PUBLISHED EVERY WEEK. \$1.50 PER YEAR. HRMDRSADTNMJTH

Vol. XLIX.
LONDON, ONTARIO, DEGEMBER 17, 1914.

## The True Measure of <br> Value"SERVICE"



RROST FENCE gives the service you have a right to expect, the service you pay for. So do Frost - agents, the majority of whom have handled FROST FENCE for years, because it has always been dependable. They consider it the best fence for increasing their sales each year and securing for them a permanent fence trade. You'll find satisfied customers wherever FROST FENCE is used. They always get what we now offer you! VALUE AND SERVICE FOR EVERY DOLLAR INVESTED.

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The large stocks of FROST FENCE that are carried in almost every community make it possible you to purchase at the lowest prices, when taking into consideration the quality of the goods. Our dealers have FROST FENCE shipped to them in carload lots, and you get the saving thus made in freight. When you buy direct or from small dealers you pay this extra freight.

ROST FENCE purchasers get that satisfaction which good service gives, because our up-to-date mills produce wire specially for FROST FENCE manufacture. We've got to make our goods if for no other reason than to uphold our past reputation.
The machines which weave FROST FENCE are mone practical, and thus turn out better product. kinked lateral wires loos locks-no uneven how stays. Don't these outweigh the few per rod differenc

See the dealer rigl
ROST WIRE FENCE CO., Limited, Hamilton, Canada



A crackerjack of a Xmas present Remember when you were of thinking they don't feel the coma kid? 'The presents that were pliment.
all shiny and bright, and that Let one thing that meets the cyc of your litto all shiny and bright, and that $\begin{gathered}\text { Lct one thing that meets the cye of your little } \\ \text { "worked!" " }\end{gathered}$ Were'nt they the fir on Chirstmas Morning be that triple
nick
 Something for your room—something
you could $u$ se all year-something like $\begin{gathered}n \text { crackerjack? } 18 \text { that for rac to use myselif } \\ \text { Dig Ben is a crackeriack-of.a.Christmas-pres. } \\ \text { ent to give to any fricnd. } \\ \text { He's two presents in }\end{gathered}$ $\begin{array}{lll}\text { you could use all year-something like } & \text { ent to give to any fricnd. Hes two presents in } \\ \text { big people had in their rooms. }\end{array}$
 for those boys and girls.
Toys, of course, should never be
displaced. It wouldn't be Christmas comfy krys that almost wind themselves and a
deep, jolly ring that calls just when you want
and either way you want displaced. It wouldn't be Christmas every other half minute for ton minutes unless you without them. But mix in usefulthings
-things that develop pride and that make little people feel responsible. live up with. Don't make the mistake

$\square$


THE IMPERIAL LIFE
Assurance Company of Canada head office - toronto
Branches and Agents in all important centres


Sydney


Basic Slag
The Ideal Fertilizer for Stiff, Clay Soils

F we could call on you, Mr. Farmer, who are reading this
and tell you all about our goods, we would not advertise, but as we cannot make your acquaintance personally we are spending quite a lot of money just to get 10 interested.
We have goorls to sell which, if you will use, will recoup

WE MAKE MONEY BY HELPING YOU TO MAKE MONEY
$\qquad$ firm, and that our goorls are all we represent them to be,
otherwise this atsortisement would not appeat hore. If you



The Cross Fertilizer Company, Limited sydiey, nova scotia

THE FARMER'S ADVOCATE.



Warm Water for Your Stock In Cold Weather! SUSPENDERS
(Sold in appropriate Xmas box)
-Will please himMADE IN CANADA

## Rices's Salt

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## 

progured in all designs
an
Ridout \& Maybee

-This Christmas-

The useful gift will be
The appreciated gift
PRESIDENT The Celebrated Heller-Aller Down-Draft Tank Heater


THE HELLER-ALLER COMPANY, WINDSOR, ONTARIO


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Mill


Stop that cream leak NOW with a de lavat Cream Separator


 You may have less milk just now,
but with "old"" milkers and cold weather your cream lcss is greater
than in spring or summer. Cream is worth more now, too.
If you will test your skim-milk you will see for yourself that you can't
afford to wait until next ppring.
 35 409
$k y$
 lare par
 , traval pearest as direct for any deDe Laval Dairy Supply Co., Limited MONTREAL
WINNIPEG $\quad \begin{aligned} & \text { FETERBORO } \\ & \text { VANCOUVER }\end{aligned}$


Winter Term Opens Jan. 4th Become Thdetendentll Our Graduated
get and hhot good position
hhint owing to CELLIOTT Gusiness مlleate Yonge and Charles St., Toronto,

 W. J Elliott, Principal


LONDON, ONTARIO, DECEMBER 17, 1914.

EDITORIAL。

This is business war--Buy Canadian-made
goods.
Weed out the inferior stock at the beginning of winter.
Do not kipep live stock but make the lise s:ock
keep you.
The farmer who depends upon " luck" gener-
ally has "bad luck."
Waste no time in regrettin,
good now and in the future.
Remember that winter is a better time to cut wood than summer. Cut it now.
Peace may yet be just as reassuring in 1915 Straw is considered by good stockmen to be
The cheese factory is proving itself one of the most dependable mainstays of the dairy industry. Old timers tell us that our Winters do not come as early as they did sears awo, neither do
our springs. our Springs.
(ixe the boy a colt, a calf, a pig or a lamb
to feel and care for this winter and watch him
ont-dn hice from then cali day keaps the ceterinarian allay same for the colt. Thw. are those who claim that Indian Sum-
mer always comes in November. We think it was a month late this year. township, council should divert some of the wat
interest to other channels. This. Uhristmas season will be robthed of much
of th. Usual merriment but, the spirit of giving Thi. man who reaches the heigh of his ambitions ramely has his ambitions s.t on the top
mung ,if the ladder. The iarmer "out of a joll " is drifting into a
dangurous current composed of carclessness, list
lessumect lessumb. laziness and ineflicioney which may
swamp.

 nuch dirty glass. different problems which come up in working out
 jdeas. Thure is no place where they have a better from thent afford to "run" the land because

The Farmer's Advocate AND HOME MAGAZINE.
teic liadna agricilitural journal in the
Pablished weekly

## JOHN WKLD, Manager.

4. the farmers published every Thursdays AND HOME MAGAZINE ia
It lis mpartian ind independent of all cliques and parties,






 1. THE Wil

-. WHEN MA. REPLY BY MAIL IS REQUIRED to Urgent
a. orine side of the
 4.






ing years, the terms of the lease making it sary for him to reap in after years the results of his labor or his folly in former years. The a point each tle more than he takes out of it in cropping it variably makes the most of his farming operations landlord desires he the class of tenant that the gets this kind of have on his place. When he gets thity and putting forth his warrant him going ahead farmer in his neighborhood. Lonts to be the best would do a great deal for the fermed lase operated year after year under a leasing system.

## Subscribers, Attention!

## The Farmer's Advocate wishes to advise

 all its many subscribers against the all too common practise of paying their subscriptions to this paper, renewals or new names, to parties not authorized by the publishers te accept such money. Editors and representatives of small-town local papers, and postmasters are not authorand parties paying their money tocate" must do so at their own risk. In orler to keep a check on all subscription work we would also ask our subscriber watch the date on the label of their paper and see that it is properly changed when remittances are made or subscriptionpaid to our agents. This is important.

If you have had any valuable experimine our ing the past season, give our readers the luyng,
of it by writing an article for our collumn of it by writing an article for our columns.
a practical farm paper we want the ideas of

THE HORSE.
Follow the British Horseman's Lead.
Over in the Old Country, which is recognized
stockmen practically the world over as the by stockmen practically the world over as the breedars are laying plans to increase the number of folls raised another season. The war has taken a heavy toll in the horse breeding industry oi
Britain, but, fortunately wherever possitle Britain, but, fortunately wherever possitle the
mares have been left to raise their colts and the future of the industry is assured. In Canada, there is a great deal of pessimism due to the fact that horse sales have slowed up very materially.
Our breeders might well, we think, take a leai out of the British horseman's book' and put forth every effort next season to increase the number of foals raised. It may look a little precarious at the present time when horses are not moving
very rapidly but the time must come within the next few years when good horses will meet as ready sale as they have done any time within the
past decade and we have sean sole past decade and we have seen some good prices
and a brisk trade in that time. The thousands and thusands of horses whiche. are being thousands to
the front will never return to their own work the front will never return to their own work
when peace is assured. Their places must bee filled by other animals. Almost all trade has bepn
affected by the war but when the wat in militarism crushed, economists the war is over and that af er a few years of necessitated depression excellent
times are ahead sion will be great, all kinds of husiness will boom more horses will be required to carry on this
business and as a consequence the horse business will benenit.
winner. Than who looks ahead is generally the the horse market has everye anothod of depression in horses and there soon is a scarcity one brexds increases the demand which invariably shoves up the price. Notwithstanding the fact that there
are a large number of saleable horses in this country and horses which are on the mar'zet, we business should not be pushed another season that
thos? now haver may reap the benefit of the enhanced brood mares must come as a result of the dopletion of the woold's horse supply by the dreadiul slaughter in
Europe.

The Development of Horse Warfare
Horses were used for war in England long be fore the eleventh century. Cassiar when lee
invaded the country, found that the war chariots, and every, evonone is fame the islanders used with the story of the heroic everyone is familiar
horses used with the
Boadicea.
But the horses used were very small, and this is probably
one of the reasons why chariots breed, native to the country was howed. The proved by the importation of Roman stallions. The Teutonic tribes, who settled in Great
Britain in the fifth century, were ossentially san men and foot soldiers. This is shown by ten
Anelo-Sane
 so rare to 'ind horse-bits and trappings as well. nation of horsemen, and that they were accustom-
ed to fight on foot. What horsse the us d for pack animals, since horses they had where
done by oxen. In fact, at a very was always date, in Wales there existed a laws forbidding the later
use of horses at all for
At the battle of Hastings, the English army ought on foot There had not been wanting my posed to this manner of fily days, who were op-
that the Aormans across the use of cavalry and arcoss the Channel combined this tactical development was vieved in this
counctron with soms dismay In the middle of the
cieventh century the caltain of hereford dirccled his coliowers to serve on horsm nartat on the Continemt them to the wanner of have. 1 in whe which 8 emis to have a mothern


Durazzo. True to their tradition they dismounted and fought on foot. Not a man escaped alise, and nearly three centuries passed before infantry,
unsupported by cavalry, made an attempt
stand in the stand in the open.
It was therefore due to the Norman Conquest
that cavalry were first used in that cavalry were first used in England for war, and the requirements of the great war-horse did
not changle throughout the age of chivalry. The favorite breeds were Spanish, and thise io their turn were derived from the inter-toreeding of the European horse with the Libyan or Nortb African horse.
During the
war-horse was a necessity in all warlike
tions. tions. From very early times men had been accustomed to wear some form of defensive armor, and so the large breeds of horses were
developed. These horses, as one might expect, were capable of carrying a very heavy weight. A man fully armed, and his charger protected with armor, imposed a burden of not less than 32 very heavy-weight hunter is expected to carrs
nowadays. nowadays.
Horses
Horses of the right stamp were very scarce in
England through all the age of chivalry of our kings tried to remedy the deficiencies in various ways. King John imported 100 Flemisb the modern cart horse. But Edward III wation of first of our rulers to study seriously the improvement of the English horse, and it was in his reign that breeders began to cross the heavy Eng.
lish breed with horses of a lighter structure and of greater speed. The King imported Spanish horses, paying 1,000 marks for eighty animals These arrived safely in England at a cost of $£ 180$ each, reckoning in the money of to-day. He also
improved the native horse by forbidding their export abroad, as apparently even then foreigners improved their horses by importing English blood. Edward was at one time in debt to the Court spent on horsps, insisting on having the best of horseflesh, whether he could afford to pay for it
or not. But, in spite of his efforts, the Englisb cavalry in the wars of 1346 were badly mounted, bought for them.
VIII., little is known er eign to that of Henry English horse. Henry VIII. development of the Turkey, Spain, and Naples, and he enacted laws or the improvement of the native horse. Each park-owner had to keep from two to four brood
mares not less than 13 hands high, and no stalmares not less than 13 hands high, and no stal-
lions under 14 hands were allowed for breading in the commons, chases, and forests; no stallions
under 15 hands were allowed to run free. Geld-
ing was introduced about this time. In Elizabeth's time there was still a scarcity of horses, and in 1588, the year of the Spanish Armada, only 3,000 horses could be mustered, and these were said to have been strong, bulky numals, Slow in action and only fit for agricul-
ture or draft, and very indifferent chargers. It was a penal offence at this time to $\mathrm{ma}^{\prime}$, e over a horse to the use of any Scottish man." Coaches out a new stage in the history of the English horgs.
Blundeville, writing in 1580 of what he conbarian in his list, and says the we commonly call Barbarians do come out of the King of Tunisland, out of Massille Numidia, themselves very swift and able to marse a but carmere, which is the cause why we esteem a long
them so much. in improvintern horses soon produced their effict of Charles I's native horses, and in the middle
of Cign th re were considerable. numbers of horses of the hunter type in England; it was on such horses that Cronwell managed to
mount his Ironsides, at a cost of sime fis for each hors 2 . The great. Protector knew his husinese well. There is a letter from him, datrd November 11th, 1642 , which must remain a model for the "" Dear Fripnd,-Leet the saddler see to the horse gear. I learn from one many
are ill-served. If a man has not good weapons, horse and harness, he is as
nought.-From your frimd, oliver (rom ('harles 11. Was the true founder of the sstere horse of to-day. He sent his Master of the llorse
to the Levant to buy mares, principally Turks and Barbs. The influence of the Lybyan horse
must still be noticed. The mpsult of these pur
chases were the celebrated roval omares. from
which our racehorses are for the most descended.
In William II.s reign the first of tho three
most celehrated Eastern sires was imported This most celehrated Eastern sires was imported charger
horse was the Byerley Turk, and was the chat in
of Cartain Pyerley in King Williom's wris

there has always been between racing and soldier-
ing, to which our army owes so much. But it is thought that few soldiers remember when they go to Epsom or Ascot that in all probability they charger. A fears later, two other stallions were imported, the Darley Arabian and the Godolphin rabian. phin Arabian was a success at the stud. In 1731
he was used as teaser to a horse named Hobgoblin, and when the latter refused to serve a mare called Roxana, she was put to the Godolphin
Arabian. Her first foal by him was called Arabian. Her first foal by him was called Lath,
and was one of the most celebrated raeehorses of
the day. the day.
The great war-horse served his part, and
gradually disappeared. His descendants still survive in the cart horse, in the State coach still surand in the black chargers of the Household
Cavalry. As the need of swifter horses for war Cavalry. As the need of swifter horses for war and for pleasure arose, so the modern types grad-
ually developed, the racehorse and the hunter deriving their size and strength from tho old aative strains, and their beauty, their courage, and their endurance from the Eastern sires.

## LIVE STOCK.

Butchering and Meat-curing at Any Season.
Editor '"The Farmer's Advocate"
"Say Carter, is it so that you kill a pig any
time ,you need pork whether it be winter or sumb "Yes."
"Well, how do you keep the meat from spoilWithin the past year so many have spoken thus to me, that I am led to. believe that my
recipe-which is nothing more than, salt, cleanliaess and care-may be welcome to the neaders of "The Farmer's Advocate." If I may say a few
words before I begin, let me say that he is a poor, shiftless farmer indeed who in summer fore his hogs to wallow leg-deep in filth, slaughterhouse style, when a few hours' work and a few dollars spent in posts, lumber and wire will en-
close a plot of grass a hundred feet square in close a plot of grass a hundred
which they may move in comfort.
Whenever I need pork and the knives are sharp ¿butcher, no matter whether it is 90 degrees in weather I or not. To be sure in real warm ning that I finish merely by dark, then, if the
fies are still a iies are still numerous and buzzing about, I pin a thin cloth about the carcass to keep them from
blowing on the meat. When about to butcher, one should dress for the occasion. One's clothes, however patched and laded, shourd at least be clean. When properly
attined, I arm myself with a butcher-knife and a
loaded open the gate and rifle and go to the hog lot, one of the two or move the hogs about until any selected as being ready to butcher and have
marked along the back with piece of charcoal (this is easily done when the hogs are being fed) to avoid a mistake, walks
out of the enclosure. I then close the gate and out of the enclosure. I then close the gate and
when the hog stops to partake of a handful of meal, a few potatoes or such feed, which "to halt his trot'" I have placed for him a few fapt outside the gate, I take aim at a point where lines, if cross obliquely from the ears to the eyes, would
that shoot him down. Care must be taken that the hog's head is well up when the trigger is pulled, otherwise the bullet would pass downward and below the brain. If the shot be well
directed the hog will drop and for a few moments will struggle but little, thus allowing plenty of time for sticking him.
At this
At this point let me explain why I use the
rifle: (1) It is more humane. (2 It saves time
by elimine by eliminating the racing and chasing. (3) It is While chasing the hog or getting kicked, scratched keps down the temperature of the hog. (5) It prevents a display of stubborness on the part of
the hog and temper on the part of the butcher. the hog and temper on the part of the butcher.
Thus the work commenced in order, is conducted in peace and ended with the butchers in good
humor. As any pounding of the hog while catching him
or hauling him about while there is a kick in him.
blackens spoil I do not stir him makes it more prone to then if a light hog I turn a whel-barralw on its
side and roll him into it, or if a heavy pig, side and roll him into it, or if a heavy pig, I
roll him onto a stone-boat and convey him to where he is to a stone-boat and convey him to
Th.. full to and scraped. or kettles of a wash-bor is sufficient to scald a rig
it on facing under some building etc., and sotting scraping table it has been arranged to have the
it scalding and scraping table I
hanging post within four or five inches of the side placed on two blocks 20 inches 15 inches wide, of the plank and a couple of feet nearer the barrel has been used for such purpose for the past 15 and beneath the plank pace top of this block years and is still sound. When butchering is a foot thick. Wraw the pig back heels first until
over it is thoroughly cleaned and place blocks outside the wood-shed door where it two his neck is opposite the post: stand him on his tank seat, washing table etc. For a scalding. the gambrel stick over the difficulty in alipping tank I use a 45 -gallon vinecar barrel slanted ing post is an 8 -inch ironwood sunk 4 feet in the couple of inches beyond the block. Four small- west, ${ }_{5}$ feet 8 inche bored through it east and sized blocks, one placed at either side under ard this hole there ine from the ground. Through against the chimes, one below and against the crow bar. If the wind be from an aeceof $1 \frac{1}{4}$ inch


Lady Irene.
Sire, Ganymede; dam, Bloom of Ironsides. Firene. First-prize yearling filly at London, bottom and one ${ }^{\text {en }}$ on the under side against the pig is being scalded. remove the plavk from the block furthest from he barrel. A roll over places the pig uilon it, then I pull the pig down towards the barrel end
after which the plank is easily restored to it Cormer position. A handful of ashes is added to
the scalding water and the pig, while being scald ed, is kept on the move. A good scald results and in removing the bristles the thin outer laver skin on, otherwise Never leave this tissue-like
the pork is liahle to tast strong and will be harder to cure. A couple of
horse-shoe nail boxes weighted each with a brick


Two Good Ones Hung.
and placed, one at either end of the hog, will serve as usestles. Wipe the knife on the edye of these instead of on the overalls, grass or table a slovenly procedure bound to make cleaning up
all the harder. Right here let me say the re should be a cleaning up, as a sight more disgusting than a lawn or chip yard bewhiskered with tlood-and
slough-clotted bristles, is not easily imagined. a lach-clotted bristles, is not easily imagined.
sloughter the scraping, the next thing is suspend
Aiter
you till a little past
midnight, but satisace. Cut the hams and the shoulders and remove bones. The same meat of course will cling to the penetrate the thick hams and the shoulders. Salt the meat heavily and place in a wooden tub or half barnel, skin side down (salt has a chance to soak down into the meat) and the sides placed
on top of the hams and shoulders (the weight helns to force the brine out of the thick plight
and cover with paper or thin cloth to exclude and cover with paper or thin cloth to exclude
flies. Let it stand a day and a nicht to brine off: then remove the meat : pour off the brine :
clean the tub: sorinkle some salt in the clean the tub: sprinkle some salt in the brine :
of the tub : rub the meat lightly with dry salt : of the tub: rub the meat lightly with - dry salt:
replace in the tub and again cover it. In leso replace in the tub and again cover it. In case
it brines again, which sometimes happens, repeet
the above. Sait the bones the same as the meat
and place in a crock by themselves and handle and place in a crock by themselves and handle
them the same as the meat. Keep the cellar windows down in daytime to exclude the heat and
up at night to allow the cool air to enter. Overup at night to allow the cool air to enter. Overhaul the meat in the course of a wrek nnd if therel
is any sign of mould or, if it feels slippery, rub lightly with dry salt, enough of which perhaps is still adhering to the meat. This dops not apake
the meat salter but merely helps to dry it. Owthe meat salter but merely helps to dry it. Owing to May, June, July, August and September
being warm months I nemove the ham and shoulder bones when butchering, at other seasons I do not. I do not use ice in the cellar. I have
screens on all cellar windows, outside doors and
windows windows but yet $I$ find it absolutely necessary to keen the meat covered as one flv mioht sooil the
whrle tuhful. whole tuhful. The above method of butchering and summer curing of pork has been practiced on
this place for the past thirty-two years and has given entire satisfaction. A friend of mine who had but recently adopted this method told mo
that his wife liked it and so did his children, but he didn't. When asked for his reason, he said: "well, it is just this way, the pork is auch an
imnrovement on the old rustv variety that we eat a nig un in a trice, conseouently it is exnensive, a niq un in a trice, conseauently it is expensive,
and with a broad grin-still I quess rinl put up
with the expense and I'm mighty glad you put me wise."
Middlesex

ESLIE, CARTER.

## The Autumn work well comnletpod should mean

 inring work advanced next Anril. There is aia con to be put in and Spring will sunely be

## Abortion in Cattle.

Abortion is the expulsion of progeny at any
time bofore the completion of the full period of a time before the completion of the is or period of ad
normal pregnancy.
accidental posidibe to distinguish one sort is proctical. y im
although causes difier widely although causes difier widely
accidental or non-Contagious
abortion.
Causes.-Poor condition, we
such results of poor nutritionss, thin blood. 2. The depletion of bodily streng
worms or excessive loss of blood. kidney troubles or indigestion.
4. Putrid drinking water, ergot smut Putrid drinking water, ergot or gras 5. Falls on smiooth planks ano concr te floors icy yards, narrow doors, riding othtr cows, ana
in any other way straining muscles of hind
ind uarters.
deep sutands with a too great slope to rear, or carcasses, dead foetus, aftesence of birth and such, dead carcasses, dead foetus, afteroirth and such.
ially it in putrid condition. 8. Irritating poisons, 'powerful purgatives, which derange the dificestive system and induce
abortion.
Treatment.-Eliminate Treatment.- Eliminate causes and place in
quiet stall. If foetus has not died, nor water quiet stall. If foetus has not died, nor water
bags been presented, administer laudanum in 11 to 2 ounce dosesentedenending on size of cow) and re-
2 out in three or for for hours should labour pains recur. If laudanum does not give permanent results use Extract of Black Haw (Viburnum ${ }^{\boldsymbol{L}}$ runi-
foliump), ( 40 grains) every three hours for
day. in cases where the cow shows first signs of abortion, the writer has had good suc ess in mixing it tablespoonful of Black Haw with me. .
feed morning and evening and continued for a
aeel week or longer if necessary.

> Contagious Abortion.

Contagious abortion is the scourge of the stockman. This dis ase is seen where a cow con-
tinues to calve prematurely year after year with inues to calve prematurely year after year with
no apparent external cause, or where no apparont external cause, or where a large
number of cows, all bred to the same bull, calle prematurely, or where cows in direct con act with a cow which has previously calved prematurely,
in turn also calve prematurely. disease and easily contractured by healthy indivi-
duals. The germ lives on the lining duals. The germ lives on the lining membrane of
the womb, causes catarrhal inflammation which the womb, causes catarrhal inflammation which
in turn causes expulsion of foetus. Causes.-1. The germs contracted from bulls which have previously served diseased cows with infected cows contracted by rubbing rumps fence posted cows, or bor beding previously with doorway,
fubbed by in fected cows.
3. The transferring of discharge from infected
individuals to healthy cows. hy means of individuals to healthy cows by means of hands or 4. The presence of dead foetus, afterbirth, or
discharge on treding, manuru discharge on redding, manure, or any place
where healthy animals may come in contact with
I. Unless freshly infected cows are introduced th digsase etenst to run out inw a herer int in the the course the
of three or four years. of three or four years. It frequently happens that
sterility (barrenness) follo ows this tist dition thourrentess) be follows this disease, a con-
diterine contents caused to the acid state of the uterine contents caused by the germ.
Symptoms.-Cows may abort at any stage pregnancy, but it usually occurs during the third
or seventh month. As a rule, the sym a seeling of the udder, a rule, the symptoms ary
discharge from the genitals, a decreassh, und urulent

 time before the date of expected calving, when
the stockman is suite surprisad to fond showing simns of heat.
The imprtant thing is to distinguish the
early symptoms thin early symptoms so that the tentoncy may the
arrested and the calf curried full time if possilit.

The cow is dull, sluggish, separate from the fusability throughout the animal's systen herd, chewing the cud languidly, frequently lying appear to give it some distinct advyantages would
down and and tail; the pulse and breathing fast and muzzle dry. ne another at intervals of from one to five weeks. methylene blue, a remedy for
During the past twenty ycars many various cure for contagious abortion. The latest material at and one which gives promise of most pronounced
success to date is methylene thu a.tention is drawn to the fact that purchasers should not confound this material with methyl Miue and in purchasing the methylene blue should actain only the highest grade of medicinal charat no experiment stanuon has there been such comp plete work with this treatment as at the Ver-
mont Agricultural
Experiment
 conducted this work, carried on extensive experiments in the bacteriological laboratory and ex-
tended this to an actual trial tended this to an actual trial of this material
with a herd of nincty-two infected $\mathbf{r}$ sults of his experiment for the fows. The
month months were most strin ing. Only one an.mal of
the ninety-two infected abor the ninety-two infected abor' ed during the nine
months, and during the same period fifty-six of
these calved months, and during the same prriod fifty-six of
these calved normally while thirty-five appeared
in naturat in natural condition five months or more after being served.
Based on
experiment, a somewhat of the above mentioged started on the Experimental Farm, Ottawa, in
the fall of 1 ind the fall of 1913 , Cwing to the lact that seven
cows and heifers had ated the same year, the test for abortion to these and other individuals suspected, togel hap with all individuals in the barns associated wi.h and casess As this test for ajortion is a long
and difficult one, it was considered advi-able to
treat the whel treat the whole herd until. complete results agglutination tests were discovered. Fifty-tw cows of the five dairy breeds were at first treated.
During the nine and a half month During the nine and a half months following the
ini iation of this test only one cow has calved prematurely, which in itself appears to warrant
the use of methylene bue Che use of methylene blue as a preventative of
abortion.
During the months April to tuly clusive, of the year 1914, only such cows as ha previously aborted or responded to the agglutina
tion tesy ion test were fred methylene blue, Although it
is too early to draw definite conclus. may be stated that four cows which abor' yed it 1913 have not only carried ther calves the nor mal period, but have ceassd to re-act to the tost,
while three cows and one heifer apparent reasons been sterile heifer which had no calf and are now nearing their normal period of gestation. internal treatment.
Fxperimental Farm of the test on the Central the feeding once per day for the first sultined was of each month, throughout the period of gestaion, of methylene blue in the powdered form in
onehaif ounce doses mixed with ensilage ever, owing to the resul's of further experinmonts conducted by Dr. F. A. Rich, this treat ment has
been changed. The heen changer. The method of application has now
advocated is as follow. has either aborted at her last calving or which gives any evidence or suspicion of be ne infected,
one heaping teaspoonful one heaping teaspoonful or more of mothylene hline
once per day for five continuous weeks. We have discovered that considerable waste is is in olved
when the powder is scatterd over the
In up othisequence it has been found advisahle to put
uttes. Anantity in ono-half ounce gelatine canantas. Another method which may he followed
with equal economy would he the
 How mothylene tenney Rlock, Madison. Wis
unders dons Hecs aftur frediny a lawe portion that thirty minfoen iound manve time liood. Mrithyleno rlue? has ir other disinfocctants in thener than cartolic acid

other disinfectants. If fed in large quantities milk and even the meat of an an anden color the out injurious effects. In of an an, reganal, yet withe-
dose the effect is to color the halion half-ounce dose the effict is to color the urine slighally prean and the manure slightly blue. From this it
might be readily surmised that the stom might be readily surmised that the stomach, in-
testines and kidneys, together
with external passages, would bo thor oughy whith the
ed, thus preventing the spreading ed, thus preventing the spreading of the asortion
germ from one individual to gnothe seem to point also to the carrying of the Results fectant through the progeny in u pro and the
surrounding membranes. surrounding membranes.
The size of dose has absolutely no ill effect
upon the cow, the above recommen ted dilose ing been largely increased with certain indive hav and the only effect noticed being the stimulating patite.
external treatment.
Coupled with the above descrited feeding the
following precautions must be ta en . (1) After aborting the ften
and all infected bedding should be the foetus deeply buried. The hind parts of the cow should be careauly sponged with a one per cent. lysol
solution or ten per (2) The stable should be throughly cleaned ity of the calf pen or stall "here abortion occurred. Probably the safest disinfectant is a
solution of one to one theus loride given in three one thousand mercuric bichIf this intlermittent disinfection in in inossible,
double the strength of the above mentioned solution.
(3) Immediately after aborting, give an intion consisting of a heaping teaspoonitul of solulene bue aad one ounce of salt to a gallon of
boiling water. the whole cooled to about 105 degrees F .
affected The sheath of the bull used on any cows ne wash with abortion should after exch service above mentioned methylene blue solution,

COST OF METHYLENE BLIUE.
\$2.75 phat material in the powdered form costs Attention is again called to the compressed (Bluett) form, which is more economical due to less waste in feeding.
black haw to prevent abortion. Although this treatment is by no means recom-
mended for the killing out in the cow er cals ing out of the abortion germ in the cow or calf, as in the case of methylene
blue, yet it has been found possible to hold off an bortion for some days, or possibly w.e's, by the feeding of an internal astringent. In cabes where cows show symptoms of calving before
their time they have been placed in a dark and yuiet stall and given one ounce dosses of Black Iavv (Viburnum Prunifolium) repeated, if necesSary, after three hours un il the pains subside. ing is premature, thus indicating abortion, one Ounce doses daily for a week have in many casss been effective in bringing back to normal the
vulva and the pin bones.
However, it is advisable that care be taken with this treatment and that it only be used in cases of energency.
S. ARCHIBALD.
Dominion Animal

Counsel for the Winter Feeder.
The cattle that have this fall gone into the
stall or feedlot for winter feeding vary in condition. Some are thin, while others are fit already. Those that were subjectII to poor pas-
turage will require different treatment fron those ofie good grazing land augmented, perhans, by ab
field of rape or second-growth clover or alfalta. This article does not aspire to discuss the
 deductions as to costs and prolable profits which might accrue from different metl
times of high-priced feeding stuffs.

must be fed in accordance with the rules of nature
and science or loss will result. Howe er, the fat return profits on a superEuous amount of prutsin when it is carbohydrates that, he requires, neicher
will carbohydrates alone start the feeder off in a will carbohydrates alone start the feeder off in a muscle, blood and a general upbuilding. Only as
we understand the animal and its requirements we und fetd with wisdom. The long-experiented
can we
herdsman may have no conception of what pro een herdsman may have no conception of what pro celn,
carbohydrates and fats may mean and he has no that a qertain animal rejuires something containd in corn, in roots, in silage or in oil-cake meal. He feeds each as the results warrant and
accomplishes his purpose but when he comes accomplishes his purpose but when he comes to
substitute a cheaper food for one of high cash
value he is at a loss to suosticute a cheaper food for onf of hish cash
valuss to know what affect it will
have. wherein 1ts usefulness lies, and what the have. wherein 1ts usefulness lies, and what the
result will be. Herein lies the value of a know-
ledge of result will be. Herein lies the value of a know-
ledge of teeding stuffs and the terms applied to
them.
The first matter to engage the herdsman's attention is to get the stock on their feed and
make as easy as possible the change from pasture
to stall conditions. is available each should have a good supuly hay feeder need be afraid of feeding generously of this
product at first for the poorer grade of hay or product at first for the poorer grade of hay or
straw will be better relished during the snappy days of January and February. Silage would be preserved and should therefore be used first. The
long
longer there is sure to be a few days or a week or two in the spring when the cattle are bawling for the better in such a time than a fow feet is nothing Again the stock is probably laying on flesh, or if immediately after going into the stables, they will be at a stand-still. In either case a fair for the muscular tissue must be built up and the body strengthened in preparation for the laying on oi fat. The bones, the body cavity and the fibers of the muscles themselves receive the fat, with good muscling or, in other words, nice pven distribution of fat throughout the fibers of the muscles. To make a firm, desirable carcass it is necessary then to have a development of flesh
rather than fat as \& foundation and for this some
protein is requen protein is required.
cattle claims that and authority on feeding pounds of carDonydrates and of protein to s.x the way for a thin steer being brought to his feed This would be supplied in 40 lbs. corn silage,
10 lbs . clover hay, 30 los. mangels, 4 l.s. bran, 10 lbs . clover hay, 30 los. mangels, 4 l.s. bran,
3 lbs. oats. and 1 lb . oil-cake. On close observation the reader will see that this amount is rather
large at the beginning for in it are 8 lbs. of large at the beginning for in it are 8 lbs. of
grain in addition to the roughage. It is better suited to a dairy oow and is only given here to
show the combination of feeding stuffs that will give a nutritive ratio of one to six. This would be an expensive ration and somewhat out
of season.-Let us try and adapt it to earlyof Season.-Let
winter feeding.
of the beunds of roots we would change the number done for reasons and silage fed. This would be serving silage for spring feeding. Some of the and the oil-ca e meal by cotton-seed meal. With roots and silage the bran seems un-necessary
cotton-seed meal is cheaper at present than oil cotton-seed meal is cheaper at present than oil
cake meal when we consider their composition. The former contains about 30 ther composition.
pend protein,
and the latter about 377 por cent. For these and the latter about 37 at per cent. For these
reasons a ration combined from 30 lbs. silage, reasons a ration combined from 30 lbs. Silage,
7 lbs. hay (clover), 6 lbs. oat straw, 40 lbs.
roots, 3 . roots, 3 lbs. oat and barley chop and 2 lbs.
cotton-seed meal should be better suited to condi-
tions tions this year. This ration would have a nut-1
tive ratio of one part of protein to about six and
onehalf onve ratio of one part of protein to about six and
one half parts of carbohydrates and fats ma ing
it at the same time cheaper and almost as efe it at the same time cheaper and almost as eife-
tive as the one previously set forth. It is claimed however, that an animal should not recelve mo
than two pounds of cotton-seed meal at any time
and in fending this receive a quarter of the amount of cotton-s ed
meal mintioned at the beginning, bringing him up meal mintioned at the beginning, bringing him up
to the total in a week's time or more. Greater
objectiont breedings are urged ard ainst this meal with the
influenct influence the animal for slaughter in any way that
will impair the herd. Withal, one should be care-
ful ful but when fed in conjunction with the other
feedinur stuffs making up this ration there should
be no be no danger. The reader should bear in mind
that these are only arbitrary figures and the
total amount fed must alwavs depend upon the individual animal. When When of the same size one
will often consume more than another and there is such a variance in weight and size of feeding
steers that it would be impossible to stipulate the proper quantity to mote out to them. However, the quantity to mote out to then wow under consideration would
meet the requirement of a twelve to thirteen-
may be decreased. Ketlle, the amount of protein
grown and mature grown and mature fattening cattle the nutritive
ratio should not contain less protein than part to ten or twelve parts of caroohydrates one
fats. With this go wrong but Jordan mentions a in the digestibility of the whole ration wherrease than one part of protein is mixed with where le is the parts of carbohydrates and fats. By dropp:n ration under consideration and feed meat of this place three more pounds of chop fwo of oats and
one of barley) the one of barley) the ration will then contain one
part of protein to nine parts part of protein to nine parts of carbohydrates
and fats which is in accordance with the teaching
of investi. of investigators. If three pounds of corn be add ed instead of the extra three pounds of chop the of protein but not enough io unfavorably antage the ration. farmer usually has hations hand to show that the to good advantage. However, stof the stock arefer to feed a little oil-cake meal at the last to add a gloss or finish to the animal. This may be of cotton-seed meal this year as are in favo

## THE FARM.

Idle Days.
By Peter McArthur
There is a red squirrel in the wood-lot for ing. Every time I drive past he scips about on
the trunks of the trees the trunks of the trees or flips his tail and show of wrath. But it itsn't wrath. Heems a great
talking down talking down to me-telling me that he is jus as good as I am and perhaps a little better. Th
beeshnuts are very plentiful and he has a beennuts are very plentiful and he has a granary nest in which he can be as snug as a bug in ar rug and he doesn't care whether school kee s for him-days when he can lie in his holididay and feed high on beechnuts and dream of the summer days to come. No doubt he thin'ss that like other human beings I am worryin $\gamma$ about
work and crops and the high price of feed and that is why he chirrs at me in such a superior way. But that is where he is mistaken. This winter I am just as comfortahle as he is and I
can share in his feeling of contentment. Betwern he granary and the stacks there is enough for man and heast, even if the winter should last intil May. So when the red s~uirrel chirrs I feol like chirring right back at him. He mav be to foresight, but the resuit is the same and I I
to



With the British Army on the Continent
at a fair price has now advanced them fifty cents Smith is right. He quotes letters in proo
a barrel on the chance of ours not coming at all. originals of which are in Dr. Young's files
And the other interestr And the other interests-their name is legion machine man, the mortgagor, the real estate dealer, the baliff,-with the doctor and the und r taker trailing along in their wake. All must have a bite before we can take any apples hom
to the kiddies. So, Peter, don't roll any apple own the hill. sos. Leave them for the old sow.' There is, some food for thought in that lette that you can chew over while sitting by the fir

Here is an indignant letter from Edmonton
"It seems perfectly absurd to have to pay
uch awful freight and express rates. Well, it is such awful freight and express rates. Well, it is
too much for words. We got a barrel of Georgian Bay No. 1 Spies for $\$ 5.50$ delivered to the cellar and we are having more "Apple Delights" than George coster ever dreamed of. A think he might oad rates for the people. But no doubt it is Apple Delights.
I wonder if they haven't heard out West yet
that they should say Sir George Foster when hat they should say sir George Foster when speaking of the Minister of Trades and Com-
merce ? thought, for it suggests a certain amount of
Western indignation that may yet bear fruit Western in

## On Karakul Sheep.

ditor "The Farmer's Advocat
Several live-stock men and government expert have sent mop copies of your issue of October 8th Smith, who has variously ascribed his residence to Oregon and several other states. but neally is in the employ of the Kansas Agricultural College,
and L. M. Crawford of Topeka, Kansas as advertizing agent for the latter.
There are several other points in the letter
which I would like to elucidate. L. M. Crawford America.C. C. Young is the sole importer. He imported
in 1908 , in 1912 , and again this year for the Dr.
C. C. Young. Karakul Sheep Company of P. C. C. Young. Karakul Sheep Company of P.E.I. Crawford bought no imported rams whatsozver.
He purchased descendants of the first importation trom Dr. Young in 1912. It will be noted later, that only one ram of the first importation conThe head of that lambs of commercial value. write. He died on June 5th. 1914, and was never owned by Mr. Crawford
These matters of history are of little comparasecond paragraph is true. He says that Mr. Craw ford's lamb-skins were priced by New York furrier at from " $\$ 3.00$ to $\$ 10.00$ each." That would imply an average price of six or seven dollars per bikis, and would be more profitable on a pelt We challenge Mr. Smith to publish the New York turrier's signed statement. We ourselves, have fet the prices at from $\$ 5.00$ to $\$ 12.00$ each which
first took the first took the precaution to have the United States Government's mark on the skins. Som of Mr. Smith's statements may permissably be
doubted, when his article is illustrated with cut of a lamb from our flock held by Joseph
Simonson. Can it be that Mr. Smith is unable to show the photograph of a wavy, curled lamp crom Mr. Crawiord s flock?
It might be well to find out also from Pro is true. Dr. Nabours is known to stated above as an honorable gentleman. He was in Europe what he saw, and what Dr. Young's position the Karakul, sheep industry is, in both America and Russia, even though Mr.

1 bred the pick of the rams of the firat an second importations last year to full-hlood Kara-
kul ewes, and to common breeds including. Lincoln sheep from the same flock of which Mr. Smith speaks. I have spent much time studying the fur
business, and particularly perfecting myself in judging the wholesale prices of Persian Lamb fur
in such houses as that of Theodor Thorer of New in such houses as that of Theodor Thorer of New
York. I think that the average wholesale value of the $\$$ skins of the Lincoln-karakul lambs wh would not justify the prices mentioned by Mr Smith for half-bred karakul rams, namely $\$ 300$ on as they would assuredy throw lamhs worth oml might be black. All Persian Lamb fur is dyed any case. I have
cam lambs as a wh producers of Persian Lamb fur, and have slumer ered all whose skins were judged worth lims $\$ 9.00$. These will
offers them for sale

## Still Assjsting Tile Drainage.

 war a report gained some circulation that the Ontario Government would discontinue loans to the close of the war. Drainage Act, until after Minister of Agriculture, the Hon. Mr. Duff, to say Minister of Agriculture, the Hon. Mr. Duff, to saythat such is not the case and that loans under the Tile Drainage Act are being made as under As a wrong impression has been created by these erroneous reports it is thought best to explain
the situation clearly. On Nov. 4th, the Hon. Mr Duff wrote me as follows :
ago in regard to loans on drainage a few days advise you that the Government will continue to grant loans un tile drainage applications. The rate of interest will be 5 per cent. as fixed by
the legislation of last Session. This, as you readily agree is necessary owing to the fact that the Government has to pay that rate for its loans mistake passed their Sy-laws at the evidently by 4 per cent., and these had to be the old rate o the loans were paid out. This was probably the foundation of the report that the Government had discontinued payments on tile drainage. I am pleased to be able to state that this is not the case. The Government, however, is not purchas
ing municipal drainage debentures at the presen
time." It is also probable that some confusion aros wrote the Provincial Tresurer' On Sept. 30th, ing "" whether the wap is likely to interfere witb loans under the Tite Drainage Act." The answe was: "The Executive Council does not approve of the purchase of drainage debentur s at th
present timie." I naturally thought this included the tile drainage loans about which I had written and, consequently, informed some enquirers tha tile drainage loans were discontinued. I can
readily understand how the same confusion have occuryed with some township councils. Whatever the origin it is gratifying to know drainage loans are being made as usual.
M. H. DAY, Professor of Physics,

## THE DAIRY.

Changing a Cheesery to a Creamery. Editor "The Farmer's Advocate"
There is considerable uneasiness in some cheese actory districts. Where the condenser had cut into the cheesery patronage and almost wipe
the cheese manufacturer out of existence, the con denser has closed down in at least one place and
the cheese man is almost flooded with the cheese man is almost flooded with
milk. There is no good reason for the "panicky feeling ", among manufacturers of condensed milk, except the nervousness due to "war scanes." In
the meantime the cheese trade is having the the meantime the cheese trade is having the
greatest "boom" it has had in many years. One average price for the season of 1914, one-and-ahalf cents above the average price for 1913 and about 1,000 boxes more cheese boarded for the present year as compared with last year. How
ever, we may expect a reaction after the war is over and cheese factory patrons should prepare
over a reaction after the war is or it. In the meantime we may as well take full advantage of the "boom" while it is on
There is no use following the example of the old There is no use following the example of the or
lady who said, "It always made her feel bad when she felt good, because she knew she would he worse after she was better.'
One cause for the exceptionally high price paid or cheese and the relatively low price of butter
s given in the letter of a member of the Firs lanadian Overseas Contingent now located on Calisbury Plains, England, who says : "We get plenty of good bread and cheese, but no butter." regarding the relative demand for cheese and but ter and its effect on the price, patrons and managers of cheeseries, would do well to consides
carefully the advisability of changing from chees to butter manufacture at the present time. Not long ago we had a letter from the Presi-
dent of a Farmer's Co-Operative Cheese Company ent of a Farmer's Co-Operative Cheese Company saying they had a nice little cheese factory, were
doing a nice business, but a number of the pat rons wished to change from cheese to butter manu-
facture. He wished to know what the writer facture. He wished to know what the writer
thought of the advisability of changing, what the change would cost, and any other points likely the change would cost, and any other points making such a change in their methods Our advice was not to make the change just Our advice was not to make the change just
at the present time, unless the farmers intended
gotne into live-stock raising quite strongly, in it the present time, unless the farmers ongly, in which case skim-milk is almost a necessity, es
pecially for calves and pigs. While it is undoubt
change too suddenly in their methods of farming. about $\$ 100$ each. We are not "knocking" "ream
It takees capital to change a cheesery
into areamery and it takes capital to raise live stock. of centrifugal and centripetal forces by means of in the development of their business. Take the case in question. To purchase the inventions of the oa milk, an on on of the greatest necessary extra machinery and mane necessary cannot cose our eyes to the tairy fact, that in in order
alterations in the factory building to change from to equip 100 patrons of a cheesery, with modern alterations in the factory building to change from to equip 100 patrons of a cheesery, with modern
 the steam boiler of the cheesery is in good condi- is quite a large sum to be spout on, one machine
tion and that present vats, pails, etc., can be for the farms in one neighborhood, yet it it is probtion and that present vats, pails, etc., can be for the farms in one neighborhood, yet it is is prob-
used after making the change. In all probaility ably less than is spent for binders which are used
there is no engine in the chese factory or there is no engine in the cheese factory, or ore on an average 100 acre farm in Ontario for not
which is not powertul enough to drive a churn. Which is not powertul enough to drive a churn. more than about ton days the remaindor of the
This means purchasing a steam engine of 8 or 10 year the binder is idle, taking up valuable space, To hire $\$ 1,000$ capital involves at least $\$ 60 \begin{aligned} & \text { and being quietly, yet neverthelsss surely, eaten } \\ & \text { with rust and rot }\end{aligned}$ per year for interest-possibly $\$ 70$ or $\$ 80$. There other hand, is a machine which is is used not ont only
will
allo be considerable additional expense for every day, but twice every day in the year, on salt butter-wrappers or packages, shipping box:s, well-conducted dairy farms, so that it is not not like
etc., and considerable loss resulting from inexperi- $a$ machine which lies idle for about 355 days of
 quite distinct line of goods as compared with often than it "wwars out."
making cheesse. point of purchase of creaming apparatus by the farmers has to be taken into present is not a good time to change from chees

 Patrons of creameries are expected to purchase a devel, then will be time enough to make a change.
modern cream separator at an average cost of o.
H.A.

The Dairy Test at Guelph Winter Fair. resume of the test.
AyRSHRES.
Aged cow-1, Scottie's Victoria, John McKee, Norwich...........i.
Aged cow-2, Dew Drop of Menie, W. Stewart \& Sons, CampbellAged cow-3, Vioilet of Craigielea, H. C. Hamill, Box Grove
 Three-year-old-4, Craigielea Fluffruffles, H. C. Hamill.
Heiter-1, Hillhouse Blossom, F. H. Harris, Mount Flgin Heerif-r-2, White Lady of Craigielea, H. C. Hamill
Heifer-3, Douglas Scottie's Sarah, John McKe. Heifer-3, Douglas Scottie's Sarah, John McKee. Heifer-4, Sarah Douglas, John McKee....
Heifer-5, Craigielea Gem, H. C. Hamill, Heifer-5, Craigielea Gem, H. C. Hamill...........
Heifer-6, Duchess of Hill crest, F. H. Harris.
Heifer-7, Queen Jessie of Brookside, John Mckee Heifer-7, Queen Jessie of Brookside, John McK
Heifer-8, Douglas Star's Sarah, Jotho Mckee.
Heifer-9, Cug SHORTHORNS.
Aged cow-1, Gipss, A. S. Stevenson, Atwood.........................
Aged cow-2, Kentucky Rose, Wm. James Beaty, Guelph..
 Heifer-1, Braeman Beauty, Wm. James Beaty. holsteins.
Aged cow-1, Rosie Posch, W. H. Cherry, Hagersville...
Aged cow-2, Centre View Butter Gem, James G. Currie, Inger-
 Aged cow-5, Ladoga Idaline Veeman, A. E. Hulet, Norwich... tged cow-6, ne Veeman, A. E. Hulet, Norwion. Aged cow-7. Maysies Helen De Kol, J. K. Moore '\& Son, PeterAged cow-8, Forossie De Kol Clothilda, W. S. Shearer Listowell Aged cow-9, Madam B 3rds Prince De Three--cear-old-1, 1, Midninght Comet De Kol, J. G. Currie.....
Three-year-old-2, Highland Ladoga Mercena, J. G. Currie.. Three-year-old-2, Highland Ladoga Mercena, J. G. Curri
Three-year-old-3, Madam Pauline Canary, A. E. Holet. Three-vear-old -4, Janthe Jewrel Francy, Rettie Bros, Norwich.... Three-year-old-5, Maysies Francy De Kol; J.
Heifer-1, Pontiac Atlas Francy, Rettie Bros. Heifer-1, Pontiac Atlas Francy, Rettio Bros.............
Heifer-2, Mutual Pauline, R. M. Holtby, Port Perry JERSEYS
(ged cow-1, Brampton Bright Draconia, B. H. Bull \& Son, Bram








How the Dairy Cattle are Judged. The talk of dual-purpose cattle has no effect
on the dairy breeds. They are specializers des tined for one purpose, and that is to produce the dairymen put their animals on test to demon-
strate what they will do, and the public are permitted to watch their perrormance at the Winter Fair. Breeders are beginning to realize that they
must must not sacriice type, connormation and all for production. The heaviest producers this year
were ring and meet competition, but, as in past yoero,
the most the most typey cow did not win in every case,
and wo hope the aim of dairymmen wWll be to heve
the show cow is ashow cow also a winner at the paill. This
is aoal worth striving for and it should be
always kept in sight al ways kept in sight.
The records this.
The records this season wera beyond what were show, The winner over all, Rosie Posch will large, beautiful cow, and has to her credit a
of 297.48 points. This is an increase of point that of 1912. The tord of 1918, and 44.2 three days, and the scale of points condhured to when making the awards is 25 points for each solids not fat (S. N. .F.), and one point for each
ten days the cow has been in milk, after the firrl ten days the cow has been in milk, after the frral
thirty, with a limit of 10 points.

## The Cheese and Creamery Meeting

 at Guelph.The annual cheese and creamery meeting, held under the direction of the Dairymen's Association of Western Ontario, took place on Wednesday afternoon of Winter Fair Week at the Dairy Bulld ing, o. A. College. There was a large and onthusiastic attendance, the clase-room being near.
ly filled for the whole afternoon. President, W. D, Association occupled ithe mur, while Frank Herns Secretary, isselited in making the meeting lively and helpful. Mesars. Barr and Singleton, of the Dominion Dairy Commbitonert staff were present, as well as repreeentative cheesí and butter manufacturers from nearly all parts of Western Ontario. The Toronto and Hamilton creameries were represented by Mesers. MacFeeters, Duncan, McLean, Reesor, Forster and Westphall. We mention these to show thio grow. ing interest of large cities in the manutacture of fine butter. The Eastern creamerymen had a representalve in Creamery O Western Ontario Dairy- Tnatmetors mere pred ent, and did much by helpful suggestione to mate the meeting educational. It was largely an "ax. perience" meethg.
The results of the experimental work done dur ing the past season in the Dairy Department of
the College were presented by Mies wnilar Messrs. Brown and Bird. The manutacture ol cottage and buttermilk cheese was recommended for those who could secure a good market;
for those who could not, and the manutacture o poultry food from these dairy by-products wa advised. The solids of buttermilk can be sold for
15 to 20 cents per 100 Hbe as chicken feed, To prevent mould on composite cream namples
it is avisisable not to shake when ading froeb
lots of cream, nor to allow the cream to touch lots of cream, nor to allow the cream to to
the side of the bottle when adding samples. reading on the Babcock test bottle should be made -at top, middle, or bottom of the meniscue or curve in the rat column. A show of hands in dicated that the majority of those present prac
ticed reading at the bottom of the meniscus. Further work was considered necessary with what are called "red readers"" before their general use
can be recommended for reading cream, Babcock can be recommentad
sample tests. Milk sample tests. Nilk overine, or with the time of delivery at the cheoee
much acid, at the factory cused a loss of of 24 thes. cheeses per 1,000
foss. milk. according to tests made at 0 . A . C .
 the need for cooling the milk properly on the farm for cood results in cheese making.
The need of cooling cream for buttermaking,
especially where the cream is pasteurized, was especially where the cream is pasteurized, was
shown by the results got at the Guelph creamery, shown by he results
where they found that the loss of fat in the buttermilk form pasteurized cream increased with the
acidity of the cream at the time or heating. Others acidity of the crear loss could be overcome to a cer-
reported that this lon reported that this loss could be overrome to acer
tain extent by coling the cream and churing at
Ilow temperature which delays the churning so a low temperature which delays the churning bo
as to tave 50 to 60 minutes to churn. Gradine creatu, was recommended by Mr. Rob-

Chay mode a difference of 1 to 5 cents per pound gradel They found that this difiference in price asually caused the patron to improve the quality of his cream or to sent the creame elsewhere. The
otandard percentage of fat required in first grade otandard percentage of fat required in first grade
cream was placed at about 30 . Some of the creamerymen thought the grades should be In grading. Others pointed was little advantage in grading. Others pointed out that the more churing the higher would be the average quality of the whole lot, even though some poor cream lote might be included which tended to de-grade
the quailty of the butter.
In answer to the question, "How long can one man said, "a week if properly cooled cared for.', Another said he knew of a can io cream being kept 13 days then shipped to ${ }^{\text {com }}$ a
creamery, which he considered a time.
The Chief Instructor writing patrons was discussed a dislike amotructor said that there seemed to be structors go to the farms. One man said he exand extended an invitation to the Creamery In structor to visit each one. It was pointed out thet it would be impossible to visit all in one
season, but if the creamerymen would ald season, but if the creamerymen would make a list
of those sending in poor cream, the Instructor would aim to coll on such when making his reamery visit

## of uniformity in salting butter and too

much salt were complained of by buyers.
G. A. Putnam closed the meeting with words o
encouragenent. encouragenient
H. ${ }^{\text {H. }}$. .


## Live Stock and Seed Situation Discussed at Guelph.

Winter Fair a series of the Ontario Provincial pear which no one in attendance can afford to aiss, in fact, the management, recognnzing the
fact that these lectures are one of the most valuable branches of Ontario's great of the most valu-
during the past few during the past few years, so arranged their program that the judging in the ring and the lectures with the other. By this arrangement tho one attendance are permitted to hear the lectures and gain the valuable knowledge disseminated there ring. It is now generally conceded in the judging most educative features of the great fair are the actual placing of the animals in the ring and the discussion of farming and live-stock topics in the never before in the history of the exhibition was there a better program of lectures than was the
case this year and those in attendance case this year and those in attendance appreciated every session. Interest, of course, was always
most manifest when most manifest when live-stock course, was always
discusseds were being they speak, but while men who know whereo the largest crowd, it was generally conceded that ticularly those meetings in general farming, par ticularly those meetings in connection with par
Canadian Seed
Growers' Association Canadian Seed Growers' Association, were neve DAIRY GATTLE
On Monday, Dec. 7th, dairy cattle was the given. Winners of each breed in the Dairy Tes were led before the audience and advocates of tion that is desired or is being striven conformaBull, of Brampton, using one of his own cows as a subject for discussion, explained how the Jerseys aave been kept pure for over three hundrod years
and during that time breeders have not lost simht of type and character in their race aitor lost sight Consequently the Jersey is a show-ring animal as well as an economic producer. Anerica exc 1s
the Island of Jersey in long-time records but in
the home of the Jersey, particular emphasis is laid on economic production and in that direction America has been surpassed. The dairy type is the type sought
only in minor
Jersey breeders
Bull's opinion this
解 not fall in back of the shoulder bit it they should rach change
laced on the udder and card mote importanco or that part of the animal in the last few years. oount importance and are receiving more parat ion than formerly
R. S. Stevenson, of Ancaster, cluined grat
 other dairy cattle yet with all their yars Mr
Stevenson declared that Holstein men mould together and decide on
instead of going after such phenominal recoricts The speaker said thy general run of Ho's
would do with less daylight under them and
might further be improved by breeding out some
of the roughness of hind quarters that is some
times times seen. The sloping rump and pendulous
udder. which sometimes udder. which sometimes go together, especially in age, are objectionable. The demand is for cloan is most easily kept clean. These remarks udder not spoken in a tone that would depreciate the
breed in the least. bneed in the least. They were simply thrown out popular and useful animal. W. W. Ballantyne, Stra shires and called attention to the biblical anferences to the spotted cattle, claiming for them long depended on our National Reecords have so other work is given a subional Records that any breeds are all stock. In one sense the dairy
bred to but Ayrshires have been of the carry a proper udder and over a third o the milk vessols. Every ind cation are allotted fess must be present in this breed and the speaker tion.
Prof. G. E. Day, of Guelph, did not chantitu-


Willowbank Correct Currency 20822
sample of the herd-headers to be sold at "Willow

FOUNDED 1860

## FARM BULLETIN

## Demise of John Campbel.

The death of John Campbell, at his home, Sth, 1914 in his 65 thile, Ontario, on December and worthy figure fro year, removes a familiar breeders and exhbibitors of purenks of Canadian wisely-chosen importations and sed sheep. By hio and feeder he made the Fairview a breeder widely and favorably known throughout thes tinent and his services were frequently colle con requistion as a judge at the larger exhibition His counsels were sought in the conduct of various organizations designed to advance the interests of pure-bred live stock and at times he rand oth Farmers' Institute and other platiorms. He was also a devotee of few of bred shorthorn of which he reared not a model of comen merit. His farm home was a buildings and appearance, and his out gressive ideas which he wisely and rigidly the put into

The next best thing to seeing the Winter Fair at Guelph, and the Toronto Junction Wanter Fair
Show is $r$ reading the reports of these Show is reading the reports of these great show
and lectures in "The Farmer's Adyon
this they must have the milk vessels that make
it possible to perform and breeders must select wisely to blend the two proclivities must select
milk and beef. milk and beef

GROWING FIELD ROOT SEEDS olds, of the Ontario Agricultural by J. B. Reyn well attended and those present College, was or coming. As was the case at the One repaid egetable Growers Association meeting in Torthto, the most prominent topic for discussion was Ontario. Prof. C. A. Zavitz, of the Oentario Agricultural College, discussed the growing of portance of and first of all brought the imagriculture before the meeting by the use of the following table.


From this table it is seen that nearly a million annually. During the has come largely from France, with smaller quangot her sugar beet and Germany. Ontario ha States and a great deal from Germany and Unite imported from England, the amount of home grown seed being particularly small.
Experiments have been carried on at the O.A.C duction, paying particular carrots for seed pro of the mother roots planting vield to storing provement of variety through selection, the germ ination of home-grown seed, and the yield per
acne from home-grown seed as compared with imacne from ho
ported seed.
it After seven years of work in storing the seed of decay from mangels store was toosely least amount and from carrots and Swede turnips stored in band. Mangels and carrots gave the greatest per centage of sprout in the spring when stored in
the pits, and turnips when stored in sand. Roots in all cases were of medium size. In some countries where the climate is suitable roots for
the growing of seeds are planted in the fall. For auturowing of seeds are planting at Guelph the tall. For trenched with the plow early in the fall and roots are planted three fleet apart in the rows roow beine placed about five feet apart. These ar covered with loose strave and tivo furrows are Ahout the middle of December, after the ground has become slightly frozen, strawy manure to the
ve
is
Gue
three or four inches is placed. over the
In the spring when danger of severe fros

HCLEMBEER 17, 1814
THE FARMER'S ADVOCATE.
as usualty a larger yield of seed has been produced
in this way than where the roots were prence at the spring.
For commercial purposes the plants growing
seed are usually cut when about two-thirds of the seed has turned brown. These are placed in small stooks and threshed when dry. The sied but in a small way it is easier to strip it from the plant early in December and later in the month secure the seed that matures at a later
date. It is it is damaged by frost as this may injure before ination, As a result of six years' work at the College an average of 6.6 ounces per plant for conangel seed was obtained from a number of the cot seed per plant is a little less than two ounce and from Swede turnips only about four-fifths of an ounce per plant
In order to get at the
Canadian-grown mangel
germination of tests were made in six years, and Ontario mangel seed gave a particularly high percentage of germination in 1909, 1911 and 1913 and a ompara-
tively low percentage in 1912, and 1914. This tively low percentage in 1912, and 1914. This
is in comparison with imported sped. In the average of six years the Yellow Levianthan steed produced at the College gave a higher percentage
than seed of the same variety from any other source. Ontario-grown mangel seed has made comparatively high record in germination, and
has by actual test surpassed the imported see in yield of roots per acre in a verage tests in
five years in which the number of plants used was comparatively equi
discussion on this subject
GROWING OF VEGETABLE SEED.
The growing of vegetable seed was the subject agriculture, Toronto. His topic was very thor
agrich of the
oughly threshed Oughly threshed out at the Ontario Vegetable ber, a report of which has already appeared in these columns. Mr. Johnson made the, statement any other crop vegetablest season's crop o gardeners or vegetable growers of this province sardeners or vegetable growers of this province
will be grown from seed produced by themselves, first, because gardeners and vegetable growers
have not the time to spend in carrying on the necessary operations of seed growing. The cost in ing, staking, cutting, drying and threshing. He
did not think that a vegetable grower could afford to pay a competent man to look after the seedto pay a competent man to look after the seed-
growing end of his business. Threshing and
cleaning machinery are all expensive and when cleaning machinery are all expensive and whe
some vegetable growers cannot find capital to ađopt improved methods of growing they certainl Besides this, the average vegetable grower work on a small farm of about ten acres and has no varieties to prevent cross fertilization. . There-
fore, we muct depend vegetable seeds on a large one who will grow tusiness of producing them as a specialty leaving gaged therein. The following list of varieties is eaged therein. The following list of varieties is
recommended by Mr. Johnson as standard among
the vegetahle the vegetable growers around Toronto.
Beet-Early Flat Egyptian, late Detroit Dark Red Eclipse. Cabbage-Early Ball Head. Carrots-Chantenay. Celery-Early Paris Golden, White Plume Winter, Winter Queen Corn-Golden Bantam, White Corn. Leklyford
Grand Rapids, Big Boston. Melons-Rock
Type, Paul Rose Giobe, Yellow Danvers Globe, Yellow Red Wethers field Red. Peas-Early Gradus, American Wonde
late Stratacem. Tomatoes-Red Earliana, Chalks Jewel, Red Rock; for factory use, Stone Ionotum. A. McMeans of Wheatley, continued the disTHe canadian seed growers' convenTuesday morning was given over to the annual
convention of the members of the Canadian Seed Crowers' Association resident in Ontario. At a
meeting the previous day a committee had been
mer appointed to formulate plans for the estahlish-
nemt of what finally came into heing as the West-
ern tion formed to aid in the production and dissemin-
ation of high-class seeds with members, bona fide
suepl- producors who will put out seed guaranteed an to quality, The officers of the new associa-
tion are G. H. Clark, Seed Commissioner
Othawa. Prof A. Zavitz. () A. C., Guelph: A. Minney; Fred Foynston; and R. W. Wade,
Whe ner asTHE SEED CENTER.
Will Barrie, of Galt. Ont., Secretary of the
centre, and advocated theeting the work of the seed
cening from the field or the use of small threshers operated by six field or the case may basoline engines or electric power, as prevalent means of distributing foul weed all too hreshing carried from farm to farm by the seeds made the outfits commonly used in Ontario. He made the statement that from selected seed on ten to twelve bushels per acre, and forty from cer bushel more in price for wheat than was the selected.
Ross Martindale was taken in the address of Grand River Alfalfa Seed Centre organized at the former place on July 1st, 1913.
Haldimand County with its heavy clay loam and rolling topography is especially well adapted to growing alfałfa. The crop has been ixty years, and there is for the past fifty or that the first seed sown was of the variegated variety. This, next to Grimm's alfalfa, has the Seed Centre is to encourage the production of hardier strains of alfalfa, and by means of coAccordingly, a bushel of Grimm's seed was procured this year, and six acres have been sown bers are taken promise well. Only twelve meming that a small number is preferable, because there is less expense connected with the work, it is convenient and easy to control, and there is
no difficulty in members getting to the meeting. Last year 63 in membersers and 33 potting to the meeting. sold, nearly all. testing number one. 'The average
price for the seed was $\$ 20.00$ per bushel, and the
gin with plenty of capital, and always have THE CORN SITUATION, W. J. W. Lennox in a brief address outlined efforts of the Department at the present time arie put forth to encourage the sale of corn on, the ear. Too much seed corm is sold, in Ontario, shelled in bulk, and while a great deal of it is of
high quality considerable is of only questionable value and should not be relied upon. He 'also believed that we had too many varieties of corm
in Ontario, and recommended in Dents, Wisconeln in Ontario, and recommen Goldow, and Bailey, and
No. White Ca, Gow
in Flint, Longellow, Compton's Early and Salzer's North Dakota.
A number of papars and addresses were given by District Representatives of the Ontario Depart-
ment of Agriculture, outlining some of the obeerment of Agriculture, outlining some of the obeer-
vations they had made during the past year whim
inspecting field crops in their respective inspecting field crops in their respective localitioe.
P. S. D. Harding, of Perth, Ont., I. B. Whele of P. S. D. Harding, of Perth, Ont., I. B. Whalo, of
London, Ont., G. R. Green, of Woodstock, Ont. London, Ont., G. R. Green, of Woodstock, Onat. work to report. - The outstanding feature of
these observations was that farmers are begintin these observations was that farmers are beginine
to become interested in the work the Difetriet Representatives are doing towards better seedt,
and see the value of seed selection and greater and see the value of seed selection and greater care in caring for their seed to keep it pure and
free from weed contamination. Fach man showed free from weed contomination. Each man showen to continue experimenting year after year of order to find out just what each particular
ity requires in the way of variety. It wae in all ity requires in the way of
a very interesting meeting

THE LIVE-STOCK SITUATION.
the big subject assigned to four well-known live a to c $k$ men on Wredneoday
afternoon. Prof. M. Oum
ming, Truro, N. S., not belng


A Group of Yearling Heifers. To be sold at "Willowbank"" December 30th, proper total receipts of the centre $\$ 1,291,70$. The total expenditure for the year's business was only
$\mathbf{~} 47.35$. One hundred and seventy $\mid$ letters and cards all told were received, most ofrthem being enquiries for alfalfa seed. The result has been that the members are taking every precaution to keep their fields clean, and are exercising BUYING AND SELLING CO-OPERATIVELY F. C. Hart head of the Co-operation and Mar ets Branch of the Ontario Department of Agriculture, spoke briefly on the subject of marketing seed. In his opinion Seed Centres should have their seeds co-operatively, and when the proper should be handled by one concern, probably a provincial organization; but, we must not expect too much of co-operation, and, as in every other
successful business enterprise, small beginnings successtul greater things while large starts generally result in failures. Adequate organization The business must be learned by experience, the principle of selling co-operatively is essential, and
members or the 18 cal seed centres must realize this fact. By starting in a small way with few
members it is possible to get men that will work members it is possible to get men that will work
together, and this is the only road to success
Above all things a goorl man must be haci as a Above all things a goor man must be han as a
manager, and it is not always that the best pro-
ducer is the best manager Again the price
asked has an affect on the selling. It is possible asked has an affect on the selling. It is possible
to put the price so high that sales will he cur-
tailed thereby. As pointed out by Mr. Martintailed therehy As aim should be to produce the seed at a
dale, the aim
profit to the grower. and sell it at a price which will induce and pay the purchaser to buy. Mr
Hart was hopeful that large things would come
from the Seed Centres properly organized. Be-
purchasing an tario. The
of the United government. ${ }^{\text {b }}$ This manager these or by the judge of live stock manager must be a goo work. Live stock breeding has been making rapid advancement in the East. The breeder
down there know more about good live than they did ten meare about good live stocil gree as well as individuality. High recorde have been made by some of the cattle in that
province. The dumping of poor stock from Ontario into Nova Scotia and the eastern provincee will certainly injure the trade, and Prof. Cumming looks to Ontario to organize 'the central to work out the scheme.
H. S. Arkell, Assistant Dominion Live Stock took the audience for a trip over the Prairie Provinces, discussing the particular adaptations of each of the many well-known localities to the
different classes of live-stock husbandry. from Winnipeg and away west to the Rockies he went; then north through the northern-most part of settled Alberta; then east and back to Winni-
peg. He showed how in certain parts agriculpeg. He showed how in certain parts agricul-
ture is becoming permanent, and a steady growth in mixed farming and live-stock husbandry is be-
ing effected. Manitoba is an instance of this. ing effected. Manitoba is an instance of this, live stock in Manitoba during the past few years,
but in the whole of the West there has been $\mathbf{a}$ but in the whole of the West there has been a
considerable increase, and. whereas a few years aqo large numbers were being imported for con-
sumption, this year there were exported $\mathbf{3 1 , 4 5 5}$ sumption, this year there were exported $\mathbf{3 1 , 4 5 5}$
cattle and over one million hogs, Manitoba is settling down to produring live stock, particular-
ly cattle and horses. The West is endeavoring to settling awn and horses. The West is endeavoring to
ly cattle and heeds, but there will for years
supply their own ne
to come be a strong demand for breeding stock,
particularly from that section lying to the north and west in the Prairie Provinces. The most allarming situation has developed in the hog trade; Alberta produced this year practically 1,-
$\mathbf{0 0 0 , 0 0 0}$ hogs, and these were rushed to market shoving the price down below profitable produc tion, but, as pointed out in the Hon. Duncan Marshall's address which followed, the price is going up and likely to advance higher. It is meat moved from east to west now the reverse is the case and the meat is moving from west to east, one million pounds coming east during the
lest two months. The West had during the past year a great producing boom in breeding etock, and grain growing is giving place to
mixed farming. In the speaker's oninion agriculmixed farming. In the speaker's opinion agricul-
ture does not under present conditions obtain the requisite results for the work being done There is a lack of that organization which is so prominent in other lines of endeavor. is a need of a body representing the sell. There of the business. In other words the producer must in some measure control the marketing, else we cannot overcome
In a rousing address the Hon. Duncan warmed his audience up to the for Alberta, effort and a wider education for farmers and farmers sons in their own business. In his own
province in 1901 there were 92,000 horses, while In 1913 there were 580,000 . In 1901 there were
323,000 cattle in 1913 . 323,000 cattle in 1913 1,000,800, while hogs had grown
lion. Hem practically nothing to over one mil-
Helieved that there was such a thing as too high prices for hive stock, citing the case of the farmer starting farming in the West and who a short time ago was obliged to pay from
$\$ 600$ to $\$ 700$ for a team, which he considered too much, and he believed it would be better busi ness all the way round when horses sold at a lower figure. The very foundation of a lasting
agriculture, he stated, was live-stock breeding agricuiture, he stated, was live-stock breeding self the most important consideration in the de velopment of the business. We must train the boys and give them the agricultural education
which they need. In no other business do the men engaged therein lack the training to such an extent as do those which enter upon a life wor in the calling, of agriculture. We must have good judges and lovers of live stock, and we must take schools at their door wherein they can get the necessary training at small cost and in as short a time as possible. Too many of our farms
have scrub stock, and too few are laying stres on the pure-bred variety. The average boy on the land, according to Mr. Marshall, does not know anything about his business, and to prove he cited the case where 88 cows, which were bought for the Alberta Government which were last year, made in one month, after a long hard
trip to the West, 1,100 pounds of milk each and one of which cost $\$ 125$ made 17,258 pounds in 12 montho. These were selected by a man trained speaks well for the training of that institution. It is this education which we must take to the boy on the farm. In conclusion he believed that the world's market offered to-day the best induce-
ment ever to the intelligent live-stock breeder
Prof. Barton, of Macdonald College, St. Anne de Bellevue, Que., outlined the live-stock situaOntario, and of Canada with a the Urited States vividly depicterd to his hearers where this coun-
try and his province stand in the live-stock busitry and his province stand in the live-stock busi-
ness. His was one of the best addresses of the entire meeting. Comparison with other countries
shows that Canada does not hold the position in shows that Canada does not hold the position in possess roughly in frectional form about 1-153 we the world's cattle, $1-47$ of the worlt's horses 1-28 of the sheep, and $1-58$ of the swine, while United States possesses a little over $\frac{1}{4}$ of the
world's cattle, about $\frac{1}{4}$ of the horses, $1-12$ of the sheep, and almost $\frac{1}{2}$ of the swine. Fwen per
capita the advantare is still with the United
States, and States, and yet we have a great live-stock country in canada. Since 1900 we hawe made slight
progress in all classes of stock with th.e .xcep
tion of sheep but the numbers show crease, while a favorable situation is shown th the substantial increase in value. In total value
of farm animals in Canada, Ontario stands first. of farm animals in Canada, Ontario stands first,
Quebec fourth, but the value in Queltoc has
most doubled since 1901 , and an incrense is shown in every class. During the last four or five ears, howevever, swine have not heen Eannin forty years ago than she has to-day. This is
true of the entire Dominion, but in 1909 thi 1 id. true of the entire Dominion, but in 1909 the rid.
turned in Quebec and sheep are gaining in favor turned ir Quebec and sheep are farm in Quebec has' increased from $\$ 387$ to $\$ 600$,
or fifty-five per cent. per farm of 97.63 acres.

Numbers are increasing also. Quebec carries men should not, annual out farm, but is gaining on Ontario in per holding, 2.3 horses, 4.7 milk cows, 4.3 other cattle, 3.7 sheep and 4.8 milk cows, 4.3 other ten years in horses, cattle and hogs, but a defarms averalk cows and swine per farm. Ontario horses, milk cows and swine, but an increase in Quebtle and sheep.
Quebec is also making a rapid increase in liv decade, sold, jumping about $325 \%$ in the last $\$ 20,406,385$. In ten years Quebec's dairy The numbeased from $\$ 20,207,862$ to $\$ 31,663,220$ minion in the dairy cows increased in the Do production of these cows has increased $43 \%$ Winter dairying is advancing in Quebec because of of which of which is going to the United States as well as
to the big city of Montreal. to the big city of Montreal. Quebec far exceeds
Ontario in the output of factory butter; the export of cheese is decreasing materially Every year sees improvements in Quebec where the farmers are more and more dependent upon animals and animal products as the main source in the quality of stock going to the stock yards. Big sales of pure-bred stock are made in Quebec, and with ""Farmers' Clubs," of which there are
62,000 members, receiving government grant with government agencies and live breeders progress is being made. Quebec is a ready market and a fine field for Ontario live stock breeders, but must not be considered as a dumping ground
for the inferior stock from this province. Quebec in pure-bred stock is not a leader, neither is she a tail ender. Less than 1\% of her horses are pure-bred, about $1.25 \%$ of her cattle are pure-
bred, and $1.04 \%$ of her hogs are pure in a good position to forge ahead. She has a




ould
the the
must
that
the fmportation ne iourteenth das of Necember

Rosie Posch.
Champion producing cow at the Guelph Winter Fair, 19
large territory; her rural population is increasing, owards live-stock improvement farmer is keener has been the case for some time past present than bers and value of live stock are increasing, and and sheep. Toom for special effiort in dairy cattle and sheep. The home market in (Quebece ranhs with the best, situated near Montreal and the larger oppolitunities for ontario live stoce On Thursday, Dec. 10th, stockmen gathered it ties for Ontario live stock. Robt. Miller, Stould ville, Ont, discussed the horse-breeding outlook of other lines of industry ir the country. For
instance, litule building is being done, and horses
usually entrad usually engaged in this work are being thrown
uporr the market. This is also true of railway
consirumion ben (umada, where pasoline and stemang in West"ork is being done in the woods this yeary Mr. the of homsee nave heenn bouct that in large numhey cans geen a more wniforme Thited states where

1914. Her record can be
abate his effor's.
R. H. Harding, of Thorndale, commented upon the decrease of sheep in Ontario. We now
have less than $1,000,000$ sheep, and have suffered a decrease of 25,000 in Ontario during the las year. During the last four years sheep have de-
creased 135,000 head. ble for this condition, for they are now nearly double what they were thirteen years ago. Mr .
Harding recommended that every farmer, where Harding recommended that every farmer, where small flock of sheep upon his farm, and that he and all other sheep breeders should raise their standard and put a more finished article upon the te increased. The average in ontario is ap. be increased. The average in Ontario is ap-
proximately three and three-quarter pounds per sheep, whereas it might as well be made five or
six pounds per sheep. This is why Ontario is six pounds per sheep. This is why Ontario is
now importing wool, a condition which seems
ahisurd for atsurd for a province so well suited to sheep.
husbandry. In order to raise the quality of the selection and wool, breeders should look to the selection of their sires and choose only those
which are grown and matured. In this way the crop of lambs will be made stronger, and the an
rual shearing will te wery much ( very much $\cdots \begin{aligned} & \text { optimismand and } \\ & \text { patriotism should }\end{aligned}$ patriotism should
hand in hand in stimulating the dairy farmers of Canada to do
their hest at this most critical time in thio-
history of the British nation.",
John Gardhouse, of
Weston, Ont a brief address that in a brief address that in breeder of beef cattlethat the future never was hrighter. got to
adians have goole or feed the people or
Europe, and thecharacter of the war is
sure to bring about sure to bring a b ou
circumstances that will circumstances to the stockmen in this coun-
try. He urged $t$ hat every farmer should improve and increase $t \mathrm{~h}$ e breeder of pure-
men should not, in the time of slack demand
neglect their horses W. F. Stephen, Huntingdon, Que., gave a very farmer in Eastern Canada. The dairy situation is becoming more complex, and the dairyman is now surrounded by regulations and exactions imposed on him by municipal, city and provincial bodies, these causing increased expenditures
There is a growing demand for good dairy pro There, is a growing demand for good dairy pro-
ducts, pure, wholesome and of choice quality, arrd ducts, pure, wholesome and of choice qualty, arrd recompense for the labor involved.
counts as never before. The business is good footing and there is no cause for alarm, and there is no indication that dairy products will become lower in price, but with an improvemem in quality they may go higher. Mr. Stephen breeder of high-grade dairy cattle. With an increase in demand for high-class milk in our cities so will the demand for cows of large production increase. Testing has proven the wisdom or
keeping cows of large capacity, with the result keeping cows of large capacity, with the result the canneries. Pure-bred sires from record families are necessary. There are still too many
scrub bulls. The dairy business has received a temporary check owing to the financial depression caused by the war, but no uneasiness should be felt as a result of this, because there is a brighter future than ever before the dairy farm-
er. There is no surplus of cows or young heifers at present. In fact, there is a shortage in the Western Provinces both in high-grade cattle and in pure-breds, and when money becomes easier cattle, and profitable prices will result. Farmers now demand foundation stock from ancestry with a record. Production is the kev-note of the situ-
ation. As a result of the conditions in ation. As a result of the conditions in Europe
a market for good pure-bred dairv stock may be opened in Furope. Mr.
Stephen concluded that

## A Year of Plenty and Quality at the Guelph Winter Fair

 or have been wihnreld on account of conita sious
 thy the farmers and for the fariners and attuoush are reliavole and the succepss of the winter traj aov closed manifests the security of any enter priso favored with the goon will and patruag
of Ontarios rural poppulation. They look torward to the event of meeting annually with others of their own occupation and viewing together tho
result of a years s eflorts in in
the
prodiction


 admiring and appreciative audience. This wide a
 coupled with an ellicient and painstaking manage
ment is is sure to
anchor the event in the
 Neessity 1 ong ago did away with any reasoning
regarding the
accommodation for the Fair.
Wh must wait for better times when we are sure such graothy no insulitution wilt be havered with ibieral groe at least, ces.
and impor tance.
It is vastly more pleasing to report that the
 eere not so strons numerically as as in some former
years
but thene was years sut there, was sigh deerease and in the
cattle stalls and, in fact in many corners were
 ment of the exhisition was superior to that of
former years and in quality
alone the most

 | Last Year's entrie |
| :--- |
| and whel brought ool |

The lecturest an out important feature of the Fair
were well mere well attended. The efforts of the manago
nent to
to compile a timeotable for juding and lecturing so no events would confict were reward-
led with
good attendence at the difierent sessions


## Horses.


was splitting hairs, so to speak, inter heolse. It
these three horses, but the judgment as a whol looked most consistent. Ardyne Blend was wiven nicely-muscled body, but he did well-turned and quality manifest in the three above hims. Next Baron George, Kircudbright by Baron's Pride. Hope. They were the nice type of Clydesdale stance, quality in this, country, combining subthe first seven winners were sined Four out of Price, showing the wonder influence of baron's of Clydesdale horses.
maintained their position the Canadian National year-olds. Barrington stood first of nine threeBrougham second as they did at Toronto Fressilian came third. On this occasion it was Scotland's sired by Sir Hugo, and bred by one of person could find fault with his action, and he carried, a good top on a set of limbs to match
The fourth individual was Baron Senwick The fourth individual was Baron Senwick, an-
other good son of Baron's Pride, and out of the Rose of Upper Senwick. He was right in of the way, but extremists might wish for him a little larger set of feet. Baron o' Buchlyvie's contribuplace, Dunure Lucky Star candidate for fifth iucky as some of his class-mates, but moved rraight and was worthy of the place
The outstanding
class was Baron Ascot. For the two-year-old kind of a body, and the ability quality, the right ro suit horsemen this animal was given the red ribbon. He was furthermore honored with the
championship of the Clydesdale breed and supremacy over all horses in the show, male or
female. Baron's Blend and Thorndale third, while fourth stood class, Malcolm. The fifth place was allotted to Prince Wright, and the five made up a quintett
the breed has no right to be ashamed of.
The class of aged mares fortold some good
Canadian-bred classes in the future. There Canadian-bred classes in the future. There were surpass; such names as Royalette and difficult to ing are familiar to all Clydesdale admirers, but Bloomer came into the ring and wrested the laurels fromi them. This massive, well-coupled
mare was supreme in fit and bloom, mare was supreme in fit and bloom, but she did foal. Royalette, an older mare, that is still one of the best brood mares in the country, lacked a
little of the freshness she once possessed, but with it all stood out as a female worthy honors. Ella Fleming, the recipient of the white ribbon, showed as well in action as any candidat
in the ring. She could do it on acoult in the ring. She could do it on account of one
of the best 'set of feet and limbs usually seen on a mare, but she lacked the substance of the two above her. In fourth place was Lady Sangster, and, like the mare above her, she had many good
points, especially her quality and action, but she could not measure up to the winners for conformation and substance. It was a good class, and fifth in it was. Boghead Darling a good in-
dividual sired by Sir Humphrey Bloger wal made champion Clydesdale mare, and later grand champlon female of the breed.
The winning three-year-old mare at Toronto,
Lassie of Petty, took second place in her closs Lassie of Petty, took second place in her class t
Laura Dee. It was a close contest, but the wi ner is a little more reliable in her movement never to go wrong. Popular Polly was popular
with the judge and secured third honors, while Qurth
Queen.
Six
Six two-year-olds and four yearlings made u the remainder of the female classes.
Hogg, Thamesford, J. F. Hushand, Eden Mills Goodfellow Bros., Bolton; T. H. Hassard, Mar'sham; G. W. Saunders, Jerseyville; Hugh McLean
Wvoming; W. Woodley \& Son, Dundas: T. D. Wvoming; W. Woodley \& Son, Dundas; T. D
Eviliot, Bolton; B. Bryson, Wvoming: John A Boar \& Son, Queensville: ${ }^{\text {\& }}$ Smith \& Richardson,
Columbus; Bender \& Walter, Cowanstown: Colin Columbus; Bender \& Walter, Cowanstown: Colin
McKeighan, Strathroy; McKeighan \& Watson
Strathroy; Robert Cox \& Sons, Todmorden: W A. Jones, Calertonia \& J. T. Barton \& Sons,
Beeton; Chas. Gilctorf, Mount Forest; H. I. Bern


 in 1911: 1 and 2, Graham Bros., on Rarringt on
hv Cedrir's Raron. and Prince of Rrougham

Fressilian by Sir Hugo; 4, Boag \& Sons, on Baron Senwick by Baron's Prica; 5 5, Bender \&
Walter, on Dunure Lucky Star
Wuct, Graly 1 and Lord Malcolm by Mendel; 2 and 3 Smithe, Richardson, on Baron's Mendel; 2 and 3, Smith \& and Thorndale by High Honor; 5 , Jones, on Prince Wright by General Miller. Stallion foaled
in 1913 : 1. Smith \& Richardson, on Everard Everlasting; 2, Graham Bros., on on Evicerard by Cedric's Baron'; 3, Barton of
Elderslie by Ens, on King Ky
Enight Elderslie by Elderslie Patriot. Aged mares: 1 Graham Bros., on Bloomer by Benedict; 2, Hogg,
on Royalette by Royal Edward; 3, Watson Sons, on Ella Fleming by Sam Black; 4, Smith \& Richardson, on Lady Sangster by Baron Rothechild; 5, Murray, on Boghead Darling by Sir
Humphrey. Mare foaled in 1911: 1, Smith
Richprds Richardson, on Laura Dee by Baron O'Dee; 2, Graham Bros., on Lassie of Pettie by Farmer's Sir Hugo; 4, Hogg on Iris of Petty by Boally by Buchlyvie; 5, Goodfellow Bros., on Black Bonnie \& Sons, on Solway Duchess by Title Deeds. Boag 4 and 5, Smith \& Richardson, on Mandoline by Fyviel, Black Jewel by Bydand, Black Maid by town Baron. Mare foaled in Bucklet by HarviesRichardson, on Lady Lochfergus by Signet ; 2 ,
Boag \& Son, on Lady Boag \& Son, on Lady Aachforgus by Signet $f^{2}$ 2,
Wilson, on Py Ascot Chief;
8 Wilson, on Ruby Lane by Montrave Ronald; 4, Houson, on Royal Mary. Champion Clydessalale
stallion, Baron Ascot. stallion, Baron
female, Bloomer.
Calliondian-BRED CLYDESDALES The aged stallions representing Canadian breeding were and Royal Marquis inald first; Glen Rae second, horse was strongly horse was strongly topped, but none too springy
in his action; Lord Ronald was best in this respect, and Glen Rae was good but did not move too straigh
Four three-year-olds were placed in the order of Maconbie first, Peerless Ascot second, Orla's
Boy third, and Special Royai Favorite fourth. They were a strong, well-built Nine contestants responded to the call 'for
two-year-olds, and from these Montrave was chosen for first place. The distinguishing features of this horse were his sloping shoulder and pasterns and good quarters, while Internadeeper and better riblbed animal than the winner.
Prince Roderic, which arried Prince Roderic, which carried out the white ribbon, was a compactly-built horse with quality
throughout, and Stratford Gay Bay looked well enough to occupy most any place in the ring. Acme's Favorite, sired by the old horse Acme, was given fift
stood sixth. of the Canadian-bred stallions. Prince Carruchan, winner of his class at the Canadian Nattonal and Ivory's Joy, a young horse by Black Ivory. This young stallion compared very favorably with anything bred in this country or in the Old Land.
He was a dark brown or black in color, and He was a dark brown or black in color, and
possessed quality and substance.
He was later made champion male of the Canadian-bred classes, winning honors from the older horses and the
young foal, Duks Carruchan. Prince Carruchan young foal, Duks Carruchan. Prince Carruchan
cannot be faulted for lack of quality for he has plenty of it with excellent feet and limbs, but he Joy neither did he show the weight. as Ivory', Own, coming third, was well put together and firmly coupled, but from the body down was not on a par with Prince Carruchan or Ivory's Joy. Dunure Ivory gave an exhibition of good action,
but he was a smaller horse that those which stood above him. Ton of Gold was given fifth place in this class of good horses on account of a fine quartette of feet and nice quality,
Out of four stallion foals Duke Carri given first place, Avonton Royal Hero gunch of Glamis third, and Scotish Favorite The champion female of the Canadian-bred Classes was found in the aged mare class. Charm, hy Lord Charming, was piven first honors in her class and later champion female. third. Trim of Oro which has been seen often in cottish Queen stood fifth. Four candidates came out in the three-year-old
class. and six in the two-year-olls. In the
former class Princess. of Athat, a mare with good Flora Tanes secured like honors in the class for The yearline females made one of the best lassis seen throughout the entire show. Fifteen
linell up and first place went to Nora Carruchan,
lint it was no fass winning. Scotland's Charm,
the candidate for second plave, put up very ning first place on Irade a large grey sire, weth possessed by Now quite the outstanding quality possessed substanice Carruchan, but she had a little the wwhble va strong contestant for the highest plaie:. Molly of Burreldells secured the white tobon on account of good quality and fair
sction, but she could have gone a. little closer action, but she could have gone a ittle, closer stout and well-built filly with plenty of substance and proper action. Minde Peirl sixth.
A class of five filly foals gave promise of
something good to come later on, especially the little, grey, Ivory
Exchibitors.-Thomas McMichael \& Sons, SeaClaremont; William Wianchton; Graham Bros. C. Rogerson, Fergus; Joseph Telfer, Milton James Spier, Brussels; J. F. McKenzie, Wood-
stock; T. H. Hassard, Markham; W. J. Taylor,
Grand Valley; John W. Pinder, Sharen; Gtock; H. Hassard, Markham; W. J. Taylor,
Grand Valley; John W. Pinder, Sharon; Geo.
Gropp, Miverton; John Gropp, Milverton; John Arbogast, Stratford;
John Vipond, Brooklin; Jes. A. Milne, Fergus: John Vipond, Brooklin; Jas. A. Milne, Fergus;
R. M. Holtby, Port Perry; J. T. Barton \& Son, Beeton; Jas. H. Hearl, Orton; Alex. Clayton,
Grand Valley; W. F. Batty, Brooklin : Isaa Grand Valley; W. F. Batty, Brooklin; Isaa Watson \& Sons, St. Thomas; Fred. J. Wilso Avonton; John D. Camplell, Palmerston ; Gueo Miller, Black Heath; Geo. W. Reist, Floradale Oharles Gilstorf, Mount Forest; Geo. Clayton, Grand Valley; Jas. A. Brander, Elora; Rober
Duft, Myrtle; H. . Barnhardt, Oro Station
Tichael Riehi, Stratford; Elijah Wray Schom Tichaee Rieh, S. Stratiord; Elijah Wray, Station ;
berg; Jas. Nichol, Hagersville; Robert R Wat berg; Jas. Nichol, Hagersville; Robert R. Watt Mowster, Brampton; William, Seagrave; Jacob, Stratford
John D. Mc Gibbon, Milton: Wm. French, Nowster, Brampton; William Jacob, Stratford;
John D. Mithon, Milton © Wm. French,
Mitchell; Fobt. Clarke, Carlingford; Smith \& Ritchell; Foobt. Clark
Awards.-Aged stallions: 1 and 2, McMichae Glen Rae on Lord Ronald by Baron's Luck, and Marquis by Moncreiff Maryuis. Turnbull, on Royal Marquis by Moncreifi Maryuis. Stallion foaled in Gu11: 1, Graham Bros., on Maconbie by Mc-
Orla; 3, Wooderson, on. Orla's Boy by Prince Prince Ascot; 4, Telfer, on Special Royal in 1912: 1, Milith Fav Montrave Yontrave Magnus; 2, McMichael \& Sons, on International by Prince Romeo; 3, Vipond, o Prince Roderic by Royal Roderick; 4, Arbogast Acme's Favorite by Acme. Ntallion foaled in Acmes, Favorite by Acme. Stallion foaled in
1913: 1, Smith \& Richardson, on Ivory's Joy by
Black Ivory; 2, Batty on Prince Carruch Black Ivory; 2, Batty on Prince Carruchan by Galant Carruchan; 3, Alex. Clayton, on Marquis Dunure Ivory by Dunure Soutar, and Ton of Gold By Homestake. Stallion foaled in 1914: 2. Murray, on Avonton Royal by Royal Consort 3. Gropp, on Punch of Glamis by Knight of Glamis; ${ }^{\text {4, Campbell, on Slamis by Knight of }}$ Ccottish Yoeman. Aged mares: 1, Miller, on
Charm by Lord Charming; 2, Campheli, on Lady Fevorite by General Favorite ; 3, Gilstorf, on Black Bess by Castle King; 4, Watson \& Sons, on on Scottish Queen by Scottish; Celt. Mare foaled in 1911: 1, Dufi, on Princess of. Atha by Bay by Glen Rae; 3, Milne, on Rose Marquis by Rontrave Marquis; 4, Reist, on Maud Fashion by Mora Tangy by Ronald of Tangy; 1, Riehl, on Walpole Lady by Commodore; 3, Gropp, on Lady Blend by Highland Blend; 4, Wray, on Lena
Baron by Celtic Baron; 5, Arbogast, on Bonni McGregor by Edward McGregor. Mare foaled in
1913 1, Batty, on Nora Carruchan by Gallant 1913: 1, Batty, on Nora Carruchan by Gallant Carruchan; 2, Miiler, on Scotland Charm 'by
Kinburnie; 3, Brander, on Molly of Burreldells by Kings Seal; 4, Gropp, on Rose of Glamis hy Knight of Glamis; 5, Bardley, on Minnie Favorite
by Clan Favorite. Mare foaled in $1914: 1$,
Smpith \& Richardson, on Ivory; 2, French, on Primrose by Mucius: 3 ,
Batty, on Nellie Carruchan hy Gallant Carruchan: 4. Watt, on Flora Dora by Glen Rae; 5 . Clarke,
on Fanny C. by Mucius. Champion Canadianon Fanny C. hy Mucius, Champion Camadian-
bred Clydesdale stallion, Ivory, Jo, Champion
Canadian-bred Clydestale fomale, Chum PERCHFRONS
This breed made a more imposing exhibition
than they did last year. Some of last seasont winners came back and repeated their victories While intermingled throughout the different classns
was some imported blood that spelt defeat winners of former years.
Numerically the aged stallion class was twice as
strong as last year, lacking one. Eleven lined ut strong as last year, lacking one. Eleven lined up
and the beautiful head and neck coupled to Percheron body of each one beside ten others of Perchern body of each one beside ten others of
its kind made a sifht worth seeing. The awards
begin similar to last year's report, Elliott $\pi$ in-
proportioned and set on a good set of limbs which one of old Romancier's get, cane second and
made Irade show well to win. The former horse moved straight, but he did not show as good hock action as the winning entry, Following
these two greys came Jet, a black with Etudiant these two greys came Jet, a black with Etudiant
blood, and lots of courage in his movement.
Kakiz was fourth and Komb fifth They were so adept in the operation of showing their steel as those in the high places, but for conformation For quality, honors went to the old class. From a noble lot, Lenoir was selected to receive the red ribbon and ultimately the championship. Substance, quality, limbs and ex-
pression are all pronounced in this shiny black stallion which rightly won the highest honors
for Hodgkinson \& Tisdale. Luth, the secondfor Hodgkinson \& Tisdale. Luth, the second-
prize winner gave as good an exhibition of action small odds. Lorrain was third and fourth: If the latter horse were consistent
thiroughout, that is if his action were as good as throughout, that is if his action were as good as
his massive body and muscular make up he would
be a hard be a hard horse to beat. Lancastrien, a fair mover and a good limbed and a good bodied
horse was fifth. Four stallions foaled in 1912 came forward and went out in the order of Miroton first, Mardi
second. Diplomat third and Molotor last, general fitness to win a class, Miroton was bes a grepared. He was in prime condition, possessed was much the same type as the winner, while Dip lomat showed the best action of any horse in the
ring but was not in proper fit to show in such a ring but was not in proper fit to show in such a
class.
Lacune female classes had three candidates each awarded won the aged class with honors and was
awarde championship. Mela, by the dead Imprecation, was considered best of the young from the more elderly not win any higher honor The awards in the Percheron classes were made by Rohert Graham, Toronto.
ton Porter, Simcoe; J. B. Hogate, Sescoe; MilJohnson, West Toronto. Hogate, Weston; Noble Beaverton; T. D. Elliott, Bolton; M. Dyment, Niven, St. Thomas; Joseph Telfer Milto F. Me Awards.-Aged Stallions: 1, Elliott on Irade by Sahara; 2, Hamilton on Kavaignac by Romancier; 3, Cheyne \& Steen on Jet by Etudiant; by Felot. Stallion foaled in 1911: 1 and 3 Hodgkinson \& Tisdale on Lenoir by Moulinet Lorrain by Hanneton; 2, 4 and 5, Hamilton on Lancastrien by Flenicyele. Stallion foaled, and after January 1st, 1912: 1, 2 and 4, Hodgkinson It Tisdale on Miroton by Harenguet, Mardi by Isaac, an by Pink Borodina. Mare foaled previon to January 1st, 1912: 1, Hogate, on Lacune by Gogel; 2, Hodgkinson \& Tisdale on Leste by Qanzarbar; 3, Telfer on Kaille by Ermite. Mare Poated on or after January 1 st, 1912: 1 and 3
Fodgkinson \& Tisdale on Mela by and Marquette by Hidalgo; 2, Elliott on Malin Tis Tncitatus. Champion Stallion: Hodgkinson a Lisdale on Lenoir. Champion female: Hogate on Shires.
Guelph breed is never strong in entries at the individuals come forward and year a few good Johnson Bros., Croton and John Cuard horse Sons, Highfield, were the two exhibitors Junior, the aged entry was given the champion-
ship over Watall King, Gardhouse's two-year-old
and massive horse with toronto. The former is a Watnall King showed to good advantage and when he adds more substance on top of his excellent
quality of feet and limhs he must be heard from
in the leonest Three mares, Gray Fuchsia, Denstow Fuchsia and Hattie Kitchener competed. The former two for Johnson Bros., and the latter for Gormer two
Hattie Kitchener was Fuschia second. Nicous pis Queed first and Gray
yarar-old gained preference over the other twoand was given the ribben of the other females,
classes.

Gualph; Hodg'zinson \& Tisdale, Beaverton; Geo Hastings Grand Valley; J. A. Milne, Fergus; Sam Mills; J. D. Campbell, Palmerston; Herber Awards.-Gelding or
1 and 4, Crake, on Pat, and Mack; 2, Mourness on High Degree; ${ }^{\text {Rand }}$, Sayles, on King Ravenna and Queen Buttress.. Gelding or mare oaled previous to January 1st, 1912, on line :
and 3, Crake, on Pat, and Mack; 2, Mournaham on High Degree; 4, Clayton, on Daisy Moncreiff, 5, Hillis, on Joe. Gelding or mare foaled on or after January 1st, 1912, shown on line: 1 , Hast,
ings, on Silver Lion; 2, Matthews, on Maud. ings, on Silver Lion; 2, Matthews, on Maud; 3 $\mathbf{1}_{\text {, }}$. Crakse. Team in harness, geldings or mares; 1. Crake, on Pat and Mack; 2, Sayles, on Queen Buttress and King Ravenna; 3, Mournaham
Saugeen Pride and High Degree; 4, Hodgkinson Tisdale, on College Queen and Lady Bain.
HACKNEYS.-As usual the Hackneys we splendid exhibit. Some excellent horses came pronounced as they performed up and was very arena. In the aged class De Wilton and down the were perhaps the closest contestants, but the Colmer horse was superior in nerve and action. Colorito came third and Anticipator fourth.
Brookfield Laddie, the winner of the class under 15.2 hands high and later champion of the urder was indeed an excellent horse. He was a bold, lightly did he touch the ground. on springs, so weil as the remaining light breeds was judged by Dr. J. A. Sinclair, Cannington.
Eximibitors.-Graham Bros., Claremont; Jamee A. Graham, Wyoming; Henry De, Brampton; D. Meaford; J. R. Thompson, Guelph; J. F Co., band, Eden Mills; A. Watson \& Sons, Hus. fall, Gle Allan. W, Mitchell; W. ©. QuickJoseph Telfer, Milton. W. Hogg, Thameesford; Harcourt Blackstock, Thornton; W. F. Batty, Brooklin; R. C. Rogerson, Fergus.
Awards.-Stallion foaled previous to January Wilton, by Drumlanrigy 15.2 and 1 , Semple, on De Wpartan by Prumlanrig; 2, Tilt \& Cheyne, on
Colonius; 3, Graham Bros., on Colorito by Rosador; 4, Douglas \& Co., on Anticipator by Rosador; 5, Graham, on Guelpb vious to January 1st, 1912, under 15.2:1, Hus band, on Brookfield Laddie by Smylett Swell; 2, Forsyth, on Autocrat by Garton Duke; 3, QuickWenona Jubilee by Jubilee Chief. 4, Watson, on on or after January 1st, 1912: Stallion foaled on Paderewski by Vanguard, and Harry Lauder by Warwick Model; 3, Watson, on Wenona Perby Terrington Semaphore. Mare, two on Oscar or over: 1, Husband, on Princess Winyerd by Warwick Model; 2, Telfer, on Princess Eudora by Vanguard; 3, Watson, on Dainty's Maid by
Guelph Performer; 4, Tilt, on Miss Derwent by Derwent Performer; 5, Thompson, on Quickstep Fairy by Commodore. Mare foaled in Quickstep and 5, Blackstock, on Peggy Thornton by Blanch 2, Thomprise, and Daisy Thornton by Blanch Surprise; Rogerson, on Dainty Model by Warwick Model; 4 Batty, on Madge by Spartan. Champion stalfion, Husband, on Brookfield Laddie. Champion

STANDARD BREDS Stmer possess heavy classes, that for aged stallions heTodd largest and containing eight entries. Jim show-ring in this has won many times in the public, was placed first, but it was a surprise to a good many onlookers to see Mograzia and Bonn gave an exhibition to Jim Todd. True it is, he run of breeders the horses but to the general look good. This was ring-side opinion, however and the horse which won may be quite worthy of Mary Regina, belonging to the Cruickston Stock Exhibitors.-A. C. McMillan, Erin; Smith \& Farm, Galt; P. J. Farrell, Woodstock; W. H. Grosch, Milverton; M. P. Barry, Rockwood; Thos
Skinner, Mitchell; D. Douglas \& Sons, Mitchell. Awards.-Stallion foaled previous to January 1st, 1912: 1, Cruickston Farm, on Jim Todd hy
Todd; 2, Farrell, on Mograzia by Moko; 3, Smith \& Richardson, on Bonn by Bingara; 4, McMillan, on Alnared by Allerine; 5, Barry, on Michael Bals
by Steel Arch. Stallion under two years old: 1, Grosch, on Gilbert Patch by Dan Patch; 2,
Skinner, on Dothan by Moko; 3, Cruickston Skinner, on Dothan by Moko; 3, Cruickston
Farm, on Jim Elden by Jim Todd. Mare foaled
previous to .January 1st. 1912.
 foaled on or after Januara 1st, 1.912: 1. Cruick-
ston Farm, on Sheena Todd by Jim Todd; 2,

THOROUGHBREDS．－Some well－known horses aged Thoroughbred stallions．Joe．Nealon，a leety horse which has raced his way from Van－ couver to Guelph was chosen for first place．Nas－
baden and Selwick，as usual，were close contest－ ants．On this occasion Nasbaden was given pre ference over his competitor and Selwick went Exhibitors．－A．E．Burrie，Guelph；John Cov
entry，Woodstock； entry，Woodstock；F．V．Parsons，Guelph；Ronald
Thayer，Aylmer；Wm．Lowes，Drayton；D．McCrae
Guelph；James Bovaird，Bramplen Guelph；James Bovaird，Brampton；James Mc，Mc
Burney，Toronto；D．A．Boyle，Woodstock；E．B Burney，Toronto
Clancy，Guelph．
Awards．－Stallion foaled previous to January 2，Thayer on Nasbaden by Nasturtium； $3, \mathrm{Mc}$ Burney on Selwick by Knight of the Thistle； 4 Currie on Charlie Gilibert by Masetto；5，Lowes on Glimmer by Martimas．Mare foaled previous
to January 1st，1912＇ 1 and 3 Clancy lon by Chuctawunda，and Miss Morgan by
Blaise；2，Boyle on Cast Steel by Pontiac Blaise；2，Boyle on Cast Steel by Pontiac；4， 4 ，
Coventry on Lady Roseberry Coventry by Cruick． lade．
PONIES．－Coming as it did on Children＇s appreciated by the juvenile audience．There is always considerable interest taken in these pet
horses，while their diminutiveness makes them very attractive．In the Shetland stallion class vero horses came forward，father and son，the months．Out of respect，perhaps，preferenre was given the aged horse．R．R．Ballagh \＆Son，
Guelph，who exhibited these horses also showed the champion stallion which happened to

Cattle．
beef cattle
In the report of these classes last ylear we
apoke rather disparagingly of the fit and fleshing well qualified to the classes as a whole were so are obliged to commend the breeders，feeders and exhibitors on the high－class exhibit this year．The
parade of beef cattle was perhaps the best ever een at the Fair and no one could do otherwise than speak in appreciative tones of the cat
axhibit at the Guelph Winter Fair in 1914． SHORTḢORNS
As usual the Shorth less on account of numerical strength．quality any nals were well fitted and the strong classes made showing quite in keeping with the popularity of the awards in all cattle classes．
pion fat animal of the show was exhibited by Pritchard Bros．，Fergus，in the yearling class． venly fleshed．He was sired by Royal Archer， and out of the Shorthorn cow，Molly．
Graham，Wyoming；Jas．McPherson \＆Sons，Dun－ dalk：Adam A．Armstrong，Fergus；John Brown \＆Son，Galt；A．Barber，Guelph；John McLean，
Seaforth；R．F．Duncan，Caledonia；Wm．Argo \＆ mith \＆Sol Henry Larter，Rockwood Frgus； Pritchard Bros．，Fergus；J．W．Duncan，Caledonia； Kaniel Wright，Ariss；A．F．\＆G．Auld，Gueiph ； Kyle Bros．，Drumbo；Herb．Matthews \＆Sons， Smith，Carluke；Wm．James Beatty，Guelph．
1，Barber；2，Russell；3，Brown；4，McPherson； 5，Armstrong．Steer，one year and under two：
i，Pritchard Bros．；2，Russell；3，Barber；4，Dun－ can；5，Argo．Steer under one year：1，Wright；
2，Duncan；${ }^{\text {3，}}$ Smith；4，Brown；5raham． Heifer，two years and under three：1，Kyle；2， 1，Auld； 2 and 3，Heifer one year and under two． 4 and 5，Smith．Heifer
ander one year：1．Parkinson：2 and 3．Auld； 4 and 5 ，Smith．

HEREFORDS
The representatives of the Hereford breed were well prepared for the Show and made a far stronger exhibit than they did last year．The
three exhibitors were James Page，Wallacetown，
Adanı A．Armstrong．Fergus and Henry Reed， Orton．
Awards．－Steer or heifer．two years and under
three：1，Armstrong； 2 and 3 3，Page．Steer or three：1，Armstrong； 2 and 3，Page．Steer or
heifer．one year and under two： 1 and 2 ，Page．
Ster，under one year＇，1，Page；2 and 3，Reed．
Heifer，under one year＇1，2 and 3，Page．Cham－ Heifer，under one year＇1， 2 and 3 ，Page．
Dion animal：Page on a yearling heifier． a berdeen
dodily two competitors broucht forward any
only steer one－vear and under two，while Bowman
secured the money in the class for steer or heifer．
under year and under two．In the class for heifer，
und prizes and Bowman third．The champion animal
of the breed was exhibited the breed was exhibited by Bowman．
This breed was represented
herd of Col．D．McCraesented buelph．Thities from the exhibitor These classes gave and crosses．
production classes a gave a strong impression of beef the breed that won，but the type，and onlooker could see as either Shorthorn，Angus or Hereford neared the honored end that type，and skill－
ful care and feeding were responsibl rather thand feeding were responsible for quality yearling steer of Angus breeding which a jon honors
as the champion butcher calf for Lowe at the as the champion butcher calf for Lowe at the
National Live Stock Show， National Live Stock Show，at Toronto，last year
developed into a steer good enough to win the championship of the grades and crosses，but he went down to defeat before Pritchard＇s short－
horn．It was close，however，and horn．It was close，however，and at the Toronto
Stock Yard show immediately after，the decision Stock Yard show immediately after，the decision
was reversed．The entire show of grades and
crosses was good and the classes were well filled crosses was good and the classes were well filled
with numbers and quality．
Exhibitors．－T．A．Russell，Downeview；D．A． Graham，Wyoming；Adam A．Armstrong，Fergus； A．Barber，Guelph；John McLean，Seaforth；J．
W．Duncan，Caledonia；Fred Armstrong，Rock－ wood；Kyle Bros．，Drumbo；John Brown \＆Sons，
Gatit；H．E．Alton，Jr．，Everton；Peter McLaren， Hillsburg；Henry Larter，Rockwood；Frank W． Smith \＆Son，Scotland；John Lowe，Elora；John
Dickieson，Rookwood；James Leask grave；D．H．Jones，Elora：Daniel Wright，Ariss； J．P．Henderson，Guelph；Wm．Aitchison，Guelph； J．Elmer Woods，Lucknow；Geo．Ferguson， Wockwood；James Leslie，Acton；Jas．Page， Elora；Geo．Amos \＆Sons，Moffat；Jas．Barbour Sr．，Lucknow；Alex．Farquar，Elora；Wm．Fear，
Blyth；Robert McQueen，Arthur；Thomas Forest， Guelph．
Awards．－Steer，two years and under three ：
Russell；2， 3 and 4，Barber；5，Adam Armstro Senior yearling steer：1，Kyle； 2 and 3，Barber steer ：1，Brown； 2 and 4，Leask； 3 and 5，Adam Armstrong．Senior steerr calf；1，Leask； Ferguson；3，Adam Armstrong；4，Henderson； 5 ， Armstrong；3，Wright；4，Leask；5，Page．Heifer， two years and under three ：1．Alton；2，Kyle；3，
Henderson；4，Adam Armstrong；5，Farquar． Yearling heifer： 1 ，Barber；2，Leask； 3 and 4，
Henderson；5，Barbour．Heifer calf ：1，Lowe；2， Leask；3，Fear；4，McQueen；5，Forest．
PURE－BREDS
OR GRADES AND （Open is Sherson Dundalk；Wm Sons，Guelph；Henry Larter，＂Rockwood J．W．Duncan，Caledonia；Fred．Armstrong，
Rockwood；J．\＆E．Ford，Fergus；Peter McLaren Hillsburg；Jack Sullivan，Elora；J．W．Duncan，
Caledonia；John Dickieson，Rockwood；Wm．Snell Londesborough；A．R．Wood，Fergus；D．H．Jonea Elora；Wm．Aitchison；J．Elmer Woods，Lucknow Wm．R．Hamilton，West Montrose；Chas．Mighton，
Ebora；Gardiner Wood，Rockwood；Jas．Leslie Acton；Jas．Cleghorn，Elora；John Wright，Elora； Alex Farquar；Herb．Matthews \＆Sons，Meadow
vale；Robt．McQueen，Arthur；Wm．Fear，Blyth） D．H：Jones Elora． Awards．－Two－year－old steer ：1，McPherson．
Senior yearling steer ： 1 and 2，Argo；3，Larter Senior yearling steer： 1 and 2，Argo；3，Larter；
4，Fred．Armstrong；5，Duncan．Junior yearling
Steer：1，Wood ；2，McLaren；3，Jones；4，
 Snell；3，Wood；4，Mighton；5，J．Woods．Junior
steer calf：1，Cleghorn；2，Dickieson；3，Wright； 4，Aitchison．Two－year－old heifer： 1 ，Farquar
Yearling heifer Yearling heifer：1，Dickieson．Heifer calr： 1 ，
Matthews；2，Fear；3，Cleghorn； 4 and 5，Mc－ EXPORT STEERS．－Five trios of export steers lined up for inspection．with many good in－
dividuals amongst them．．ohn McLean，Sea－
forth，was honored with the red ribbon on three forth，was steers just in prime．A．Barber，of Guelph． had two entries，one set of which were considered
for first place，but they were not so strong nor
considered to possess ali the requirement of ex－ port steers seen in prize winners．T．A．Russell，
Downsview，had the fourth prize trio，and Adam
Armstrong the fifth． Sheep．
The sheep exhibit at the Guelph Winter Fair
has never surpassed that put up this year，and it has never surpassed that put up this year，and it
has not been equalled for a porl many years．
There was an excellent exhibit of Oxfords，which made a stronger showing than usual．Hampshires
were good，Leicesters on an average with other
vears，while the Lincolns made a strong show． vears，while the Lincolns made a strong show．
For uniformity and quality the Southdowns
probably put uD a，stronger exhibit than any
hibited by Robt．WcEwen in five Southdowns ox hibited by Robt．McEwen，Byron，and three of
them captured the Prince of Wales prize．which this year was donated to of Wales prize which John Kelly \＆Sons，showed the sheep department． thick and firmly－fleshed sheep．
COTSWOLDS．－Exhibitors－G．H．Marls \＆Sos Little•Britain；E．Brien \＆Sons，Ridgetown；Jais，
A．Campbell，Thedford；Sam Dolson \＆Son，Nor－
val Station：Jon Station；J．Lloyd－Jones，Burford．
 year： 1 and 4，Camplell；Three ewes under one Dolson．Wether，one year and under two：1， Mark； 2 and 4，Brien；3，Dolson；5，Campbel．
Wether，under one year ：1， 3 and 5，Mark； 2 and 4，Campbell．Three wethers under one yeor： 1 ， Mark，2，Campbell；3，Brien；4， 4,
Dolson．
Champion Wether，
LINCOLNS．－Exhibitors．－H．Lee，Hilghgate；L Parkinson，Guelph；Peter A．McIntyre，Parkhill
John S．Gosnell \＆Sons，Highate； Denfield；John Kelly \＆Son，Shake；Jos．Linden， 2，Awards．－Ewe under one year： 1 and 1 ， 2，and 5，Gosnell；3，Linden．TMaree ewee under
one year：1，Lee；2，Goemell；3，Linden；4，Parl
inson．5：M， one year：1，Lee；2，Gosmell；3，Linden；4，Park－
inson；5，McIntyre．Wether，one year and under
two two：1，Lee； 2 and 5 ，Linden； 8 ，Kelly； 4 ，Goe
nell． den；2，Parkinson；5，Lee．Three wethere under one year ：1，Linden；2，Lee；8，
Gosnell．Champion wether，Lee，
Son，Shakespeare，－Brhibitors．－John Kelly Son，Shakespeare；A．\＆W．Whitelaw，Guelph； Awards．－Ewe under one year ： 1 and Mitohell． law； 2 and 3，Kelly；5，Clark．Theree ewes under one year：1，Kelly；${ }^{2}$ ，Whitelaw；3，Clarly ${ }^{4}$ ，Woy
Roy．Wether，one year and under two：1，Roys Roy．Wether，one year and under two： 1 ，Roys
2 and 5, Kelly； 8 und 4 ，Whitelaw．Wether un－
der one year， der one year ： 1 and 4 ，Kelly； 2 and 5 ，White law；8，Roy．Three wethers under one yearl：1， OXFORDS．－Exhibitors．－Glenn W．Witham Filla Nova；Karl Broadfoot，Allenford，E，Barbourr Sons，Teeswater；W．E．Wright \＆eter Arkell worth；A．T．Stevenson，Atwood．
Arleell；3，Barbour under one year：1， 2 and 4 der one year：1，Arkell；2，Barbour； 8 ，Withen 4，cerswell；5，Broadfoot．Wether，one year and
under two：1，and 2，Arkell；3，Wright；4，Stoven． son；5，Barbour．Wether under one year： 1 Barbour； 2 and 8 ，Arkell； 4 ，Atevenson： 5 ，Corr，
well．Three wethers under well．Three wethers under one year：：1，Arkorll， wether，Arkell \＆Sons，
SHROPSHIRES．－Exhibitorn．－J．\＆D，J． Campbell，Woodville；Erneet Fleming，Tara，Joho B．Kelsey，Woodville；J．E．Brethour \＆Nephews， stead \＆Sons，Abingdon；Peter Arkell \＆Sons， Teeswater；W．G．Wright \＆Son，Glanworth． Awards．－Ewe under one year：1， 8 and A，
Campbell；2，Brethour．Three ewes under one Campbell；2，Brethour．Three ewes under on 1，Wright；2，Arkell；8，Springatead；4，Compbell 5，Kelsey．Wether under ong year：1，Campbolk Three wethers under one 4，Campbell；5，Kelecg． Lloyd－J ones；8，Camphell， 4 ，Keleey．Chermplen SOUTHDOWNS
Byron；J．W．Springstead Hampton Bros．，Fergus，Geo．Bakens，Ablingdow， Wyoming；S．Lemon，Kettleby；Peter Arkel © Sons，Teeswater；Geo．Ke Telfer，Paris． McEwen；4，Hampton Bros．Three ewes unde， one year：1，McEwen；2，Hampton Bros．； Springstead；4，Baker；5，Lloyd－Jones．Wóthior one year and under two ： 1,4 and $5, \mathrm{McEwon}$ ； 2,
Springstead； 3, Arkell．Wether under one year： 1 and 3，McEwen； 2 and 4，Hampton Bros； Mpringstead．Three wethers under one year： 1. Telfer；5，Baker．Champion wether，MoEwe． \＆Son，Glanworth；Jas．Robertson E．Wrigh Hornby． Awards．－Ewe under one year： 1 and，
Robertson；2， 4 and 5 ，Wright． Robertson；2， 4 and 5，Wright．Wether one yoa
and under．two ：1，2 and 4，Wright；3，Robertson
Wether under one year：1，2 and 4，Robertson Wether under one year： $1,2,2$ and 4 ，Robertson
3 and 5 ，Wright．Three wethers under one year Wright．Champion wether

HAMPSHIRES AND SUFFOLKS．－Exhłitor －Geo．Henderson，Guelph；John Kelly \＆Son Auelph． Awards．－Ewe under one year：1， 2 and 5 ，
Kelly； 3 and 4，Telfer．Wether one year and un．
der two ：1．Kelly；2，Bowman：3 Hender der two：1，Kelly；2，Bowman；3，Henderson． Kelly 2 and Kelly．Champion wether，Kelly \＆Son

蹅

Son, Ridgetown; John Kelly \& Son, Shakespeare
A. © W. Whitelaw, Guelph; H. Lee, Highgate A. \& W. Whitelaw, Guelph; H. Lee, Highate John S. Gosnell \& Son, Highgate; Jos. Linden,
Denfield; L. Parkinson, Guelph; Jas. A. Campbell
Thedford; Jas. Roy, Mitchell.; T. Thediord; Jas. Roy, Mitchell; J. Lloyd-Jones
Burford; J. \& D. J. Campbell, Woodville; John R. Kelisey, Woodville; W.E. Wright \& Son, Gohn
worth; S. Lemon, Kettleby; J. A. Cerswell, Bond worth; S. Lemon, Kettleby; J. A. Cerswell, Bond Wyoming; Gae. L. Telfer, Paris; J. A. Gráham
stead \& Son, Abingdon; Jas. Robertson \& Sons Hornhy; Jas, Bowman, Guelph; Peter Arkell \& Sons, Teeswater.
Awards.
year and under two: 1, Linden; 2, Gosnell; 3 and 4, Lee; 5 , Whitelaw. Wether under one year : 1
and $\mathbf{3}$, Parkinson; 2, Kelly; 4 and 5 , Linden. and 3, Parkinson; 2, Kelly; $\$$ and 5, Linden.
Three wethers under one year: 1, Parkinson; 2,
Cinden; 3 , Kelly; Champion wether, Linden.
(Short Wooled Breeds).-Wether one year and
under two: 1, Kelly; 2, Lloyd-Jones; 8 and 5 , Comphell; i, Kelsey. Wether under one year : 1 , wethers under one year : 1, Arkell; 2, Campbell; 3. Kolsey; 4, Lloyd-Jones;' 5 , Wright. cross, Kelly \& Sons

Dressed Carcasses.
CoTSwoLD.-Wether one year and under two: year: 1, Jrien; 3, Dollson. Wether under one Brien; 4, Dolson.
IINCOLNS.-Wet
LINCOLNS.-Wether one year and under two 1, Parkinson; 2, Gosnell; 3, Linden; 4 and 5, Le two : 1, Whitelaw. Wether one year and under two : 1, Whitelaw. Wether
Kelly; 2, Roy; 3, Whitelaw.
Cerswell; 2 and 3, Stevenson; 4 , Barber two Wright. Wether under one year Barbour; 5,
Stevenson.
SHROPSHIRES.-Wether, one year and under
owo : 1, Springstead; 2,3 and 4 , Kelsey. Wpringstead; 2, 3 and 4, Lloyd-Jones; Kelsey. Wether under one year: 1
Brethour; 3 and 5, Kelsey; 4, Lloyd-Jones wo: 1 and 2 McEwen, 3, Baker and under Cemon; 5, Lloyd-Jones. Wether under one year: 1, McEwen; 2,
d. DOYy
der two
Wether

DORSET HORNS.-Wether
ether under 3 and 4, Wright; 2, Robertson
HAMPSHIRES AND SUFFOLKS, Wether pear and under two: 1, Henderson. Wether under one year : 1, Kelly; 2, Henderson
Grade or Cross sired by ram of reed.-Wether, one year and of long-woole Brien; 2, Gosnell; 3, Linden; 4, Whitelaw. Wethe under one year: 1, Whitelaw; 2, Linden; 3, White
law; 4, Lloyd-Jones; 5 , Roy law; 4, Lloyd-Jones; 5, Roy.
Grade or Cross sired by ram of short-wooled breed.-Wether, one year and under two, 1,
Lloyd-Jones; 2, Baker; 3, Wright; 4, temon; 5 , Cloyd-Jones; 2, Baker; 3, Wright; 4, Iemon; 5
Cerswell. Wether under one year : 1, Wright; Keisey; 4, Telfer.
wolds, Chas. Shore, Glanwoedsth; Lere: Cots-
Jasicesters,
Gibson, Dengas, Caledonia Lincolns, Harry Gibson, Denfield; Oxfords, W. H. Beattie, Wilto Noel Gibson, Far Hill, N. J.; Southdowns, J. C Duncan, Lewiston, N. Y.; Dorset and Short
Wooled Grades, R. H. Harding, Thorndale; Long Weoled Mrades, Jas.
Gerris, London

## Swine.

Tittle to be desired. Ine exhibit of swine let was about up to that of sumerical fortreength ih


 Wilson, Fergus.
Berkshires have been out in considerably
larger numbers than this year, but were nower better in modern type and quality. They were
axhibited by J. S. Cowan, Atwoor. Sam Ders
 Tamworths were exhibited
Sons, Mitchell, without competition. Nouglas \& at the judging ring was not much in evidence, al Chester Whites
Coursey, Mitchell, and W. E. Wrimht \& S. D. D worth; two breeders whose entries have fon several years past foucht for surremacy at al
the leading Ontario shows, and alwavs with well deserved interest owing
their judges have to make
Any other pure breed was represented hy an
extensive and high auality exhibit of Hampshires
xtensive and high auality exhihit of Hampshirea
dock, Jos. Featherston \& Soxhibited by Wm. MurStevenson, D. De Coursey, D. Douglas \& Solk, A. Sam Dolson \& Son, J. S. Cowan, Pritchard Bros., and D. Lerch, Preston. The awards in Hamilton, on Yorsshires and Grades or Crosses: H. B. Jeffs, Bond Head, on Berkshires ; J. C. Nichol, Wilton Grove, on Tamworths; J. D. Brien, Norval Station, on any other pure-breds. Awards.-YORKSHIRESS-Barrow, 6 months
And and under $9: 1$, Featherston;
4, Stevenson. 2 and 3 , Duck;
Barrow under 6 months: 4, Stevenson. Barrow under 6 months: 1 ,
Featherston; 2, Brethour; 3, Stevenson 4, Wilson. Sow, 9 months and under $15: 1$, Featherston; 2 and 4, Stevenson; 3, Duck. Sow, 6 months and
under $9: 1$ and 3, Brethour; 2 and 4, Duck under 9: 1 and 3, Brethour; 2 and 4, Duck. Sow under months: 1, Murdock; 2, 3 and 4, Duck. Champion barrow, Featherston; champion sow, Featherston; best barrow and best sow ex-
hibited by an amateur, both went to A. Stevenson. berksh an amateur, both went to A. Steven-
BERKSHIRES.-Barrow, 6 months and under der 6 months: 1 , 3 and 2 , McEwen; 3, Barrow unDolson. Sow, 9 months and under $15: 1$, Dol-
son; 2 , McEwen; 3 Then, 6 months and under $9: 1$ and 3, Thompson. McEwen; 4, Cowan. Sow under 6 months : and 2, Cowan; 3 and 4, McEwen. Litter of 3
1 and 3, McEwen; 2, Cowan. Champion barr 1 and 3, McEwen; 2, Cowan. Champion barrow
McEwen; champion sow, Thompson. Under 9 STER WHITES.-Barrow, 6 months an under 9: 1 and 3, Wright; 2 and 4, De Coursey. Barrow under 6 months: 1 and 2, De Coursey;
3 and 4 , Wright. Sow, 9 months and under 15;
1 and 3 , and under $9: 1$ and ${ }^{1}$, Wright. Soursey; Sright 6 months Coursey. Sow under 6 Wright; 3 and 4, De Wright;' 2 and 3 , De Coursey Litter of $3: 1$ Wright; champion sow, De Coursey
GRADES OR CROSSES.-Barrow, 6 months and under 9: 1, Duck; 2, Dolson; 3, Featherston son; 2, Douglas; 3, Pritchard 6 months: 1, Dol Sow, 6 months and under 9. 1 Dough, Murdock son, 3, Featherston; 4, Lerch. Sow under 6
months: 1, Cowan; 2, De Coursey; 3, Dolson; 4,
SPPECIALS for best barrow of any breed an best sow of any breed, offered by the Caldwell
Feed Co., of Dundas, went Duck, and on sow to Jas. Featherston $\frac{\text { to }}{\&}$ Soh. bacon hog shown by an amateur, was wor best D. Lerch, of Preston; and same special from
Lambton County went to P. J. McEwen, EXPORT BACON HOGS,-The entry in bet and while the and grade classes was a large one fair standard some previous youg was up to a all-round better finish and uniformity seen an easy tops very much lightened the task of the judges,
awards for two pure-breds were : Nichol. The
Brethe
1,4 , and 8
8 Brethour ; 2,3 and 9 , Duck; 5, Stevenson; 6
Douglas; 7, Murdock; 10, Featherston grades or crosses : 1 and 3, Duck; 2, Brethour
4 and 6, Cowan; 5, Wilson; 7. Featherston

## Poultry

The Ontario Provincial Winter Fair is the final round-up of poultrymen, particularly for Western
Ontario. are safe in saying that strong show, but we
year's show been larger numbers, but not so high quality been entry list comprised this year close to 5,000 birds, and the general average of quality was higher than
it has ever been at this or any other exhibition of its kind held in Canada, The most striking
feature of the general-purpose classes was the strong exhibit of White Wyandottes, over the 200
birds were the strongest class of the show, and from their number came the champion bird over all
breeds and ages, being a cockerel shown by Sid Saunders, of Ingersoll. He was truly a wonder-
ful bird, for the highest award have been closely pushed privileged to look upen, thibe we have ever been
hen from the being a Buff Cochin ont. She was the hest all-round hen we have ever seen. Barred
Rocks were as usual a very strong class, both
numerically and mumerically and qualitatively, Strong class, Woth
made their usual strone falling off in Rhode Istand Reds and Orpingtons.
Thw extritit of dressed poutre was tries than a year aco the very few more of dimedy in adianco of the showing made at that
 There weme a new feature at the fair birds, the
general quality of the exhibit pleased poultrymen the Direct credit must be given the Secretary, and those donating specia the poultry interests, quality of the exhibition. It was a good object lesson in dressing and packing fowl, and visitors look shown what a really well-finished bird should look like, and how they should be prepared and
packed for market either close by or remote. To give our readers some idea of the comparative size of the exhibits of the different
breeds and classes, we may say that in White Wreeds and classes, we may say that in White cockerettes and 63 pullets; in cocks, 43 hens, 66
warred Rocks there cockerels, and 63 pullets; in Barred Rocks there
were 39 cocks, 38 hens, 47 cockerels and 52 pullets; in Rose Comb Rhode Island Reds there
were 22 cocks, 20 hens were 22 cocks, 20 hens, 21 cockerels, and 42
pullets; in single $C$ ( were 15 cocks, 21 hens, 28 cockerels Reds there White Rocks were strong with 18 cocks, 22 hens 23 cockerels and 24 pullets; in single comb White Leghorns there were 26 cocks, 35 hens, 48
cockerels, 42 pullets, while in Brown Leghorns single comb, there were 19 cocks, 25 hens, weakerels and 28 pullets; Buff Orpingtons weallets being forward. The cockerels, and varieties of Orpingtons were just a shade stronger numerically than the Buffs. Rose Comb White Leghorns were a weaker class than usual, but ccckerels, 26 pullets being forward. Mino 20 single combed black, had 18 cocks, 28 hens, 26
cockerels, and 23 cockerels, and 23 pullets, while Andalusians had 40 birds
All the Asiatic breeds of poultry were wel]
represented and fully up to last year's show. Turkeys and water fowl made an especially
strong exhibit. There were about 80 turkeys in the crates and. 56 Theere were about 80 turkeys in alone there were 54 entries.
Taken all around the poultry breeders were ex ceedingly well pleased with the outcome of this year's exhibition
Judges-H. S
Judges-H. Schwab, Irondequoit, N. Y.; Geo
Henderson, Hamilton; Jas. A. Tucker, Concord Henderson, Hamilton; Jas. A. Tucker, Concord,
Mich.; Richard Oak, London; Geo. Robertson Ottawa; Jos. Bennett, Toronto; Wm. McNeil London; W. C. Baldwin, Ottawa; L. G. Jarvis,

Toronto Junction Fat Stock Show. market demonstrate to producers and shippers o breed the kind sheep and swine, that it pays to to give them the best care and feed so as to command the highest price when sold, was the object that actuated the management of the Union Stock Yaras at West Toronto and decided them to Stock she inauguration of the Toronto Fat short spow live years ago, a show that in the competitors in the years has far outstripped all and is already recognized as the final battle ground of the year where the finished products
from the hand of the master fitters and feeders meet in the last great struggle for supremacy. an entry showing a better balance of fleshing and quality, was the urranimous opinion voiced by
many of the large attendance this year. One many of the large attendance this year. One would appear to be of more than passing interest shown to a lighter ce was the-marked preference shown to a lighter class of cattle. The trade of excepting for export purposes, he is a thing of the past among Canadian dealers. Another fea-
ture of the show is a thing of cure of the show that is becoming more popular and interest increasing as Division, its popularity is held becomest more generally known. It is strictly an amateur show, and is confined to entries of employees of the Stock Yards, the Abat-
toirs and the Railway employees whose servicea are in and around the Stock Yards. The show this year was a most creditable one. The entry was larger and the quality high. This feature most important poultry shows of the Province The total entry this year for competition was, cattle, 1,099; sheep, 722; swine, 850; of single entries in the cattle classes there were 179 ; of
these 37 were pure-breds and only 7 of them
females. The grade steer "Hector," ownsd by Johm Brown \& Sons, of Galt, Ont., was the wy Johm
the grand championship of hred Shorthorn which was champion at Guelph. "Hector" is a cross-bred steer, bred by John Lowe, of Elora, and was champion butcher's call at the big National Show held in Toronto in the . anuary 20th, 1913 , sired by "Hundred," a
registered Polled Angus bull-dam, a grade Short-
horn cow.

DECEMBER 17, 1914
THE FARMER'S ADVOCATE.
500.00 gold watch, which was presented by the
Toronto World to the herdsman freeding the grand
champion steer-in this case John A. Brown, Jr.

This firm of feeders also exhibited a mixed loat of pure-bred and grade Shorthorns, mixed
won first in class-". Carload of fifteen steers unwor 1,250 pounds," aiso Harris Abattoir Special
dor "Carload of fifteen steers, without horns for "Carload of fifteen steers,, without horns,
weighing under 1,300 pounds," and Matthews-
Blackwell Special weighing under 1,300 "pounds," and Matthews-
Blackwell Special for "Ten best steers, without
horns, weighing under 1,150 pound horns, weighing under 1,150 pounds."', This lot
won prize money amounting to $\$ 700$. 00 , won prize money amounting to $\$ 700.00$, a most
unusual showing.
Awards.-Grand champion steer, John Brown
\& Sons. Galt. Pure-bred steer, two years and
under three: 1, A. Barber, Guelph. under three: 1, A. Barber, Guelph; 2, A. A, Armstrong, Fergus; 3, T. A. Fussell, Downsview; 4, J. A. Ferguson \& Sons, Mapleton. Pure-bred
steer, one year and under twol: 1, Pritchard
Bros., Fergus; 2,- Jas. Bowman, Gueiph; 3, Duñ can Bros., Caledonia; 4, T. A. Russell. Pure-bred steer under one year: 1, A. White, Guelph; 2,
Duncan Bros.; 3, Wm. Marquis \& Sons, Sunderland; 4, Alex. Young, Mount Hope. Pure-bred
fat heifer, two years and under three : 1, John Armstrong, Belgrave. and under three : 1, John der one year: 1, F. J. Black, Fergus; 2 and 3 ,
David Smith, Carluke. Grade or Cross-bred two years and under three: 1 and 2, T. A.
Russell; 3, J. J. Reid, Teeswater; 4 and 5, A. Barder. Grade or Cross-bred steer, one 'year
and under two : 1 , John Brown \& Sons; 2 and 5 and under two : 1, John Brown \& Sons; 2 and 5 ,
Jas. Leask \& Sons, Seagrave; 3, A. White; 4, Kyle Bros., Drumbo. Grade or Cross-bred steer,
under one year : 1, R. J. Black; 2, A. A. Armstrong; 3, D. Munroe, Pickering; 4, A. White; 5 ,
H. Wade. Grade or Cross-bred fat cow, three years and over: 1, F. C. Willmott \& Son, Mil-
ton; 2, M. Thomson, Chesley; 3, B.•E. Hicks, Cenirs and Grade or Cross-bred fat heifer, two years and under three : 1, H. R. Cross, Beeton;
2, A. White; 3, Kyle Bros.; 4, A. A. Armstrong.
Grade Gra. or Cross-bred fat heifer, one year and un-
der two : 1, A. White; 2, A. Barber; 3, H. R dèr two: 1, A. White; 2, A. Barber; 3, H. R.
Cross; 4, A. White. Grade or Cross-bred fat
heifer under heifer, under one year: 1, A. White; 2, Jas. Leask
$\&$ Sons; 3 and 4, Andrew Hicks. Carload fifteen steers, 1,250 tbs. and over: 1, A. Barber, Guelpht
2 and 3, J. D. Ferguson \& Sons. Carload
and ${ }^{2}$ and 3, J. D. Ferguson \& Sons. Carload Son; 2, R. J. Black; 3, J. D. Larkin, Queenston.
Special, best carload fifteen steers, without horns, weighing under 1,300 tbs. : 1, John Brown weighing 1,150 ms. or under : 1, John Brown \& Son. Special, carload twenty feeder cattle,
steers or heifers, without horns, under 1,050 lbs. steers or heifers, without horns, under 1,050 ibs.
each: 1, R. J. Black, Fergus; 2,. John Hall, LonM. Thomson, Chesley; 2, A. White; ${ }^{\text {dither }}$, R. J. Black. Special, carload fifteen butchers' heifers,
without horns, each 1,100 ths. and under : 1, A.
White and under two: 1, John Houston, Chatham; 2, Stanley. Pen of three, wethers or ewes, under one year: 1, J. W. Elliott, Varna; 2, L. Parkin-
son, Guelph; 3, J. D. Ferguson \& Sons. Car lot,
fifty fat sheep : 1, John Houston, Chatham. Car lot, fifty lambs, wethers or ewes : 1, J. D.
Ferguson; 2, A. Barber. Farmers' dago; 3, L. Parkinson. Pen of three wethers or ewes, one year and under two of 1 and 2, , J. S. S.
Baker, Burford; 3, J. Lloyd-Jones, Burford. Pen
of three W. Springsted, Abingdon; 2, D. Ranley, Cainsville; 3, J. D. Ferguson. Car D. Ranley, Caify fat heoep-
1, John Houston; 2, J. D. Ferguson \& Sons. C"ar guson \& Sons; 2, C. F. Jackson, Port Staniey; 3,
R. Cown Special : 1, J. Wrown \& Springsted, Abingdon; 2, J. S.
Baker: Baker; 3, E. Burt, Paris. Pen, three barrows,
bacon type, $170-225$ Ibs.: 1 and 3, J. K. Feather-
ston, Streetsville. 4, C. B. Boynton, Dollar. Boys Hog Feeding Competition, pen of three barrows, bacon type,
170-225 tbs.: 1, Geo. Williams, Streetsville; $2, J$ J.
A. Goodall, Jr. Belwo lar. Farmer's Special, pen three barrows, bacon
type, $170-225 \mathrm{~ms}$ : 1, J. A. Goodall, Jr.; 2, C.
 exhibitor, $170-225$ ths, $1, ~ 1, ~ W, ~ B . ~ H a r r i s o n, ~$
Downsview; ${ }^{2}, \mathrm{~J}$. K. Featherston; 3, J. T. Broad,
Pefferlau. Carload, fifty bacon hogs, $170-225$
los.:
 average $170-225: 1$, Graham \& Nerrick. Special,
carload fifty bacon hogs, $160-190$ its., individual
weights: 1 , Graham \& Merrick Special, carweights: 1, Graham \&\& Merrick. Special, car-
load fifty bacon hogs, $170-200$ Ths., individual
weights: 1, Graham \& Merrick. At the sale of fat stock exhithited at the Tor-
onto . Whaction Show, Hector, the winning steer,
Was bourht by the T. Eaton Co. at 25 cents per
to., oth.w.s sold at from $\$ 12.50$ to $\$ 16.00$ per
cwt

The Maritime Winter Fair Was helld in Amherst on on Dec. 7, 8 . 9 Wind 10 Fair was a great success. In many respeocts the ex
hibits The Deiry Test has any former show. ture of the Maritime Fair, but this year's show
was far ahead was far ahead of any former exhibit. There show inety-nine cows in the test, and scarcely any in own . Samuel Dickey a dairyman would be proud to are justly proud of their Holstein cow "Miss Sa
Handa," a cow of their own bred
 yppical Holstein in form; her yield of milk in the
three days tas 273.8 nbs., contatining 10.51 tbe. beats, the woking a sorid's ofe of 332.57 points, which about 16 points. The great achievement of this
cow makes all Maritime Provice of heer, and thows the world that we han prould been wrong in claiming that the provinaeve not the
sea are well suited for successful dairying, and
that and that we are gotting some of the bestr stock that
money can buy. Meesrr. on threenear-olds and championship for feest
 Wm. Harding
young Holsteing, of Wellsford, N. B., showed four winning third on three year-old cow, and second, third and fourth on yèarlings.
T. W. Keilor, of Amherst $P$.
one Hoistein thro of Amherst Pt., N. S., showed grade Holsteins, and arentold and a fine lot of
the ageod cow class, making on grade cow in
 the same class, there being only three one hundredths of a point between the frrst and soc-
ond- prize cows.
Courtney Susher ond- prize cows. Courtney Susby, of West
Amherst, a young man and a new exhibitor showed a good large two-year-old grade Holstein, and won fourth in a hard class; second and third
in this class were won by W W in thistein heifers. Lee \& Clarke of Victoria P. E. I., showed three Hoisteins, all of which are good workers. P. S. Hicks, of Delhousie Jet.,
N. B., has four young Holsteins, winning third on three-year-old. and second, third and fourth on
yearlingr yearlings. Stanley A. Logan, of Amherst Pt.,
showed two Holstein winning firrst and third on and two yearlings,
yearling
making 162.4 the . mikings 5 , the first first yearting making 162.4 ibs. mivk, 5.44 Tbs . fat,
and a score of 175.3 points. Guernseys were shown by H. A. Dixon, of On-
slow, and D. G. McKay Dixon winning third on cow, first on yearling 112.09 points; frrst om two-year-old Guernsey with 126.2 1ss. milk, 6.6 . 1 ss . fat and a score of 184.53 , also third on Guernsey cow and first on
grade two-year-old, with a hiph-grade Guernsey gradi two-year-ord, wilth a high-grade auernsere of 151.6 points.
showed five Guerneeys Son, of Scotsburn, N. S., sow class on "Ruby," making 148.7 Its. milk
7.3 mile 7.3 Hbs. fat and a score of 214.15 points, als",
winning second in this class on "Flora's Heiress." Messrs. McKay also won first in the three - year-

 beautiful string of fourteen Jerseys, most of
which were winners at the fall shows, thus demwhich were wine fort that a typical Jorsey can be
onstrating the fact
a producer. J . E. Baker \& Son, of Barronsfield,
 Ibs. milk, also first on three-year-olds, making 103.8 1ts. milk, 5.14 two feat and scoring 156.88 points, and first on two-year-old Jersey, making 98.8 .1bo
mill, 4.92 the, fat and scoring 151.5 point J. R. Semple, of Brule, N. S., showed two grades and thre Jerseys, winning first on yeariing grade
making 67.5 foss, milk, 3.82 1bs. fat and scoring 114.4 points. Mr. Semple also won three second prizes on his Jerseys.
A. McRee Sons, of Charlettetown, P. E. T., showed a fine string of thyrshres, ws and the cow
were prize winners at the fall show, and the were prize winners at in the test as a three - year-
that won first place in the old was also first in her class at St. John and female Ayrshire, champior at Charlettetown. She
 scoring 141.67.
John Retson
cow and a two-year-ould of the good, deep-badied heavy-milking kind; George Retson, of Brookside,
N. S., an aged cow, a two-year-old, and a three





In the beef cattle class the exhibits were superior to last year, both in number and qual-
ity orrest Hros., of Amherst Point, showed a
fine row of Herefords, Shy fine row of Herefords, Shorthorms and wrades brought out in good condition. In any and and were
Horefor Bros. won Polled Angus and Galloways, Forrest ing honors wime majity of the red ribbons, dividGrove, P. E. I., who showed a really good lot of
Poiled Angus, low-set, thikesh out in splendid fit. In aged cows Laird won year-olds thirorrest Forrest second and fourth; in two-
ond; in seirior
ond and third, Laird second; in senior yearling the order was the same,
and in junior yearling heifer Laird won fret second. In the grades of any breed Forrests won
a large share of the prize si. kare of
Shorthorns. were shown by Harold Etter,
Hazen Etter, C. H. Angue, of Carringto R. A. Snowball, Chatham, N. B.; Geo. M. Holmea, Amherst; Demont Freeman, Amherst, and Geo. A.
Black, of Westmorland Black, of Westmorland Point. The sweepstakes
for best Shorthorn any ball, on a beautiful roan two-year-old he hifer, Snow-
bith
Harold Harold Etter's cow a good second. Harold Etter showed seven Shorthorns, two Herrefords and three graces, and won irst on aged Shortond and third on two-year-old heiffer.
Aoint, were among the Etter, of Westmorland Point, were among the exhibitors of grade
beef cattle, and carried away a goodly number beef cattle, and carried away a goodly number
of the red ribon and the special given hub the
Shorthorn Breeders' Association for the beat steer sired by a Shorthorn bull.
Edward Anderson, of Sackville, N. . B., showed
Herefords and grades, and had some really good stock. Geo. A. Black, of Westmorlend Poinod beginner, showed a good Shorthoriand cow and, a a
junior yearling. junt yearing.
The show of sheep was ahead of last yoar,
both in numbers and quality. The princip hibitors were I. J. stewart, The principal exwith Shwerphires and grades, of Ainhngrat Point, hig share
of the ribbons and the specials for big best four of the ribbons and the specials for best four
lambs, the N. B. Fence Oo's. special for bees four
wether Tambs, the N. B. Fence Co's. .special for beot four
wethers, and the Royal Bank
tapecial for beost shearling and lamb, shearling and two-year-old ower J. IE
Baker \& Sons showed a fine flock of Oxforde, and
 Pugsiey, of Barronsfield, showed Lincolins, some
oxtra good ones, and brought out in good conextra good ones, and brought out in good con-
dition. ${ }^{\text {Iliver }}$ Saunders, P. P. I., showed
 good form.
The show of hoge was, from a bacon hog Ptandipont, the best ever put on in the Maritime
Provinces; most of the classes were well flled and required the greateat carre on the parti. of the
judge to determine where the awards should be judge to determine where the awards should be from P. E. Iasand, thoukh J. R... Semple, Brule;
J. I. Stewart, Amherst Point; the Mespers. Etter, of Westmorland Point, and others gave their
Isla Island competitors all the competition they competition wome not the classes. The dresed years, but the quallity, especially of the hog
carcasses, was the best ever ehown of The show of poultry was immene
about two thousand birds of all clasenere being dottes and Plymouth Rocks predominated, but
there was and Rhode Island Reds. The show of ducks
and peese and turkeys was fully up to former years,
and the display of dressed poultry while not and the display of dressed poultry, while not up
to the last two years, made an intereeting part show.
showing exhibit of the Department of Agriculture, and marketing eggs, added to the interest of the show, and rave a good deal of valuable informa-
tion to exhibitora The exhibit of and spectators.
very much larger and better than poter belore. The past season was a good one for Mariorime.
farmers, and the quality of the grain showed The cisplay of frutt was not guite showarge tit: shown was extra good.
The wool exhiblt put on by the Department of Agriculture was interesting and instructive. The evening addresses were of high order, espe-
cilly those of Dr. C. C. James and Prof. Cum-
ming ming.
The attendance from outside points was better
than ever, but that of the people of the town of Amherst was not quite so larese as usual, and al-
thourh the weather was generally fine and the roads good the total attendance was rather he
low that of some former shows.
C. H. B.

The grain exhibit at Guelph was one of the


Toronto, Montreal, Buffalo, and Other Leading Markets.



## Buffalo

The past week the best Canadian shlp
ping steers sold
from 88.85 to 89.
good kind from $\$ 8.50$ to $\$ 8.60$, with
plain
$\$ 7.85$. and less desirables from $\$ 7.50$ to
Few handy butchering stero
 the best handy heifers offered ranged trom $\$ 6.85$ to 87.50 . Heavy, fat cows.
which have been bringing from $\$ 6$ to $\$ 6.50$, are down to 5 . 75 .
the Recipts for the past week were 5,030 head, ap against 4,125 for the previous week, and
6,375 tor the correspondion ago. Quotations. - Canadian evhipping steers-Choice to prime, 88.75 to $\$ 9$. fair to good, $\$ 8.25$ to 88.60 . Butchering
 to 89. Cows and heifers. Prime weighty heifers, $\$ 7.75$ to $\$ 8$; best handy butcher
heifers, $\$ 7.25$ to $\$ 7.50$; common to good heiters, $\$ 7.25$ to $\$ 7.50$ common to good.
$\$ 8$ to $\$ 7$, best heavy fat cows, $\$ 6.50$ to 877 EVod butchering cows, 85.75 to
86.25 .
 $\$ 7$ to $\$ 7.25$; good butchering, $\$ 6.25$ to Week started with an $\$ 8.25$ market tor Western and Canadian hogs, and before the
week was out, prices on Westerns droppee (wo toan with Canadas selling at 87.3 lay at $\$ 7$...5., and anipeg pigs sold of decks of Canadian hogs went
nuarantine
$\qquad$
$\qquad$
$\qquad$



Prospice.
By Alan Sullivan, in the Globe. The ancient and the lovely land Ie Bown with doath; across the plain
Ungarrered now the orchards stand The Maxim nestles in the grain. The shrapnel spreads a stinging flail
Where pallid nuns the cloister trod, Where pallid nung the cloister trod, The air-ship spills her leaden hail
But-after all the battles-Cod.
thwart the vineyard's ordered bank Silent the red-rent forms recline,
tnd from their stark
and spechless There fows a richer, rudior wine; The victors writhe undon the sod, Vor hed the onward buglecall;
But-atter all the bugles-God.
Hy night the blazing cities fare The rocking ramparts tremble ere The sullen cannon boom reply, And shattered is the temple-spire,
The vestment trampled on the The vestment trampled on the clo Xnd every artar black with fire
But-after all the altarss-God
And all the prizes we have won
Are buried in a deadly dust The things we set our hearts is upo Beneath the stricken earth are thrust Ggin the Savage greets the sun,
Again his feet, with tury shan Again his feet, with fury shod
Croses a world in anguish run But-after all the anguish-God.
The grim campaign, the gun, the swor
The quick volcano trom the sea, The quick volcano from the sea,
The onor that reveres the word, The eacricee, the agony-
These be our heritage and pride Tiil the last despot kiss the ro We mark-behind our triumph-God.

Housekeeping and Gar dening Competitions for Girls.
what eastern ontario is doinc PEOPLE TO BE MORE Efficient.
An instlutution has been growing up in
Uttawa which is certain to have a great Uttawa which is certain to have a great
ofect upon agricultural practice in the district, unon agricultural practice in the the
may, by
example and inAuence, , greatly improve the conditions
of rurar lite throughout ontario, and even the Dominion at large. This is
the organimed srowing among the farm in potate The
third year oi this competition was brought to a close on Saturday, Novem-
ber 21, with the distribution at a public meeting in ottawa city Hall.
The work The work was at frst confined to the
County of Carleton, but, alter one year's
 Rusell, within whose limits part of
the city of ottawa lies. The results
its. those who have been so satistactory to pre doing the work and pro
vidiny the med viding the money, that it has now been
flecided to adapt the iden to provide a compentition amongst farm girls. This,
ah anybody can see who will consider
the matier tor so simple as the potato growing com-
petition among the boys. To cultivate $_{\text {Io }}$ In girls the ability to carryy on a garden
is not enough, tor, when these girls be come tarmers' wives they will be house
keepers rather than gardeners.
lotter
long consideration, and the reiection of long cornther teran eand the reejection of
plan anter plan, a a scheme nas been evolved which, it is hoped, will be com-
pletely sulccossfull

Ing the competition amongst the boys, herely one year but it will cover no
 petitions in both gardening and house-
keeping. In the third place, it will form part of the educational system in the
fural schools of the county, and prizes will be given, not to scholaras ondy, but brize
to the sechools they hel
 Ieader in the rapidy-developing work o
teaching agriculture- and horticulture in teaching agric
the schools.
This series This series of competitions has been made possible primarily by the generos-
ity
ity an public spirit of one man, Mı. R. B. Whyte. Mr. Whyte is known to
horticulturists not only in Conde. Corticulturists not only in Canada, bu
throughout America, as one who ha throughout America, as one who har
siven a lift time to the science and art of gardening, and who, in his own spo
cialties, is among the most eminent cialties, is $\begin{aligned} & \text { is } \\ & \text { authong othe most eminent } \\ & \text { nuthes. } \\ & \text { Not only } \\ & \text { does he manage }\end{aligned}$ a garden which is one of the show places eesstul and useetul experiments in the


Mr. R. B. Whyte, Ottawa.
 and girls.
cially raspberries and gooseberries. He is the founder and active head of the
Children's Flower Guild of Ottawa, an educational movement of the very highest value. All the money needed for the
boys' and girls' competitions has been boys' and girls' competitions has been and wizes alone will amount to over $\$ 200$ a
prizer
year year. Printing and other expenses also
represent a conisiderable sum. Having retired from business alter a successful career as a wholesale merchant, is
Whyte is proceeding to enjoy himself by giving his money, his experience and his
energy, which is as great as ever, to helping the coming generation to an
understanding and love of the rural life, perity.
Working by himself, however, Mr. Whyte could not have succeeded
ing what has thus far been accomplished
He has the advantage of residing in thg Federal Department of Agriculture has
collected in its offices and on the entral eminent specialists on farm subjects to
be found in the world. Each of these
men has become a specialist by being
to help in any reasonable way every needs to be explained-assuming it to be
 n the development of Canadian agric
ture. The Provincial Government also
through its Departments of Educa and Agriculture, is glad to assist in suc ork. In the potato-growing compert tions, Mr. Whyte has had the ablest pos
sible assistance. The Secretary of the movement is Mr. L. H. Newana, one of partment of Agriculture and Secretary growers' Association. Mr. Newman is not only a specialist in the biology o
seeds, but also an administrator of rar seeds, but also an administrator of rare
capacity. Realizing from the first the possibilitities of the compotitions, he has
given time and effort unstintedly to given time and effort unstintedly, to the compilation. Professor W. T. Macoun,
Dominion Horticulturist, who has given Dominion Horticulturiat, who has given
years of study in field and library to the growing of potatoes, is another member
of the committee. the competitions he prepared a bulletin
into which was condensed all the into which was condensed all the prac-
tical knovledge about growing potatoes tical knowledge about growing potatoes
in the ottawa district which has been
accumulated.
The results attained in accumulated. The results attained in
the competitions go to show that if the 'Parmers of Ontario generally were to pay
as close attention to Professor Macoun's as close attention to Professor Macoun's.
advice as do the competitors or Mr.
Whyte's prizes, the potato crop of the Province would be at least doubled. An
other member of the committee is Mr oher member of the committee is Mr
W. D. Jackson, representative in the County of Carleton of the Ontario De-
partment of Agriculture. Mr. Jackson partment of Agriculture. Mr. Jackson
Is a young man, and live. It is his
business to come in contact with the farmers and to extend to them the bene
fits of the knowledge and experience in ats of the knowledge and experience in
agriculture of the Province as a whole. The potato - growing competition he re
gards as an opportunity for better and

 It is a noteworthy fact that some of
the boys who entered the competition or the first year are in it still, while
others are now barred by age, eighteen
years being the limit. years being the limit. Mr. T. G. . Ray-
nor, of the Dominion
Agritertment of Agriculture, who has judged all the boys
exhibits at the county fairs-the showIng of one bushel of the competitor's own
crop boing one feature of the competi-tion-says that there is a distinct im-
provement in provement in the results achieved by
these young farmers in growing potatoes.
Not only is the product large in propor. Not only is the product large in propor-
tion to the average of the Province, and tion to the average of the Province, and
not only are practically all the potatoos
free from disease, but the competitors are showing a wiser understanding of the
demands of the market and so the demands of the market, and so the pota-
toes tend to grow more uniform in size shape, color, and quality.
The only suggestion of dissatisfaction
with this whole competition comes from those who are most directly responsium
for it, Mr. Whyte and his colleagues. They, are disturbed in mind beccuase so
few boys enter. Last year only sixteen boys from Carleton, and only fifteen from
Russell, carried the contest tron Russell, carried the contest through to a
finish, while this year the numbers were
fitteen and thirteen, respectively. Considering that these countives togeth-
have a population of about seventy thousand, with a larger proportion of farmers
than in the average Ontario county, and
considering the advantages offered to the boys in this competition, it certainly
does seem strange that less than thirty of age are found willing to comply with the terms laid down. The only explana-
tion attempted so far is that the farmcrs of the counties are unwilling to allow Modern fighting, it appears then, must crs of the counties are unwilling to allow Modern fighting, it appears then, must
Cheir sons to take one tenth acce of be waged largely against machines, ma-
cround and the time needed for itsproper chines dealing their missiles often the

## Modern Warfare

## Everyone is reading war newa, but in

 is safe to say that a considerable but pro-portion of those who read, through of understanding modern syatems Aghting, Tail to graap a very clear monta
perception of the battiefield of to-dey Old conceptions gatried through atudy of
the history of the past, die hard the history of the past, die hard, and,
before the mind's eye, nolid formation "hollow squarse," and brilliaint charge
loom large as eharacteristica of overy loom large as characteristice of overy engagement. As a matter of fact, theose
are comparatively meldiom resorted to it
modern wartare, and the modern warlare, and the resorted to in
looker of $a$ batitiatedeld onlooker of a battiefelide to-day would likely be much aurprised to see a com-
paratively deserted area, to all appearparatively deserted area, to all appear-
ance, from which even the amole hao
been largely eliminated been largely eliminated by the ues of
smokeless powder. In smokeless powder. In case of emorgency
there may be still the deaperate onruah, When men run forward in long, thin Hines, making use of every momont be
tween fires to run, then lying don then shoon fires the run, then lying down to generally the soldiers fight from burrow varying from the shallow rifle-pit hastily thrown out in half an hour, and in which
a man can only lie down, to the a man can only lie down, to the
deeper one in which he can atand and which has taken three or four
hours or more to construct, "'the hours or more to construct,-" "tho
trenches," sometimes protected by end begs, which afford a protected by andor men for such time an they hold, or wioh
to hold, a locality. Above the trenches during action sounds the whistle of rifle balls from
mile or more away, the heavier whirring of cannon balls from a distance of afteen
to eighteen miles, and the ahrie to eighteen miles, and the shriek of
shrapnel, this Iast one of the agents of
destruction most dreaded. Shrapnel, by the way, was invented by a Britishel, brmy
officer of that officer of that name, and consists of
shells filled with bullets and supple shetls
with a small charge inside which will cause them to burst at any time, send-
ing a shower of leaden rain on all sides.
 Lirls competition will be a far first an entrus official duty incline them

THE FARMER'S ADVOCATE
FOUNDED 1866

It was Napoleon who said, was it no
that God is on the side of the heavies battallions." To-day, were he alive, h "God is on the side of the irony, tha gessing the most 'advanced' weapons, the
most powerful and insidious contrivance most powerful and insidious contrivance,
for the wholesale murder of men." Among these, in field men." Among these, in field warfare, the
machinegun holds a place, high from military point of view. In "The Human
Slaughterhouse," by Lamszus, one of the Slaughterhouse," by Lamszus, one of the
most striking passages deals with the most striking passages deals with the
Working of one of these instruments.
"Two hundred and forty bullets and more to the minute mechanism one of these machine-guns is
You set it buzzing and is boullets thicker buzzing and it spurts out the automaton licks its lips hungrily and sweeps from right to left. It is point--
ed on the middle of the body, and sprays the whole firing-line with one sweep. It
is as though Death had scrapped his peythe for old iron; as if nowapped his
had graduated an expert mechens ,") had graduated an expert mechanic."-
Such the machine-gun, which turns on a
swivel to send its deadly hail over the
largeat an largest area possible, some kinds Which are small enough to be easily car
ried, in parts, usually by automobile o motor-cycle, and are simple enough or construction to be hastily set in posi-
tion when necessary. "sutomatic", gun iss so arranged that the loading, firing, extracting and ejecting,
are all performed automatically by the are all p
Of a different quality in deadiness those of the heavy artillery, which throw
huge missiles to great distances, and are especially effective in battering down walls. Among these, the Krupp 16 -inch eited much interest. The gun part of this huge cannon, as described by an observer in a recent issue of Collier's,
wighs 40 tons, and the carriage is fitte weighs 40 tons, and the carriage is fitted
with caterpillar wheels to facilitate transportation over soft ground. The projectiles are of two weights, 2,000
pounds and 2,600 pounds, and the pounds and 2,600 pounds, and the range be accurately struck. When it is known that each shell costs $\$ 970$, and that, for day were dropped into Namur during per day were dropped into Namur during the
siege, some comprehension of the cost of modern
rived at.
Wire entanglements which, at times mines hidden underground and explode at the opportune moment; aeroplanes to
drop bombs from above; drop bombs from above; wolf-holes for telescope and telephone; telescopicic at
tel tachiments - $o r$ guns; extension ladders for taking observations, -these are but a few
of the mechanical servants of modern field warfare, the machine-and-man war mar And the sea only serves to increase the
long list,-Dreadnought and armored long list,-Dreadnought and armored
cruiser and destroyer, submarine and
torpedo and torpedo and floating mine, all enlisted for
Perhaps to-day the submarine torpedo boat is the factor most to be reckoned
with in naval warfare, indeed so much so that to the minds of more than one naval expert it has suggested that hence orth even the day of the great Iread-
nought may be over. The history of the torpedo has been a comparatively long one. Nearly one hundred years ago Robert Fulton one
onstrated that ships might be destroyed onstrated that ships might be destroyed
by exploding a large charge of gunpowder against the hull charge of gun-
the difflculty of water, but the difficulty of getting the charge into
proper position proved a problem that proper position proved a problem that
took years to solve. After some years
the ., einer tor the "spar torpedo", explosive at the end of a longy pole pro-
jecting from the end of a small boat. and set off by an electric battery in the
boat. The adventure was, of course one of peculiar danger; all vessel was likely
the small attacking entail the upor less, during the American Ciy
spar torpedo was frequently resorted to to the equipment of ships, rendered it practically useless, but inventive minds
kept busy, and finally a torpedo kept busy, and finally a torpedo was
evolved that would wend its own way to evolved that would wend its own way to
any desired goal. From the "Howell" type, discharged from a tube, and driven


## Be Not Anxious.

## row : for the morrow will be anxious for

 evell. Sufficient unto the day is the" $O$, child ! there is summer forever, Here under the wintry sky,
Where the Lord is the And His sheep in His pastures the glory, And His sheep in His pastures lie.
Where the snow and the wild sleet are driven,
Far over the
Far over the lonely mere,
Where is summer beyond all Where Jesus the Lord all the $\qquad$
"Wolf Holes.

## With sharp stakes in them to impede attacks against fortresses, -- particu-

 lacks against fortresses,--particu-lafective against cavalry.

Making way with little but its periscop visible, and that a mere pinhead on the bue water, the latter is at all times
practically invisible, and possesses the power of being, at at will, entirely
Warned Warned by the periscope, it can at any
time dive, and travel with considerable Reed entirely submerged.
 chanical, the former controlled the me- the
shore and discharged then shore and discharged at will by an small electric battery or suspended weight inside, which causes it to go oft When anything bumps against it.
Mines were used by the Americans in 1777, but the first application of elec-
tricity in discharging them was made by Sir Charles Pasley in 1839, in destroying wrenke in- the River Thames. The
first military use of electrically fied mines was made during the American
Civil War of 1862, when several vessels
"Made in Germany !" How that word
is hated in our is hated in our lany to-day How that word
if we claim to be servants of cinristhave no right to hate anybody. Our orders are to love even our enemiesherefore I am glad to remind you that guage were made in Germany in our lanblack clouds of war are swept aside-Gted see that thay be soon-and we can see the blue sky of love again, how
gladly we shall clasp hands twith our fellow-Christians who are nuw separated from us. Even now the gulf separated
ly be bridged over ly be bridged over, for "when an enemy
is wounded he is no but a friend," is no longer an enemy, and protected from danger at all costs. way, did not intend to start off in this German" captured my pen. "from the OuriLord's command comes home to us is so and fills us with amazement. It the morrow when all is going well; but We know instinctively that the commanad
"Be not therefore anviou row," is intended anxious for the morrow," is intended for dark days. How
is it possible to have ""sum is it possible to have "summer qorever",
under the wintry sky f How is it pos-
sible to have "summer beyond all the
 protection of channels and harbors, as
well as for the destruction, when possi ble, of enemies' vessels.
A few months ago it was the opinion of many that war among the most ad-
vanced nations could never occur The inventions of to-day, it was pointed. out, must preclude all thought of such a culmination to any dispute, and so
arbitration must reign. Neverthelest has come the autumn ref of 1914, Nevertheless has ever known.

## Hope's Quiet Hour.

hee, Wherefore sighest thou? shalt answer, for the tilings; because and all hands shall com heart shall melt, spirit shall faint, and all knees shall bers Weak as water: behold. it cometh," Contrast with that despairing attitude one waiting for tidings, the brave
words of the Psalmist, who says the upright there ariseth light in the darkness. .... he shall not be afraid of evil tidings: his heart is fixed, trust-
ing in the LORD. His hest lished, he shall not be afraid.", ${ }^{\text {He }}$ If we really obeyed our Lord's com-
mand, how very few nervous breakdown there would be. We have ofteakdowns heard many troubles in his hife and a greai them never happened." We can't afford o throw stones at him for his folly in weighing down his heart with imaginary
burdens, for we live in glass houses our. selves.
Nerve specialists tell us that worry not only useless and foolish, but mosi
injurious to mind cure ourselves of worry by making w Our minds to give it up? I don't know One thing 1 do know, however, that real anxiety. If you study the pe drive ou which our text ị taken you will see that nur Lord did not put in the word "there fore" without good reason. The whol cemmand-which is really an invitation-
rests on the truth to which the word "therefore". refers. Your Father know eth what you need, He says, therefore if dren to be anxious. We are to chil children-""little" children-or we canno enter into the
Maitt. xviii.: 3).
kingdom of heaven ( S
Litule child spoil to-day's happiness by eren do no to-morrow's sorrows. They ${ }^{\text {ent }}$ eat the lood provided for them, confidently ex. future. On the ler to provide for the life the Master last night of His earthly
linly called His dis
ciples Hist ciples His "Priends," but He also ad
dressed them dren."
How happy we should be if we accepted Father's house. It is not easy to watch cause we know that our Father to is not kings and Lord of hosts. It is our best way of holding upit the strong shield of faith, and it is well for us if days of peace; so that we have not to go out against this giant Anxiety with unproved weapons. David dared not
face Goliath except with the ever-ready face Goliath except with the ever-ready
weapon which he had proved by long practice. He had confidence in his power to hit any mark with. a stone from hls
sling. but he refused Saul's offer of weapons because his hand was untrained in the use of sword or spear.
Before we open the daily paper, seeking eagerly for news, yet dreading possi-
ble evil tidings, let us always kneel down
and place and place ourselves and the cause so dear to us in God's hands. When trouble
comes-fresh trouble, I mean-God can $\begin{array}{cc}\text { comes- Presh trouble, I } & \text { mean-God can } \\ \text { make }\end{array}$ make us strong enough to endure it
without selfish and cowardly whining. in the meantime we can trust the future
in our Father's hands, knowing that $H \mathrm{He}$ in our Father's hands, knowing that He the make all things work together for
thood of those who love Him. We the good of those who love Him. We
are His little children, and He is able to control and overrule the madness of
warring nations. No child of God is warring nations. No child of God is
ever refused an audience. He may bo watching over world-problems, but He 10 never too busy to give undivided atten n to one of His little childrem.
$M_{y}$ Father's house has many rooms,
And some are reached through gathered glooms
By silent stair
By stlent stair:
But He keeps house, and makes in Which ever way the children children come."
Newell Dwight Hillts divides mankind to two classes-the people who live hadow, and those who live in sunshine
Ie says that the melancholy peonle al. Ways send their shadow on before then that they are so busy looking down for
painful things on which to step that

DECEMBER 17, 1914


Try this Thirsty Flour
A very thirsty flour. Absorbs a lot of water. Because it contains so much gluten. Manitoba wheat is wonderfully rich in
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So you get more loaves than usual without using more fiour. You use less. Your flour lasts longer, doesn't it ? Less trips to your dealer's. That's how FIVE ROSES saves money. Actually saves YOU money. Use this economical flour.


| only twenty feet across to the otherdewalk, where sunshine always lies."Those words are true enough of ord1-nary times, but we are not living in anordinary time, but in the shadow of thegreatest calamity the present generationhas ever experienced. Light and care.less optimism is utterly out of place | YOU Have"Many Uses for This Machine! |  |
| :---: | :---: | :---: |
|  |  |  |
|  | We are frank in telling you that a SPRAMOTORSightly used will earn its cost the first season and | "Peace, perfect peace, with loved onesfar away?" |
|  |  |  |
|  |  | Let us answer: "In JESUS' keeping we are safe and |
|  |  | they.' |
|  |  |  |
|  |  |  |
| ditay | Coiramootor |  |
|  |  | The Windrow. |
|  |  | The great reduction of crime in Russia |
|  |  |  |
| all her thought ont |  |  |
|  |  | cincts of the city of Moscow alone dur- ing the first half-year of 1914, there was an average of 896 criminal cases a |
|  |  |  |
|  | Royal Oak Clydesdales$\qquad$ | The following Prayer for Horses on the |
|  |  |  |
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2184
ELEGTRIC LANTERNS No

THE FARMER'S ADVOCATE



 nor a iterary club, but there is sure to
bo a Women's Inatitute

 $\underset{\substack{\text { woman puitrage(1) } \\ \text { But ther } \\ \text { ther } \\ \text { ane }}}{ }$

|  |  |
| :---: | :---: |
|  |  | that the vast meijority of women whid

thould dike to wote
 shoulder aside men in any way, but out
of at ainearo wish to tot womants voice
 dependent upon them, the children.
 woman striving to assist heraelt, not tin
 whin to limb, and who cannot climb so
her teeot.ong as there are shackes about


FOUNDED 186e


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All the Lister Lines are celebrated for their high quality, and the Lhe Liser Grinder combines OUALITY nivert
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Grame of the Weat. (f.er bread).
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When writing advertisers, kindly mention "The Farmer's Advocate."

| teel as if I must write new year |  |  | To "trangplant" a gerantum |
| :---: | :---: | :---: | :---: |
| visit before Christmas in this may, | instead or sugar ior hose who care for | Christmas season and alink ing one and who have | (d) you mean to move it to a larger |
| I cannot go and call on you any other | crisp, you can it they are kept | shown me any kindness, your sh, in | tly on some hard surface to to looeen |
| doing or wonder what you all intend | tight cans, so 1 have found for |  | the ball of soil, then place your hand |
| or are going for | Do not let it stand open at ali, |  | over the surface and lifvert Soil, plant |
| -not in giving presents |  | that it would be nice to give "Lankshire | disturbing the roots, and may be reatly |
| those who h | ing is needed in cake | Lass" a letter-party for Christmas Day? |  |
| ures-they do | spoon soda to one quart | 1. | ath rich tresh earth. Water |
| out those whe |  | will foll | Shirted in this way the leaveo |
| pe | pinch of salt to all bakings it makes it | her, in care of me, will once. Be sure to leave | should not |
| They may norget th |  | tor | r |
| mas, and a may not see another Christ |  |  |  |
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| k on the dear old faces. ${ }^{\text {a }}$ Let the | when it can be had. | ing |  |
| ey are wanted and wel- | I used to love baking and putting up | ar Junia, -1 have been a | Dear Junia,-Will you kindly mention |
| mere | ${ }_{\text {lasty }}^{\text {tasty }}$ | ved much | a tea stain out ot |
| on. | day |  | ress goods? |
| Sommeone in the Nook asked | ing for others. | Can you tell me how to tra | have taken "'The Farmer's Advo- |
|  |  | lall? Also |  |
| but I amm hoter in Guelph a while ago, | a peep into the stores at , but I have | firm to which untanned muskrat sking |  |
| \% coure whether they came |  |  | reterthero co. |
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## We'll Build Your Barn


#### Abstract

Don't worry your head over plans. We have over two hundred plans of barns ac tually built for Canadian farmers which you can pick and choose from. We'll make any up entirely new put your needs, or we ll ge to remodel or make any ch. If you want experts who can do any changes, we hav tell you what the change will cost and do the work if you want them to

In aill our plans we pay particular attenfion to light and ventilation and to the most modern and convenient layout of every foo of space. Our Steel Truss Barn which we have been erecting for farmers for the past two years is giving the best satisfaction Owners tell us that if they had other barns o build they would be Steel Truss.

These men told us the size barn they wanted and gave us an idea of the layout, Our men then gave them working plans for the stable and foundation. When the foundation was up we had our builders on the job to put up the balance of the building in eight to ten days' time


There was no worry or fuss to get men to do the job-no cutting timber in the bushno hard work for the womenfolk feeding large crew of men. We furnished all the material for the barns we erected and th Steel Trusses, the Acorn metal covering the hardware, lumber, etc

We made the barns fire and lightning proof, and can supply our Acorn Lightning Proof Ridge, approved by Prof. Day, of the . A. C
For those who want a lighter and cheape wood construction, we are prepared to erect the latest type of Plank Frame Barns
We have letters from those for whom we have erected Steel Truss Barns, telling us of their satisfaction. We want to put these let ers and our entire set of plans before you, so that you will know just how we can serve you.
Send your name to-day for plans. They hose who are entire plan service is free to those who are going to build

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VILLA VIEW AND FAIRMONT HOLSTEINS
 News of the Week

 ed in sink ing the German vessels, Scharnhorst, , Gneisenau, Leipzig, and Nurnberg,
near the straits of Magellan. In the
second, North Servia has really succeed d in acomplishing a gras reatly succeen the Austrians, capturing great nu
of men, horses, and field-pieces.


MMMOTH Bronze Turkeys bred from prize
Ritchte. Fining stock. Good healthy birds. W. K.
$\mathrm{M}^{\text {AMMOTH Bronze turkeys, bred from prize }}$


Denfield, o

Pure ter, Paris, Ont.

Gould's and Sy
Satidied anston
Spencerville,

Stone and Stump Pullers SNOW PLOWS
or iTownship roads for lumber ca BOB SLEIGHS
decembir 17, 1914


all, in fact, among the letters of
Jack was even more astonished.
.Call
at the office,"
the leter The first time youce, are in Now Yew York,-
the sooner the better. In have some information regarding the cre properties that may interest you."
to the young tellow had not heard
trom his uncle in many moons the surn Irom his uncle in many moons, the sur
prise was nll the greater. Nor, it the
cruth be known, had he laid eyes on truth be known, had he laid eyes on
that gentleman since he leett the shelter
of his home, excent at Corinnes wedt of his home, except at Corinne's wed-
ding, and then only acrost the churh,
and again in the street, when his uncle stopped and shook his hand in a rather
perfunctory way, complimenting him
 herspapers, and ending by hoping the
his new life would "drop some shekel
 tunity of expressing her mental attitude
toward the exile, never having seen him
 social and business successes. "I hear
Jack was at Mrs. Portman's last
night," she said to her husband the
nige night," she said to her husband the
morning atter one of the ex-Clearing
House Magnate's great receptions.
"They Maty They say ha goes every here, and that
Hr. Grayson has adopted him and is
HI




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OTTAWA, ONT


## Winter Session

## Chiclets

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in his buttonhtole.





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armation by the cuncill


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now anto
not




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It has
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Ontario

## Picharads aUcx NAPTHA

 WOMANS SOAP,MADE IN CANADA


DECEM "My "Your The childish | "As if |
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| Little | "Can't aunny these "But tel sort of

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DECEMBER 17, 1914
"My what ${ }^{\prime}$ " asked Little Billee. "Your address," repeated Santa Claus, The answer was a ringing peal of childish laughter.
"As if you didn't know that:" cried
Little Billee, giggling. Little Billee, giggling.
"Ha, ha!") laughed Santa Claus. "Ha, ha !" laughed
"Caan't fool you, can I , Santa Claus.
It would be funny if, after keeping an eye on you
all these years since you was a baboy, I didn't know where you lived, eh ?" "Awful funny," agreed Little Billee.
"But tell me, Mr. Santa Claus, what "But tell me, Mr. Santa Claus, what
sort of a boy do you think I have
been ?" he added with a shade of anxiety in his voice. "Pretty good-pretty good," Santa
Claus answered, turning in his steps and Claus answered, turning in his steps and
walking back again along the path he
had just traveled-which Little Billee waiking back avaed-which Little Billee
had just travelo
thought was rather a strange thing to do. "You've got more white marks than black ones-a good many more-a
hundred and fifty times as many, kiddie. Fact is. you're all right-'way up
among the good boys; though once or twice last summer, you know-" Bille "Yes.
meekly,
"but
know," said
Little meeky,
naughty."
""That's just what I said to the bookKeeper," s said Santa Claus, "and so we
sate gave you a gray mark-half white and
half black-that doesn't count either way, for or against you."
"'Thank you, sir," said Little Billee, much comforted.
"Don't mention it; you are very wel"Don't mention it; you are very wel-
come, kiddie.". said Santa Claus, giving come, kiddie." said santa Claus,
the youngster's hand a gentle squeeze. "Why do you call me 'kiddie' when
you know my name is Little Billee ?"
asked the boy. asked the boy.
"Oh, that's what I call all good boys," explained Santa Claus. "You
see. we divide them up into two kinds
-the -the good boys and the naughty boys-
and the good boys we call kiddies, and the naughty boys we call caddies, and there you are."
Just then Little Billee noticed for the first time the square
Claus was wearing. "What are you wearing those boards
for, Mr. Santa Claus?" he asked. If the lad had looked closely enough
he would have seen a very unhappy look he would have seen a very unhappy lo
come into the old man's face, but th
was nothing of it in his answer. was nothing of it in his answer.
"Oh. those are my new-fangled ba and-chest protectors, my lad," he re-
plied. "Sometimes we have bitter winds plied. "Sometimes we have bitter winds
blowing at Christmas. and I have to be
ready for them. It wouldn't do for ready for them. It wouldn't do for
ranta Claus to. come down with the
Sant
sneezes at Christmastime, you know-no, sirree ! This board in front keeps the
wind off my chest, and the one behind keeps me from getting rheumatism in my
back. They are a great, protection back. They are a great, protection
against the weather."
"I'n1, have to tell my papa about
them', said Little Billee, much impressed by the simplicity of this ar-
rangement. "We have a glass board on
and rangement. "We have a glass board on
the front of our ortymobile to keep the
wind off Henry-he's our shuffler-but the front of our ortymobile to keep the
wind of Henry-he's our shuffle-but
papa wears a fur coat, and sometimes phe says the wind goes right through
he
that. He'll be glad to know about
these boards." Chat. He'll be glad to know about
these boards."
"I shouldn't wonder," smiled Santa
"They aren't very becoming, but "I shouldn't wonder," smiled Santa
"lans. "They nren't very becoming, but
thes. are mighty useful. You might
;ave up your pennies and give your
papa a pair like 'em for his next

THE FARMER'S ADVOCATE
2189
The Farmer Finds
Santa Claus shivered slightly, and Cittle Billee was surprised to see a tear "Why, have you got a little boy?" he asked. ""Yes, Little Billee," said the saint.

- A poor white-faced little chap, about a year older than you, who-well, never
mind, kiddie-he's a kiddie, too-let's mind. kiddie-he's a kiddie, too-let's
talk about something else, or Lil have icicles in my eyes." "You didn't tell me what those letters ". 'Merry Christmas to Everybody !'"
ne said Santa Claus. "I have the words printed there so that everybody can see
them: and if I miss wishing anybody them: and if I miss wishing anybody a
merry Christmas he'll know I meant it just the same" "You're awful kind, aren't you?" said "You're awful kind, aren't you?" said affectionately. "It must make you very
happy to be able to be so kind to happy to be
Santa Claus made no reply to this remark, beyond giving a very deep sigh,
which Little Billee chose to believe was evidence of a great inward content. They walked on now in silence, for most too tired to talk, and Santa Claus seemed to be thinking of something else.
Finally, however, the little fellow spoke. Finally, however, the little fellow spoke.
'I guess I'd like to go home now, Mr. "I guess I'd like to go home now, Mr.
Santa Claus," he said. "I'm tired, and
I'm $\mathrm{I}^{\prime}$ mafraid my mama will be wondering "That's so, my little man," said Santa Claus, stopping short in his walk up and down the block. "Your mother
will be worried, for a fact;: and your father, too-I know how I'd feel if my little boy got losted and hadn't come
home at dinner-time. I don't believe nome at dinner-time. hou know where ! 'ress up, Billee, you
honest know where you live, do you ?"
don't "Why, yes, I do,", said Little Billee. "'It's in the big grey stone house with
the iron fence in front of it, near the park."' "Oh, that's easy enough !" laughed
Santa Claus nervously. Anybody could
say he lived in a gray stone house with say he lived in a gray stone house with
a fence around it, near the park; but you don't know what street it's on, nor
the number, either. I'll bet fourteen wooden giraffes against a monkey on a "No, I don't." said Little Billee Prank. ly; 'but I know the number of our
ortymobile. It's-'N. Y.'" "Fine!" laughed Santa Claus. "If
yout really were lost, it would be a great help to know that; but not being
lost, as you ain't, why, of course, we can get along without it. It's queer you
don't know your last name, though." "I do, too,
blurted
Little $\underset{\text { know my }}{\text { Billee. }} \begin{aligned} & \text { last } \\ & \text { "It's } \\ & \text { "In }\end{aligned}$ Shat's the last one they gave me, anySanta Claus reflected for a moment.
eying the child anxiously. eying the child anxiously.
"I don't believe you even know your "I don't believe you even
papa's name," he said.
"Yes, I do," said Litule Billee in"Yes, I do," said Little Billee in-
dignantly. "His name is Mr. Harri-
son." dignantly.
son."
".well, you are a smart little chap," s. Well, you are a smart little chap,"
cried Santa Claus gleefully. " ou got cried Santa Claus gleefully. didn't you?
it right the very first time,
I really didn't think you knew. But it reall d didn't think you knew. But
not believe you know where your papa
not keeps his bake-shop, where he makes at
that the makers of PURITY FLOUR are always in the market for the highest grade of Manitoba Hard Wheat. We operate nearly a hundred Elevators in the choicest Western wheat country to secure the world's best wheat for making the world's best flour.


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sencine.
Look lor it.
Clydesdales and Percherons
I have not exhibited at any shows during 1914. I am still in the horse
business, and at present have the best lot of Stallions and Mares I ever
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Our 1914 importation are home. Stallions and fillies especially selected for
character, quality and breeding. If you want a topper, come and see them. Smith \& Richardson, Columbus P.O.
few choicely-bred young stallions always on hand and for sale. Prices and terms right. Visitors welcome.
BARBER BROS.
GATINEAU PT. QUE.
$\square$ Imp.-Clydesdales, Stallions and Fillies-Imp. We tave had lately landed, an execrpturnal'y choice mportation of Stallions and Fillies.
They have the big size. the clean flat quality bone and the most fashionable breeding,


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The Most Popular Feẽd in Canada To-day is

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Cotton Seed Meal

Here is the reason
 that of pood wheat moran. (Stee Onie
Agr. College. Report, 1911, page 144.)
2. It mantaize more protein thar any
3. It is naturally a great milk ptoducer. 4. It is guaranteed with the Dominion
Goverument to contain not less than
liper ent.of protin. It frequently
contains more than. this

5. Good Luck Brand Cotton Seed WE pride ourselves, on our Cotton Seed Meal, and so will you when you once commence feeding it.
Do not allow your dealers to substiDo not allow your dealers to substi-
tute. Insist on the bag with the
"Gon "Good Luck" tag. There are plenty of cheaper Cotton Seed Meals, but their quality is inferior, and often-
times they are very dangerous to feed.
"If your dealer does not handle Meal, write us direct. We can supply carlots or less, and the smallest
order will be carefully looked order will be carefully looked after
and will receive our immediate atten-
tion. tion.
We carry a stock of this high-grade
Cotton Seed Meal at Cotton Seed Meal at the following
points, and can quote prices appearing
below:
$\underset{\$ 30.00}{\text { LONDON }} \underset{\$ 31.00}{\text { TORONTO MONTREAL }}$ BELLEVILLE PRESCOTT These are ton-lot prizses. Same price on all
ordere accept carlot orders. Can you handle a
ondr

TERMS: Cash with order. (If cheque NOTLES: Sunt defnitety from which point
you desire us
communications to make shipment. Address all
Crampsey \& Kelly TORONTO ONTARIO
 It tops bleeding instantly and will prevent
Blood Poisoning. For Sale by all Dealers. DOUGLAS \& CO.,NAPANEE, ONT.


Smithers's cafe, to which Little Billee's dinner Henry came with the And after and, bidding everybody good night, Santa Claus and Little Billee's papa went out of the house togethe Christmas morning dawned, and Little
Billee awoke from wonderful dreams of Billee awoke gifts, and of extraordinary adventures with his new-found friend, to find the reality quite as splendid as the
dream things. Later, what was his dedream things. Later, what was his de-
light when a small boy, not much older than himself-a pale, thin, but playful
little fellow-arrived at the house to little fellow-arrived at the house t
spend the day with him, bringing wit spend the day with him, bringing with
him a letter from Santa Claus himself! This was what the letter said
Cear Little Billee
"Dear Little Billee
"You must not tell anybody except your papa and your mama, but the lit-
tle boy who brings you this letter is my little boy, and I am going to let you have him for a playfellow for Christmas
Day. Treat him kindly for his papa's Say. Treat him kindly for his papa's worth loving tell him so. Do not forget me, Little Billee. I shall see you
often in the future, but I doubt if you often in the future, but 1 doubt if you
will see me. I am not going to return will see me. I am not going, but shall continue my work in the Land of Yule, in the Palace of Good-Will, whose beauti-
ful windows look out upon the homes of ful windows look out upon the homes of
all pood children "Good-by, Little Billee, and the happiest of happy Ciristmases to you and
all of yours. Affectionately, When Little Billee'e mama read this little tear ran down her cheek and fell pon Little Billee's hand. "Why, what are you crying for, "With happiness, my dear little son,",
his mother answered. "I was afraid yesterday that I might have lost my
ittle boy forever, hut now-", ittle boy forever, but now-""
"You have an extra one thrown in for Christmas. haven't you ?" said Little
Billee, taking his new playmate by the Billee, taking his new playmate by the
band. The visitor smiled back at him with a smile so sweet that anybody
night have guessed that he was the son i Santa Claus. As for the latter, Little Billee has not
seen 'him again; but down at his father's ank there is a new messenger, named John, who has a voice so like Santa
Ohus's voice that whenever Little Billee Claus's voice that whenever Little Billee
goes down there in the motor to ride home at night with his papa, he runs
nto the bank and has a long talk with im, just for the pheasure of pretending
hat it is Santa Claus he is talking to. Ideed. the voice is so like that once a
udden and strange idea flashed across ittle Rillee's mind.
"Have you ever been on Twenty-Third Street, John ?" he asked.
"Twenty-Third Street $?$ ?" replied the "Twenty-Third Street?" replied the
messenger, scratching his head as if very
much puzzled. "What's that ?" much puzzled. "What's that?"
"Why, it's a street." said Little Billee ather vaguely. "Well, to tell you the truth, Billee," Well, to tell you the truth, Billee,"
aid John, "I ve heard tell of Twenty-
Third Street, and they say it is a very Third Street, and they say it is a very,
beautiful and interesting spot. But, ou know. I don't get much chance to
cavel. I've been too busy all my life go abroad."
. 'broad!" roared Little billee. Erin"Abroad"" roared Little Billee. grin-
ing at John's utterly absurd mistake.
Why, $\quad$ Twenty-Third Street ${ }^{\text {aint }}$ Why, Twenty-Third Strect ain't
l,road! It's up-town-near-oh, nearReally?", returned. John, evidently
Red
sale of the herd of Collver V. Robbins,
on Wednesday, December 30 , . N1914. The
sire of these richly-bred young things is sire of these richly-bred young things is
King Korndyke Inka De Kol, a son of Pontiac Korndyke. He cost Mr. Robbins a great deal of money, but the high-
class standard of his herd on the lines of official backing in their breeding,
official R. O. M. and P and superior individual excellence records, it an imperative duty to purchase a sire with breeding of a producing standard high enough to ensure his being capable
of transmitting his ancestral qualities to of transmitting his ancestral qualities to
his offspring, and now, after all these years of intelligent effort to get together a herd of Holstefins second to none, cir-
cumstances over which he has no control cumstances over which he has no control
compel him to sell the result of his litetime's work. It is a sore ordeal. but the breeders generally will get the benefit.
The sale will be held at the farm The sale will be held at the farm. Con-
veyances will meet all morning trains veyances will meet all morning trains at
Fenwick, T., H. \& B.; Perry, M. C. R. and Marchitle, G. T. R., on the day of sale. Write for catalogue to Collver
Robbins, Wellandport, R. R. No. 3 .
R. W. Walker \& SONS' holsteins R. W. Walker \& Sons. Whose R. M. D. D
address is now Port Perry instead at Utica as formerly, and whose large her of 4 -per-cent. Holsteins (we say 4 -percent. Holsteins because almost every one
of them that has been in the R. O. M. and R.O. P. tests has showed a butterlat test of 4 per cent. and over), and
the great cow, Madam
B. 3rd's Alma 2nd, that won championship honors in the dairy test at the Toronto November
show last year has freshened again show last year has freshened again, and
her tests this year run from 4 -per-cent. to 5 -per-cent. butter-fat, and all her deughters in milk have a test of 4 per
cent. herd. We started ore winter quarters in grahd condition, and show their capabilities in their splendidly - balanced and developed udders. With their usual ap class sires on the herd, the Messrs. Walker have lately purchased a halfinterest in the great bull, King Segis
Pontiac Duplicate whose thirteen nearest. Pontiac Duplicate, whose thirteen nearest,
dams have records averaging 26.88 lbs., a son of King Segis Pontiac, with 30 A. R. O. daughters, he by King Segí
with 82 A. R. O. daughters, dam with 82 A. R. O. daughters, dam
King of the Pontiacs, with 89 A. R. daughters, he by Pontiac Korndyke, with 86 A. R. O. daughters. This is the
best breeding the breed produces. best breeding the breed produces. He
is thus threequarters brother in blood is the $\$ 50,000$ King Segis Pontiac Alcartra. Assistant in eervice. is Pontiac Hengerveld Pietertje, a grandson of Hen-
gerveld De Kol, with 116 A. R. gerveld De
daughters.
Kis dam is a daughter of
His daughters. His Ham is a daughter of O. P. record of 29,591 lbs. All the
younger things, including the several young bulls for sale, are who fol fitteen
Imperial Pauline De Kol, whol Imperial Pauline De Kol, whose fifteen
nearest dams' records averaged 26 lbs .

## Trade Topic.

## Montreal-TORONTO-DETROIT-

These solid de luxe trains, carrying

Make Your Stock Profitable
How? By using CALDwELL'S STOCK FEEDS. These guaranteed, highquality feeds have raised many a dairyman's margin of profit. We print and

## CALDWELL'S MOLASSES MEAL <br> ( $84 \%$ Purest Cane Molasses and $16 \%$ Edible Moss)

A complete balanced ration-unequalled as a builder of cattle, horses, sheep
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## CALDWELL'S Stiamo

contains Linseed, Wheat, Oat, Corn, Locust Bean, Pea and Molasses Meal in correct proportions to ensure highest results. Fully equal to whole millk for rearing calves. Enables you to sell your millk and yet raise just as good calves.
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DUNDAS,
ONTARIO


Angus Bulls and Dorset Rams For Sale-Young bulls of the best Aberdeen Angus type Dorset Horn Ram Lambs at a low figure for immediate Dorset Helivery. They are good. Write for prices.
deam FORSTER FARM, - - OAKVILIE, ONT.

## 

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100 Mitchell Bros., Props., Burlington P.O., Ont. Jos. McCrudden, Mgr.

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Some of themi fit to head the best herds in the . country.
Some are from heavy milking dams. Six are from imported G.T.R.

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SHORTHORNS and CLYDESDALES We have a nice bunch of b bull
 A. B. \& T. W. Douglas Long-Distance 'Phone Strathroy, Ontario
 B. B. Bül \& Son


| Don Jerseys |  |
| :---: | :---: |
| Woodbine Holsteins | The Maples Hosteien |
| "os |  |
|  | amen wememit |
|  |  |
| Holstein-Friesian |  |
|  | Lakeside Ayrshires |
| ceimememe |  |
| Maple Grove Holsteins |  |
| Dopour |  |
|  | Alancroft Dairs \% Stock Farm |
|  |  |
| Graat Yeariog Holtain Bull For Sale |  |
|  | , |
|  | Hish-Class Ayrsh |
|  | minh-Class |
|  |  |
|  |  |
| 号 $x^{4}$ |  |

Questions and Answers.





Veterinary.
Lump on Shoulder.
Ware has a lump on her shoulder.
When she is used for work it enlarges
and becomes sore. It has been blistered without results. Whas been blistered Ans.-This is a fibrous tumor, and local
applications will do little or no good. applications will do little or no good.
It must be carefully dissected out, the
wound stitched, and wound stitched, and tissected out, the
timessed three times daily until healed with an anti-
septic, as a five-per-cent. solution of car
bolic acid. bolic acid. It will be
veterinarian to operate.
Lumps on Fetlock.
A year and a half ago a soft lump ap-
peared on the front of the near fore fet peared on the front of the near fore fet-
fock of a colt now rising three years of
age. I lanced this and pus escaped age. I lanced this and pus escaped.
The lump then became hard, and is now
the size of a the size of a hen's egg. She is not
lame. What can I apply to remove
it permanently? it permanently? W. S. S.
Ans.-It is not probable that any ap-
plication will remove it. duced to a greater or less extent by ubbing well once daily with the follow-
ing liniment, viz: ing liniment, viz.: Four drams each of
iodine and iodide of potassium, mixed with four ounces each of alcohol and
glycerine. It is probable that it could glycerine. It is probable that it could
be removed by an operation by a veteri-
narian be removed by an operation by a veteri-
narian, but as it is so close to the joint
none but a veterinarian should operate. Inversion of Vagina. V . Heifer calves last January, and after
calving she inverted the neck of the
womb Calving she inverted the neck of the
womb. My veterinarian treated her and
applied a truss, and we placed a platapplied a truss, and we placed a plat-
form under her hind legs, and she got
all right. She will all right. She will be due to calle
again in February, and is again invert.
ing the again in February, and is again invert-
ing the neck of the womb. of C.J.
Ans.- It is not the neck of the womb. but the vagina that is inverted. Build
a false botom in her stall (the stall
must be a narrow one with the sides
 behind than in front. off) Wae foot higher
portion thoroughly with the inverted num to ten parts water, then replace it
and tie her in the stall. If she con-
tinues to press, injict. tinues to press, inject a little of the
solution of laudanum into the varina
occasionally. If this does not check ing the past year published a to treat dur deal
of information about sweet clover past summer we tried a small plot of it
at Weldwood, and the results were very gratifying. The cattle ate it readily,
and it seemed to be especially good feed. and that which was made into hay is
indeed very good hay strongest points in favor of sweet clover
is its value for plowing down. It may be sown with a nurse crop of barley
early in the spring, or as we did, sow
it alone twenty pounds per acre ster it alone twenty pounds per acre alter
seeding. It must be sown thick in
order. socang. It must be sown thick in
order that it does not grow a rank.
woody plant. It should suit your pur-
pose for plowing down very well pose for plowing down very well. You
should, however, plow it down before it seeds, or just about the time it shoots
to flower. The crimson clover is not
the same the same plant. It costs about 20 c . to
$2 \overline{\mathrm{~s} .}$. per $1 \mathrm{~b} . \mathrm{l}^{2}$.










Mare is troubled with warts, especially to the mamme. This has been posterior
thre y a coes, once by a knife, and twice looks as though it might reund it. It nammae is slightly swollen. Ans.-Apply butter of antimony to the
raw surface where the wart has beer taken off once daily, with a feathen.
Pick off the scab occasionally in to allow the dressing to reach the mains of the wart. If this does not
check the re-growth, she must be cast check the re-growth, she must be cast
and firmly secured, and all diseased tissue carefully dissected out. In In somed the re-grow hecannot be prevented. We do not think the swelling of the mamime
will be| serious unless it be involved with will belserious unless it be involved with
the growth.

```
Miscellaneous.
```

$\qquad$
is ave seen considerable in the papers ome re sweet clover, and should like referrersion about it. The articles that everyone knew it. Now, I confes my ignorance in regard to it. I don't know as I ever saw it. My reasons for asking about it are: From what I saw
about it, it grows a crop the first year My land that I seeded the past season was a failure owing to the prolonged
droucht drought, and I , will be short of hay and
pasture grass another year ing my rotation another year, besides hav-
ind vise sowing sweet clover for pasture or
hay? I also had intender piece of also had intended sowing
ing down for with peas and plow man down for manure. as I am short of ing. I was wondering if swee cor cover
would do instend would do instead. What time would it
require to be sown, and require to be sown, and quantity to the
acre, to be fit to be plowed in for fall wheat? Is it hard to kill? Would once plowing be sufficient to kill it ? What would it cost per acre to seed it? clover ? Woluver the be same as sweet
purpose, or what would you use for my my me? Ans. - We have from time to time dur-
ing the past year published a great deal inversion apply the truss aqain. The
truss will not cause trouble, but, or
course, must be removed when parturi-
cion commences. tion commences. It will be wise not to
breed her again, as the trouble will
probably recur.

Partial Paralysis
ed on skimmed milk, bran, oats and oat chop, and nice hay. When three months
old I had to tie it, and I let it out
three times weekly for exercise. Tt was fat and well until about 41 months old,
when it became lame or stiff. It is now
\% months old, and is very poor, and so
stiff that it has great difficulty in rising
$\qquad$

Questions and Answers Miscelıaneous.

Engineers License

1. Where can engineers' license papers ate steam boilers?
2. What are the fees for same?

Ans. -1 and 2. Write the secretary Department of Agriculture,
Retail Journal
Kindly inform me, through your valu-
able paper, the names, addresses able paper, the names, addresses and
subscription prices of the Canadian journals devoted to the retail mercantil and grocers' interests Ans.-Write the Canadian Grocer, Mac tean Pub. Co., Toronto.
Sweeny.
Please give treatment for three-year-
old colt that -old colt that was sweenied this fall, but
not lame. not lame.
Ans.-Do not work. Get a blister made of two drams each of biniodide of mercury and cantharides, mixed with two ounces of vaseline. Clip the hair off the parts, and rub well with the blister third day wash off and apply sweet the third day wash off and apply sweet oil. cannot bite the parts. Whe applyin the oil, let the parts. When applying scab comes off blister again if necessary.

Cows, Hens, etc.

1. What class of cows would you ad2. Would you suggest a cross between a Durham and a Guernsey, or Ayrshire? 3. What class of hens would you suggest for winter and summer laying? I and one Barred Rock cockerel, very well bred. The hens are one year old, and they are not laying. I feed two quarts half quarts corn at night. Lots of milk and water. I clean their coop out once
a week, and they do not lay, nor will hey move out from the building to a. growth around calve last March with Womb about three inches in diameter
and three-quarters of an inch in size. I
called a ctlled a veterinarian and he found that
this ring had to be cut off entirely, as
there there was no oother way to save the cow.
The cow did well all summer, and I still he cow did well all summer, and I still
ave her. She is five years old and a
ood cow. Would you advise me to breed her again?
Ins.-1. If you are going into t. the
high-class dairy business we would not Ans.-1. If you are going into the
high-class dairy business we would not
advise crossing. If you do not feel able dvise crossing. If you do not feel able
, handle pure breds, get grades of any
he of the good dairy breeds, as HolJerseys. If you can
ilking grade Shortproftable. It it is im-
state which is the sssible for us to state which is the
st hreed. It all depends on the strain you get, and upon. the care and manage-
Ment given.
2. We would not favor crossing these 3. For winter layers there is nothing
Hirr than a laying strain of Barred chs. White Wyandottes. Rhode Island
che Man and ts. or Buff Orpingtons. Be sure you
a laying strain of them. For sumby herself. We would suggest that ut six inches of rather short straw lld also incuce them them a masratch. such as
give the
oats. and besides this they should


## 45 Pure - bred Holsteins 45

## On Tuesday, December 22nd, 1914

 At Royalton Stock Farm Mr. E. C. Gilbert will sell by auction, 45 head of highi-class Holstein catle. Seven young bulls from nine to eleven months of age; the balance
females, heifers and mature cows manys of them over 4\% B.F., richly bred on producing lines and highi-class
individuals. viduals.

Terms-Cash or six months on bankable paper with $6 \%$.
For Calalogue, write E. C. Gilbert, R.R. No. 7, St. Thomas, Ontario. MOORE \& DEAN, SPRINGFIELD, ONTARIO, AUGTIONEERS. Sale at 1 P.M.

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Hamilton Farms, St. Catharines, Ontario
Cloverlea Dairy Foarms Herd headed by Pontite Norine Korndyke, a splendid
 GRIESBACH BROS,
GRIESBACH BROS, $\quad$ - Phone $\quad-\quad$ Collingwood, Ont
Evergreen Stock Farm -High-Class Registered Holsteins
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OURVILLE STOCK FARM

| Offers: Five bulls ready for sirvice, sired by Royalton Korndyke. Duke, whose dam gave |
| :--- |
| 31.76 lbs. butter in 7 days. All are from tested dams. |

LAIDLAW BROS. .: R.R. NO 1 .: AYLMER, ONT

## 60 <br> Consignment Sale of PURE-BRED Ayrshire Cattle <br> 60 HEAD

Fom the herds of the Southern Counties Ayrshire Breeders' Club, Wednesday, December 30th, 1914, at 1 p.m. Offering consists of show cows, record cows, dairy test winners, high-class
young bulls and heifers with breeding that spells production. Come and see these beautiful animals. Select one or more and keep your boys' interest in the farm. We are going to make this an annual event, and would not. Every animal pledged to absolute sale. Low rates on all railroads.

Terms-Cash or credit up to six months on bankable paper, $6 \%$ interest. Catalogues ready. Send for yours to-day.
HN McKEE, President
 MOORE \& DEAN, Auctioneers.

क.
he have little to spare from our own herd but can fill orders from other
herds of different ages up to car load lots A few choice March 31st allex. hume \& CO, R. R. No. 3 Campbellford, ont.

Woodburn Stock Farms


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 Three-Wheel Wagon and Stock Scale capacity 2,000 lbs. $\$ 35.00$ Covernment Cerifinatio, accomCalal cutippet aneme diay as money THE AYLMER PUMP \& SCALE CO., LIMITED Aylmer, Ont.

Farnham Farm Oxford Downs We are making a Special Offer for 30 days of 50 fine registered yearling ewes, bred to our
tmported ram too lamb in April Also 50 祭
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Tower Farm Oxfords-A choice lot of $\mid$ Sheep, Swine and Seed Corn-Youn lambs, sired by Hamptonian, No. 279, imported
privewinner at the Royal; also a few yearling rams
and efhraim barbour, Erin, Ont.

## 

 alloway lodge, stock farm Maple Grove Yorkshires Southdown Sheep Look up this year's record at the shows
Breeding stock of all ages for sale. ROBT. McEWEN,
OXFORD DOWN SHEEP Shorthorn Cattle, Yorkshire Hoge Present
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Yorkshires and Berkshires or

DUROC JERSEY SWINE, JERSEY CATTLE
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ELMHURST LARGE ENGLISH BERKSHIRES
 BERKSHIRES FOR SALE Registered boars and sows weaned, straight an
thrifty from orizewinning stok on either side at
Toronto, London and Guelph winter shows.
at

TAMWORTHS 10 each. Ira Nichols, Box 988, Woodstock, 0 nt: $\mid$ John W. Todd. R R Duyng elsewher prices Canada's Champion Herd of Registered Hampshire Swine This herd has won
HAStings bros.
Telenhone Crosshille ant



## BERKSHIRES

Pine Grove Yorkshires-


Questions and Answers. Miscellaneous.
Setting Aside Will-Landlord and Tenant-Live Stock Inspectors. cept terms of a will all that is necessary to break it, or what? certain amount per year as long as she Iives, out of her husband's estate, which
was willed to another person, break th will, or cause the property to be sold she considered she did not get her third,
or would the will stand as a decision to
this ? 3. A rents farm from B, and B allows
him Would a clause stating this barns. (a) ment if placed in the lease, give A a jus claim on property for repairs? (b)
Would it spoil validity of lease in any way? What are the license fees for a $(\mathrm{a})$
4. When County, (b) Provincial Auctioneer, or (c)
does the former vary? 5. What qualifications are necessary,
and how could a person become a Golv, ernment Inspector of Live Stock? About
what salary do what salary do they receive?
6. How would metal-sheeting siding 6. How would metal -sheeting siding
compare with lumber for a barn as to
cost and durability ? cost and durability ?
Ontario
Ans.-
ety of circumstances. the reason suggested alone set aside fo much strouger grounds would be re
quired. $\quad$ But the widow is to accept the provisions in her favor take, instead, her dower, that is to say
her estate for life in her estate for life in one-third of her
husband's lands, if any. 3. (a) Te think not. (b) No.
4. (a) These are fixed by by-law of th
Municipal Municipal Council of the particular
County stantutory provision for pot find any
tioneers, or the licensing of such. (c)
$\qquad$ (Live-stock Branch),
sired information.
6. Quite favorably,

Miscellaneous Enquiries

1. My neighbor, who is going to build
his line fence, said all tres which were
in the fence corners were his, as they
in the fence corners were his, as they
would be on his side when he built the
fence fence. Can I cut them before he builds
his fence? He cut all on his gide years ago. He cut all on his side a few 2. A sells his 200-acre farm to B for
$\$ 12,000$ B pays $\$ 2,000$ down, and
gives for the rean gives for the remainder a mortgase on house and lot in town clear of debt If the value of the farm fulls below the
mortgage value, can $A$ take $B$ s 3. If there are children in a school
section who do molata should report them to the inspector, and what is the penalty? over nyy neighbor's fence, who clainns the
apples. Can he cut off the limbs even with the fence?
2. I have lived in my uncle's house for
twelve years, paying the taxes, but no
rent. Can he claim the
$\qquad$
 neighbor's woods. Can I cut down the
tree for the honey in the fall without
askinor We to accept $D$ I as pansent. $A$ and B and, and offer

3. B accepts the mortgage as security
for the balance due him. The house and for the balance due him. The house and
ot do not enter into the transaction al all. and can not be appropriated for that 3. The trustees should report thi with it as occasion demands. will dea and cut the limbs off even with the line 5. This sojourn there does not ent oownership of the property
4. This is a matter which will dvpent of bees where they are a menace to heighbors or public, he is endangering
his own position. 9. The time starts when the man and leam leave home. Where people are in. the the nit 7 roads, they are usuall. Winion Thite the Secretary of the 11. Write himce Alliance, Toronto.

Soft Water.

1. Is rainwater out of a cement cis
tern as good for horses as tern as good for horses as hard water?
2. Will lime improve soft water heaves?

Where Calendars are Made. Would you kindly let me know where,
could get calendars made, and what the, would cost me by the hundred?

Ans.-The London Printing and Litho raphing Co., of London, Ont., have a epartment devoted to this work. Write
them, stating the class of calendar you. wish made, and procure prices from thein Mating Turkeys.
Last spring I had a young turkey hew
hat failed to mate with the male bird. and eggs were not fertile. Can you tell me, through your paper, if it might be
possible she would mate next spring? Hen is a fine, big bird, tand I would like
to keep her.
Ans.-We cannot say. A big, healths
bird, should be a breeder
Eczema.
Kindly inform me, through the col umns of your paper, if there is anything
that I could get to cure eczema io horses? They are dry in the hair, hide
is full of dust, have itchinese is full of dust, have itchiness all over
body, head, mane, and tail. Veterinary body, head, mane, and tail. Veterinary
calls it eczema. Ans.-Your veterinarian is doubtless hard to treat. Unless the animal's hair is very short, have him clipped. It will after clipping to keep in a warm Mace or blanketed. Give each horse a Soft-soang washing with strong, warm, ing brush. After this, dress thoroughly vary second day until cured with arm, five-per-cent. solution of Creolin
in water. Give each horse one ounce Fowler's. Give each horse one ounce a pint of cold water and then mixed up with chop or bran, or as a drench, twic
daily every second week for six weeks. Potato Digger. Three farmers, $\mathrm{A}, \mathrm{B}$ and C, buy potato
planter and digger in partnership, one
third share each, with the understanding third share each, with the understanding
and

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