlary contest.

QUESTIONS AND ANSWER:
Veterinary.

LICE-weak bybs.

## Horses have lice. Horse has weak eyes.

Ans. -1 . If the stable is warm, and you once every week with a four-per.cent.
solution of Zenoleum, heated to 100 de greas Fahr. As soon as the insects cease
hatching, discontinue the hatching, discontinue the dressing. II
conditions are suh that you are afraid to
clip, just use the dressing conditions are such that you are afraid to
clip, just use the dressing as above
2. All that can be done is to tran the
 cyes when they become sore. Keep horse
in comfortable stall, excluded from dratts
and sunshine. Bathe well, three times
Bind



EVERY HOME meeds Zam-buk
EXPERTENOES OF HOUSEKEEPERS WHO KEEP IT HANDY


FOR THE FARM
Geo. Keith, 124 King St. E., Toronto Send for 1907 oatologue.


## HEREFORDS

 JANUARY SALE
 H. D. smith, Hamllton, owt.

## ABERDEEN - ANGUS

Erioa and Blaokbird families Young bulls and JOHN UNDERWOOD. ©RAFTON, ONT DURHAM BULLS FOR SALE Thave thren god bull calves for sale,
onor rea and wor roans. Clementina,
Non


ниан тномson, st, mary's, Ont.
Angus Cattle The kind that get




 ind

HAMILTON \& HAWTHORNE, SImcoe, Ont. milles south-west of Toronto on the G. T. R.


IMP. CLYDESOALES \& HACKNEYS
Stallions and fillies of both breeds, representing the best blood of Eng-
land and Scotland, combining size and quality and faultless action. If in want of something exceptionally
choice, oome and see me. You will choice, come and see me. You will
not be disappointed. Prices right. DUGALD ROSS, Streetsville, Ont

## GRAHAM BROS. <br> "Calmbmogle," CLAREMONT.

 napoatera onHACKNEYS and CLYDESDALES Established 30 years, and winners at all large show in Oanada and United Statees. Best of stook alway just arrivod

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 CLYDESDALES, SHORTHORNS and YORKSHIRES Besides our high-class Clydesdale fillies, we are offiering bome well-bred
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HEIFERE at rean DONALD GUNN \& SON, BEAVERTON P.O. \& STN Farm Throe-quartere of a mile from station
BMITH \& RICHARDSON,

2COLUMBUS, ONT.,

 Lond-dietance 'Phone Myrtle station, C. P. R

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blood, noted winners, noted sires ; weighing a ton quality and true aotion. Come and see them.

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Hackneys, Standard-breds and Thomoughbreds






QUESTIONS AND ANSWERS Miscellaneous.

## It Tells at the Pail

Give the cows what they need and they will give you what you want. No mystery about it. We don't claim medical colleges and anther do claim to improve digestion by supplying the animal with exactly what the noted depends upon digestion-we know that only about fifty-five per cent. of the food of a healthy animal is growt What the average animal digests we don't know-but Dr. Hess Stock Food will make every cow, steer and hog digest the largest possible amount of food and convert it into profit. If we fed a cow or steer for the same purpose we feed ourselves, they perhaps would not need a tonic continuously. But we make it a business to overfeed


Sunnyside Herefords
Sunnyside Herefords



Choice Shorthorns
 Manager J. G. DAVIDSON. Manager Sir Wam. Mulock's Farms, Huntlywood Shorthorns, Young balls for sale. The best lot we
ver had, by Imported Cicely's Pride (77594), out of importeded dams. Broad
hooks. Lavenders, Lancasters, etc.
Prices reasonable. W. H. Glbson, Manager, Huntlywood Farm. Beaconsfield, Qu Maple Hill Stock Farm $\begin{gathered}\text { Scotch Shorthorns } \\ \text { speciall offerin }\end{gathered}$ of a red bull calf of Missio family, sired by Rustic
Chief (imp.) $=40419=$ also bome choice female
 GLEN GOW SHORTHORNS $G$ offering is 9 bulls, from 6 to 14 mon prose ager sirred by Imp. Ben Loman ant Imp
oy of Morning. and out of Imp. and Candian red oows. Also a number of very choice heifer
Oo fanco prices amked. Long distance phone Om.Smith. Columbus P.O. Brooklin \& Myrtle Stn Shorthorns for sale. Five choioe bulls, al from imp. dams; also fomales of ail age ALEX. BURNS. Rockwood P.... and G.T.R. Sta FARMER'S, ADVOCATE "Wart Sor in For sais, and you will soon know all a bout it
"' GLENORO

A. EDWARD MEYER


 SHORTHORNS \& BERKSHIRES


 SHORTHORNO


 KENWOOD Stock FARM. SHORTHORNS.

 Hainine bros.., Highgate. Ont. Kent Co. Bpring Valley Shorthorns

 KYLE BROS., Dak Grove Shorthorns- Ayr. Ontarlo. ealves, one heifer Balves, one haiter calf from imp. eows, got by
Nonparei Duke (iml, They
Pricer right to suit the times are a good lot.





John Gardhouse \& Sons mporters and breeders
Scotch $\$$ Shorthorn cattle, ${ }^{\text {Shir }}$
 Lincoln sheep. Jurs now we
are offering a few extra choice are offering a few extra choice
heifers shom staft among and
them; also three rare goog

SUMHYSIDE STOCK FARM

JAMES GIBB,
JAMES GIBB,
Brooksdale, Ont.



harmless condiment
That would you thiok of a stock food
that $a$ cow could eat five pounds once and it not be affected in any way? Ans.-We should say that it possessed in being comparatively harmless WANTS LIGOWO OATS.
Will you kindly put me in communication with
for sale? Ans.-C Anually advertise the seedsmen who annually advertise in these columns.
Farmers having superior seed oats fo
sale could use our ." Went sale could use our "Wart and For Sale
column to excellent advantage. is only three cents a word for each inIraw business can be put in for 75 c .,
GASOLINE - HORSE-POWER

1. Is there any difference in an Ameri-
can (U. S.) horse-power and a Cond horse-power in all kinds of engines? 2. Does the horse-power vary in gascline, steam, etc., engines
2. What does gasoline weigh 3. What does gasoline weigh per gallon
and dces the weight vary with the ent grades? 4. Is there any danger of injuring the
cylinder of a gas or gasoline engine cylinder of a gas or gasoline engine by
letting the water get too hot, or is it letting the water get too hot, or is it
better to keep it cold ? Ans.-1. The horse-power as Watt de-
termined when he invented the termined when he invented the steam en-
gine was the inergy gine was the energy required to lift
33,000 pounds one foot per minute, or
the equivalent thereto the equivalent thereto. per minute, or
Those figures
hold in ratinge of steam power, water power, electricity, or gasoline. 2. It is generally conceded that gas
line, with a specific gravity give about 15 per cent. greater power
than illuminating gas than illuminating gas in the same-sized
engine cylinder. 3. The weight varies according
grade, but 7 pounds to the standard quoted to us by a local oil 4. The water should pass from the
cylinder at 132 degrees F . This will give
the best the begt results with gas or gaso
tine engines. Should the water be
lome much hotter, the tendency will
come be to burn the lubricating oil from
the cylinder, though with special grades
of gas-engine oil, the manufacturers claim
there will be no trouble in lubricating

## adminibtering an estate

 widow, six without a will, leaving aeldest, living inghers and one son, the last thirty years. A left a small amount
of money in the bank, with the standing that if he died his youngest
daughter or her husband money out for his widow; but draw then they
applied for it at whe applied for it at the bank, their names
were not on the book. A's youngest
daughter went to daughter went to a lawyer to youngest
could be done. He He advised her to get her
mother, mother, or one of the family, to act as
administratrix, and get the money out A's widow not being able to act, ask
her youngest daughter to Her lawyer alsc got out a paper for rest of the sisters and brother to sign,
stating that they were and paid the money over to her mother. t liberty to pay the money over until
he will sign. 1. Could there be a paper got out for
er mother to sign, showing that she re-
eived the first the money, and do away with th 2. Would it clear the daughter in cas 3. Can the children claim a share, th
amount being less than three hundred?
4. Can the daughter charge for actin Wrould it have to be got out by
wer, or could anyone write it cut?
StibSCRIBER.
mubthass Scotch Shorthorn Bulls.

## 10 uataus Scotch Shorthorn Heifers.

No herd in America can offer a better selection of young cattle than these. Our prices are consistent with quality. One black yearling Clyde Stallion and Yeapling Filly also for sale.
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2 just past two years old, 15j just over one yeerr old The best lot we ever had to offer in individanality and breeding,
and prices are right. Catalogue.
John Clancy, H. CARGILL \& SON,
AT "MAPLE SHADE"
furnish Cruickshank bulls of high quality to head the best hace We can some that should produce the best prime steers. We have a bull
catalogue. Send for JOHN DRYDEN \& BON, Yrrile, O.P.B. Long-distanciln, Ont, PURE SOOTOH

## SHORTHORNS

Offering for Dooember and January : Imp. Scottigh Pride $=36106=$
$\mathbf{B}$ yearling bulls from imp.
2 young bulls from 8 to 14 monthe sle from
 25 heifor calvees, yearlingsa and at foot or in coal I imp. Yorkshire sows, due to farrow in March
7 Doar and 10 sow, and 5 months old.


W. G. PETTIT \& SONS, Freeman, Ont SHORTHORNS Imp. Keith Baron s6050. Six young balls from
10 to 18 monthe old. A lot of 9 -year-old heiler
 CLYDE8DALES Jusif now: One pair of matohed gelainge $\bar{b}$ and
years olat ; show team. JAS. MoARTHUR, Gobla's, Ont. Clover Lea Stook Farm SHORTHORNS

 R. H. REID, PINE RIVER, ONT Plaasant Valley Shorthorrns
 out of imp. and Canadian-bred cows,
of good BCoth breaning. also everal
young oows and heifers. Correspondence GEO. KMOS \& SON, MOPT, Farm 11 miles east of Guelph, on C.P.R., Brown Lee Shorthorns - Present offering is foo 16 monthg old, a nice straight, good-doing


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Special offer now: Several chcice show bulls, a roan yearling and a red two-year-old by Derby (imp.) Maid $=47779=$, by the great sire Royal Prince $=26062=$. There is
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HIIDSON USHER, Queenston, Ont GEORGE D. FLETCHER, Breoder of sootoh Sherthorn
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 of either sex, 7 monthe ola, from imp Aire
dam. Sow bred to imp. hog if desired.
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The champion herd of EIIgin
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 and by imp, Bire. Bhrophires, both bexee-lamb
and thearlings. Berkehires, both sexee, by imp
tre For Sale The itook bull, ouenntox dam Veronica (Imp.) by Brave Aroher (Imp (Imp) BELL BROS., Bradford, On


HOLLYMUUIT SHOBTHORIIS
$\qquad$ and tho ciot or
imp, etoolh 2 F HEAD

W. J. Thompson, Mitchell P. O. a Sta. MAPLE GROVE SHORTHORNS

T.Mry preant ofering: Bov-

 C. D. WAGER, Entorpplise Btn. \& P.O., Addilintiton Oo Maplo Lodgo Stock Fam.

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also cows and heifers, imported and home-brews and hispiftris,
solicited. We think we have
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20 months old,
them from old and a fow resistered fllies of goo famalitits, dOHN MILEER, Bmoutham, Ont: $\frac{\text { Claremont Sta., C.P.R.; Piokering. G.T.R. }}{\text { Private }}$ short private sale of SHORT-horn atile at
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home in
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Wellington has died at his victim of rinity Avenue, New York, the

 bone snapped. According to his physi-
cian the cian this terrible condition was brught
abcut by taking modicine which contanged abcut by taking medicine which contained
a certain mineral poison. a certain mineral poison.
Again and again has then demo
strated that mineral medicines are hari
 mercury, and from pretty nearly every other
stomach medicine in being free from the muth. They are also free from alcohol.
They are compounded They are compounded from the finest
known medicinal herbs and roots, and are Known medicinal herbs and roots, and are
thus the best family medicine that can be chus the . Test family medicine that can be
coperate gently on the
 They correct acidity of the stomach,
stimulate the digestinn, tone up the liver,
and correot the secretion and correot the secretion of bile. Their
general action is the the same time cor-
rective and tonic-ccurrecting faulty secre rective and tonic-correcting faulty secre-
tion, toning up weak and debilitated organse They
sickness, female ailments and and irres grean ties, blood impurities, rheumatism, etc.
For nausea, headache, gas, pain in the For nausea, headache, gas, pain in the
chest and between the shoulders they are also very effective. $\begin{gathered}\text { Their operation is } \\ \text { mild, yet effective. } \\ \text { mo curing constipa- }\end{gathered}$
In tion they do not cause after-Constipation,
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will many little ailments to which children are All stores and druggists sely
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 Ayrshire Bulls by belect pair (13 monthg old)



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## cossip. <br> Livestock ear labels, with name and number for coatle gheop and acces, aro   corded stock is kept. see the advertion ment, which speake (tor ite    <br> PASTOR AND PEOPLE PRAISE DOMDIT (PRONOUNCED SÍKEEN)



 stallion
mentioning
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$\qquad$ ions of the carcasse ot catticters ond opin
purchased
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 steer. The King's champion shorthorn
ster, which was decher as one of the finest beneste butcher

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 ever had to offer. They combine all the
essentials which bulls, viz, which flesh, go to make up good
and the very, beonformation and
being out of best of Scotch breeding, al
simported Scotch cows and sired by gilt-edged importod Scotch bulls,
both of which have been specially selecte with the idea of producing speod ones. " We shall be pleased to forward cata$t_{0}$ a ayyone interested, together with any information desired. While we are mak-
ing a special offering ng a special offering of the bulls, please
do not forget that we are equally well equipped with heifers, from some just past " We years old, in calf, down to calves. herd interesting to anyone who has to our days to spare, and who may be in-
derested in tooking one has terested in looking over one of the best
herds of pure Scotch herds of pure Scotch Shorthorns in
America. "We do business so that when we once back when anything more of ten come
bhich means satisfied
whired, which means satisfied customers."
what it costs to run an auto The prospective automobile purchaser
must realize that even though he buys a runabout - the smallest type of metor,
carrying the driver and one cther carrying the driver and one other
passenger -he is not going to be able to
keen keep the car in operation for $\$ 5$ ar $\$ 10$ a
month. It has often been sald and truly month. It has often been said ard truly,
that it is not the first cost of an auto methile that counts so much as the main-
tenance expense. It may be possible fo
a man with a small a man with a small car who motors
modestly to get along with an expense of
$\$ 26$ or $\$ 30$ a month if he he her $\$ 26$ or $\$ 30$ a month if he has good luck
and handles his car carefully and con
siderately, but the aver siderately, but the average cost of main
tenance will be from $\$ 50$ to $\$ 300$, and tenance will be from $\$ 50$ to $\$ 300$, and
even more, a month. Here are some
figures from bills I paid while the of a car of the runabout type with a
single cylinder eight-hore single cylinder eight-horsepower engine
and convertible body carrying twe passengers. These are my expenses four
seven mont seven months, from April to November,
when I covered bill for April was $\$ 55.88$. My bill $\begin{aligned} & \text { My } \\ & \text { in }\end{aligned}$ chiefly for mechanics' and was made justments, as I was not then faking ad-
enough with the
enough with the car to do this work
myself.-From " The
Average Man," by Harry Boble Haines, the
the American Monthly Review

A Marvellous and Triumphant Record of Victory Over Disease.

No medicine has ever effected as large a number of wonderful and almost mar-
vellous cureas as Psychine. It has had one vellous cures as Psychine. It has had one
continuous record of victories over disen es of the throat, chest, lungs and stomach Where doctors have pronounced case wasting disent consumption and othe rescues numberless people steps in an very verge of the grave. Coughs, Colde Catarrh, Bronchitis, Chills, Night'Sweat troubles, all of which are and other lik Consumption, yield quickly to the crar Mre powers of Psychine.
Mrs. Campbell, one of the many cared, I cannot retratn from tellifo






 PSYOHINE never disappointer
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At all dealers, is noc, and $\$ 1.00$ per botul DR. T. A. sloceun, Limiteo, 179 lling st m, teaionto and peroot's Kidney Pills are a sirre Bright's Disease, Pain in the fack and all forms of Kidney Trouble. 25c per
box, at all dealers. W. W. CHAPMAN,

Ecrotaly, of the Mational Bhoes
Coratary of the Kont, op Rommer
and late Beoretary of the Borihdoren

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 P. O. COLLINS, Boweswille P.O., Ont.
 MAPLE LEAF

 Casile, and young boars. Jooh hua Law inn oroo
Oxfora Comtro P. O. Woodstock Station
Willowdale Berkshires

 am. Satiafaction guaranteed J. J. Willson, milton P.O. and Sta. Maple Grove Yorkshires


McIAR
hlo Improved Chestor White



 Mmproved YORKSHIRES Ohoioe 耳onng gitook from imporived
Drizewinning stook tor Bale.
geo. m. smith. havsville ow Duroc Jerseys




E. D. Groram. Potnam. Ont

## $\rightarrow$

ELMFIELD YORKSHIRE finve few yonng bows from




## cossip. <br> M. (iardhouse's sale.

 As announced last week, under cover,Weston, on Thursday, Feluruary 7 th Weston, on Thursday, Felruary 7 th, 1907,
Mr. J. M. Gardhouse will sell by auction 35 head of Scotch Shorthorn cattle, imported and Canadian-bred, including the stock bul, Inp. Ardlethen Royal, Princess Roval, by the Broadhooks bull Baron Beaufort, dam Pauline 2nd, by the Missie bull, My Choice. This is one breading cannot be improved Canada; his breading cannot be improved on, and he
is a show bull from the ground up. II is a show bull from the ground up. He
is a red three-year-old, thick, even, melis a red three-year-old, thick, even, mel
low and well-backed. Other bulls to be sold are: Nonpareil Eclipse 55794, a two year-old, bred by John Miller \& Sons Brcugham, sired by Imp. Langfor
Eclipse, dam Nonpareil $\begin{array}{cc}\text { Eclipse, dam } & \text { Nonpareil Lady 2nd, by } \\ \text { King William. } & \text { This is an extra good }\end{array}$ bull, fit to head any herd. wissie Lad 65454, by Imp. Albert's Heir, dam Missie
of Springfeeld 2nd, is a yearling Missie another herd-header.
a484, a yearling Missie
Dunrobin Villager $\begin{aligned} & \text { 64847, by } \\ & \text { Queen } \\ & \text { 5th, } \\ & \text { timp. Lucerne, dam Village } \\ & \text { is a } \\ & \text { roan ten-months-old }\end{aligned}$ Queen 5th, is a roan ten-months-old,
Village-bred, and a show calf of a high $\begin{aligned} & \text { order. Right Ruler 65456, by Imp. Chief } \\ & \text { Ruler, dam Imp. Aggie Grace, is a aseven }\end{aligned}$
Res. months-old calf, the making of a show
bull, and $a$ herd-header $H$ Here is an ex. tra choice lot of bulls, every one of them females represert such choice strains as
the Noppareil, Missie, Rosebud, Ury, Fairy, Maggie, Undisse, Village Girl, Jit
Miss Ramsden, Verbena Miss Ramsden, Verbena and Orange
Blossom; the whole making Blossom; the whole making one of the
choicest offerings ever sold by auction in
Can Canada. They are all in fine condition.
All the cows and heifers old enough are
in calf or have of them are in calf again. A large num-
ber are heifers, from six. months to tw years of age, and several of them are
show animals of a high order. The bulk of them are the get of Chief Ruler (imp.),
whose full breeding will be in the cata-
loge he logue; he is now at the head of Senator
Edwards herd, and is among the best
sires ever used in this country. Dalmeny Maggeer (imp. in is a Mags.entry. Dalmeny
Wanderer's Heir, a big.e thick cow, by Wanderer's Heir, a big, thick, smooth
cow. Nonpareil 47th, by Royal Ensign,
is a two-year-old Nonpareil, an extra good one. Hear-old Nomber Sonpareil, an extra
sister to the great bull, the champio a halfohampions, St. Valentine. She has a
beautiful roan heifer, by Chief has a
princess pither Princess Pithivie helifer, (imy (im.), is an Uner.
Un-
dine, by Sir Wilfred Laurier; she is a big,
thick roan thick roan. Miss IIowie (imp.), a Miss
Ramsden, by Red Prince, has a grand
good bull calf at foot, by Chief Ruler. good bull calf at foot, by Chief Ruler
For a full description of the breeding
the herd, send for a catalogue. young stuff are fourteen heifers from six
months to two years of age. Among
them is Rosy Jilt 76217 a a two-year-old, (imp.).
Cherbena's Princess
Chief
Ruler,
closely
celaty carries the superior form of that grand
strain. A particulary choice heifer is a
seven-months-old (Orange Blossom, hy Chef-months-old Orange Blossom, b
Chief Ruler, the making of a show an
mal. The above is only a sample of th
rich breeding and indivita rich breeding and indiviluality of th
whole offering, and one visiting the sal
will not be disappointed iit the class

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bow
bred and ready to breed
bnd both nexes, the get of Masterpiece and and Juast the
Thing. An JOHN S. COWAN, Donegal P. O., Milverton Sta, SUNNYMOUNT BERKSHIRES.



 OAKDALE BERMSHRES,



[^0]:    herd. His dam (Calamity Jane) and gire's dam (Alta Posclh) in official test, averaged 86 Ibb. millk
    8 day, and over 26 Ibs. butter week, one of the greatest sires living
     tion at my annual public sale, last
    of February. None for that event, except bull calves not
    catalogued $n$ nor catalogued nor born yet. For par-
    ticulars see stock notes, in Jan.
    1Tht issum

