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## Thritt is the

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We like to Christmas
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## EDITORIAL.

It has been truthfully said that people are restless because too many are resting.

The soft-coal famine is another reminder that Canada should harness her waterfalls and develop her mines.

We like to know what you actually think of our Cliristmas Number. Criticism and eulogy are both welcome.

Ehthusiasm and Experience make a good team, but there more power is needed, hitch up Perseverance with the other two

Beware of moldy or decomposed silage. The latter is very unpalatable, while moldy silage is a dangerous feed, particularly to horses.

Hens will not lay when confined to damp, drafty quarters; give them light, fresh air, plenty of feed and make them work for their living.

It is possible that our next issue will not reach a number of subscribers until after December 25, so we take this opportunity of wishing one and all a Merry Christmas.

The last Provincial election was a comparatively mild affair, but we venture to suggest that the next Dominion election be held in July to prevent mud slinging.

When getting out the wood supply remember the value of growing timber. Clean up the fallen trees, but spare the growing stuff, for it is making money for you every day

This is the farmer's season for reading and planning. The new year is just around the corner-plan to make it the best and most prosperous in the history of Cana dian agriculture.

A recent report of the Dominion Bureau of Statistics credits Canada with $2,859,510^{\circ}$ turkeys, geese and ducks. Should another census be taken this week, it would be found that those figures are terribly diminished.

When you have finished reading the Christmas Number of "The Farmer's Advocate," lend it to a friend or neighbor who is not fortunate enough to be receiving it; by so doing you will confer a favor on two parties.
Hon. Mr. Doherty says that the Provincial Winter Fair will remain in Guelph. That will be good news to a large number of farmers and breeders who have long honored that worthy exhibition with their support and patronage.
When clover or other leguminous hay is not available for dairy cows, some protein-rich concentrate ought to be added to the grain ration. When a dairyman begins to study rations with a view to balancing them, he realizes at once the value of clover or alfalfa.

A heavy program of Winter Fairs and Conventions and according to "Farmer's Advocate" custom these will be ruported thoroughly and accurately. Farmers events, and should watch carefully for the reports.

Safety on the King's Highway
An automobile came tearing through the night not long ago on a much-travelled highway. The glaring headlights cast volumes of light across the road, but travelling in a horse-drawn vehicle. For an instant traveling a hersedran with fright, the man hesitated; the horse was paralyzed with fright, ut without hesitating went on into the night leaving ar, without hesitating, we only some fragmentary pieces of glass to indicate a minor damage to itselr, but at bug and badly piled a lifeless horse, a shattered buggy and a badly
injured man. Anyone can sit up nights and with loaded gun guard his person or his property against harm, but on the King's highway one is at the mercy of daring, reckless and sometimes brainless drivers of automobiles, who often care little for the rights of others and less for property and life. When horses were the sole means of transportation the instinct of the brute often preyented accidents which his master would not have avoided, but the automobile is cold mechanism, with out mentality in any form, and will run headlong into man or a stone wall at fifty miles per hour if the driver so dictates. Against such combinations as we often find in automobiles and their drivers, the pedestrian, or traveller in a horse-drawn vehicle, has little chance on the road. There is altogether toombile for the, careless and fool-hardy dri's highway. Ther are laws, of course, but no statute or litigation can restore the life of one sacrificed through a disregard of those law. Motor learues have done much to make moto aws. safe and to secure the rights of all who may care to use the public highway. Motorists, too, as a rule are courteous and observant of other's rights, are cautiors, cow whe by their recklessness but there lives and property of all. It is these few endanger the lu a prily dealt with by those authorized who should te summald be no opportunity afforded for a second offence.

A Fair Trial for Sweet Clover
The subject of sweet clover was tabooed by experiment stations in Canada until long after farmers ascertained for themselves that the plant has certain merits, and practically demonstrated for themselves how far this kind of clover would function as a farm crop, through these years now claim that the yellow kind is but many farmers almost all the good features of the white clover without some of its disadvantages. The unfortunate part of the whole situation is that no experiment station seen the subject, position to come out with any vest variety for general use telling farmers which is the possibilities and and making a statement as legume.

There is no occasion for prejudice on the part of experimenters against sweet clover. It has its limitations, we believe, but it also has possibos hes should not be ignored. Hundreds of farmers have faith in it, and that faith is based on trias such as ordinary farm practice will permit. There is, however, fertile field for investigation concerning this much-talked-of plant, and that investigation should be conducted by a public institution equipped fair trial, covering We have given the white variety and find it specially four seasons, at were purposes as well as a good soil renovater. As a hay crop, we have not been so sucessful with it, and it is in this regard that advantages are claimed for the yellow variety becald take hold of this
problem right here and soon be in a position to give farmers the desired information about sweet clover. New problems are continually arising, and they seem to crop up more unexpectedry than they did he past. Our experiment stations have been and are f inestimable value to the agricultural iown, ond they have let the light into ory old steered farmers out of the unprofitable fields into grear pastures; but we believe they would be of still more service if they would make a closer study or ther needs and endeavor to get a little closer to him in his daily tasks.

## A New-Ontario Problem.

 Land speculation has been the one great obstacle to the development of New Ontario during the last decade. Every pioneering country has its problems, but there are few new districts in Canada which have suffered so much from the land speculator as has Ontario's Northland. This fact was apparently borne in upon the mind of the Premier and his colleagues during their recent pilgrimage into New Ontario, for at North Bay, on December 8, Honorable Mr. Drury made reference to the single tax principle as applied to the taxation of property, and said he thought it might be applicable to the North.Land grabbing always takes place in and about towns and cities wherever they may be located, and under such artificial conditions present-day codes almost excuse it in practice, though it may be generally condemned in principle. However, in a new country where settlers are enduring hardshipsenough, it is not fair or just that land should be hed for speculative purposes when desired for home-making and for cultivation. Frequent trips into New Ontario have convinced us over and over again that drastic action should be taken, and we doubt if a mild form of single tax with a local option rider attached is strong enough medicine for the ills of the North.

Early in the history of New Ontario, when land in the neighborhood of towns and villages was plentiful, the hand of the speculator did not bear so heavily upon the pioneer. Now, families have grown up. Sons desire to take up land in the neighborhood of their parents, so as to avoid heavy expenditures in implemente and equipment; and in-coming settlers prefer to locate in the neighborhood of civilization rather than in the wilds, with all the attending dangers and inconveniences. The development of New Ontario has cost more than it should, for the simple reason that roads had to be thrown through the wilderness for the use of settlers; who were obliged by the speculator to go miles back from the centres. More schools became necessary on from the centres. Mistances children were obliged to travel. The dangers from fire and the terrible casualties could have been lessened if the population were not so much scattered. Churches, schools and social centres would sawe been greater factors, and the life of the pioneer more peasant had not so much land been held in order thare its value would be increased through the toil of that its value would bet venture the suggestion that these thers. We worthwith for principles nimprone but if the far-reaching signiancent their intentions of lleged own it is no more than fair developing and mprong, or be.placed on the marthan ket for the benefit of wish which we discovered that, the unearned in the present valuation actually responsible for equitable manner an the the . This, of course, embraces that a but it will take theory a ong for New Ontario

Better farming linked with more and better live stock should be the aim for 1920 .

The Farmer's Advocate AND HOME MAGAZINE


> THE WILLAMM WELD Co Company (Limited).
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## The Annual School Meeting.

Suffcicient interest now centres in the rural school to warrant country folk taking the annual school meeting seriously. Educaw.in is one of the leading topics of the
day Ail sonts of courses are heing recommandel till day. All sorts of courses are being recommended; all
kinds of curricula are being advised
Some consider kinds of curricula are being advised. Some consider certain subjects as non-essential, and would replace them forthwith, while others view those very subjects as the fundamentals of a broad, useful education. In the minds of some the consolidated school is the only solution of the sural school problem, others oppose the idea. It would please a certain element in our population to see agriculture the paramount subject, and in defense of this they argue that it would equip country
While agriculture and nature study should be taught in every school, they ought never to the be taught prominence as will place rural pupilis at a disadvantage when they come into competition with urban children: neither should they be allowed to handicap the country boy and girl if they decide that some life other than
Teaches'
Standards of ederiestion be given consisideration, if the standards of education are not to be lowered. Ex-
perience must be recongized Perience must be recogiizec in the Tenumeration which petent instructors in the service can we expect to do the right thing by our children.

All this suggests that the very best men in the sthoor section be appointed to the board of trustes, and the right of women to a seat on the board ought
not to be denied. much time for community service, but the school affects them and their children so vitally that they would not fail to render very material aid in the management of the local educational institution.

Women's institutes and other organizations for farm women have been and still are doing a great deal to
make school life more pleasnt and profithle tor the bildren, and the good work they are doing could ncreased by giving the women more say in the management of affairs. At any rate, the times demand a keen the annual meeting this year should reflect an anvakenced interest in school matters
Trustees, inspectors, and all those interestel in ducational matters, may be called upon to advisw as to

## such a contingency arise, the value of a live trustee

 board will become obvious at once. The one opportunity of the year to present your ideas will be afforded at the annual school meeting. Do not rin to tere.and take advantage of the rate-payer's priviege.

## Looking for the Reason.

Some almost unbelievable things have taken place in our Province in the course of the past few weeks A year ango ot willd have taken a prettry hardy prophet
to have faced the ridicule he would have brought on himave haced the ridicule "We wort's. Covernment in himself by predicting a "Farmer's" Government il
Ontario. It has all come so suddenly and unexpectedly. at least to the majority of us, that we are still wondering how it was done
there has been we other noteworthy accomplistiments there has been, we know, forces quiety at work betind
 experienced of professionals.
To the most of us the
tarmers have accomplisthed what so many fave hat declared the larmossible, that is, to stick topether at election time is the one thing of importance. How we came to do it is a secondary matter. At the same time it is of
interest to the man of the inquiring turn of mind to g interest to the man of the inguiring turn of mind to go
a little fuuther and ascertain what forces have been at work, or what principles have been brought to bear
to brinu about the present apparently gatisfactory to bring about
political situation political situation
wa
We are incined to think that it must have been the same as that of Danton, the French revolutionise
When addresesing the people he said: "In order to defeal the enemies of this country we need audacity, and stil more audacity, and always audacity
Thate Formers" must have taken their ""ue" tron anywa, Probably the w will call it "theek." And
it must be admited that the whole accomplisment has called for the exeercise of considerable nerve on the part of somebody. From the time of the frrst proposal
to rum independent candidates in practically every
 accuse "Far mess" of any great lack of "audarity"
And I, for one wouldn't want to say a word azainst thi qualty in a man, or a party, as a help to the attain mient of sucess." "Nothing, evenure, nothing wint along the same line that justify us in usino a cerrai amount of "push"" upon ocoasion, even if it should be characterized as almost rudeness by those who feel th
full effect of it The melk myv inherit to full eftect of it. The meek may "inherit the earth,
but its very doubtrul if they will ever rec control of thi Government. Itest remarkable how often success is case of self assertion. If we wanted an example we could find it in the caseof thel late ex-President Roosevelt
And if we take a look at the down-trodden peasan class of Russia we will get something of an in idea of the result of lack of selli-asestion.
It would have been a longt time before the farmers It Ontario would have been invited into Toronto Lgisative halls in sufficient numbers to give them
controlling voice in the Assembly. And the dav is pas when a man's trade or profession will keep him out of positions of trust and responsibility, such as the mem
bers of our Parliament hold. A fai share of intellect is one thing reguired of him. This is of even more mportance, therere with hann auracily. But the tws combined in the one individual or the one government think they know of particularar and individual cases that are an exception to at least one of the rules we have
laid down. Some men cannot be said to pe very self: assertive, and still they seem to have been able fo gec
reety nearly, to the top of the ladder of sucecss. pretty nearly to the top of the ladder of success
has been said that not one of our Provinicial Cabine Ministers made any move towards securing for himself a seat in the Government. They all had to be asteed assertion here. One of the minititers, speaking to somen
 rnn not dreaming, Six weeks ago I was in overalls doms the work around the tarm, and now titapears
 some other qualifications for successs. And there is. It in inn necesary to go back on the

 is preparation. It isn't necessiry to gy into an arpu: brought to our attention. The thing is thit an strat
many men are forget ting this fact or are oretlokitin it
 tithe idea, of fiting themselves for the job they woul? Even without a personal aquaintance with the newn

the position and work that has now been given him. hey may not have been conscious of it, but they wer That was why Opportunity stopped off. long enough to knock at their doors as She passed through. very apt to disturb the man who has been asleep on the nan makes a habit of getting up at five oclock in the morning and the other never gets up until nine, the equilibrium is soon upset. As little as that may make Il the difference between success and failure. One man the other is just waiting for $i$
And so, in summing the matter up, we can only say hat-if we find that our audacity, or self-assertiveness natural intellect was not the key to unlock, or if our to Opportunity, then let us get down to work and give our job, whatever it is, our undivided attention until, in the natural course of events, it is proved we are ready This may not be
third raters, but it's the only way out of the woods. We'll get lost on the short-cuts.

## Nature's Diary

n epoch-marking event in Canadian ornithology the publication of "Birds of Eastern Canada" by P. A. Taverner, which has just been issued by the For many years there has been great need for such work as there has been no book on the birds of eastern a work as there has been no book on the birds of eastern nithological knowledge
No one is better qualified to write such a book than Mr. Taverner. For twenty-five years he has studied Canadian birds, and for the past twelve years he has devoted his whole time to this subject. He is not only good all-round biologist and a clear, forceful and facile This book is excellent, both in plan and execution The purpose, as stated by the author, is to stimulat an interest, both aesthetic and practical, in the study of Canadian birds, and to suggest the sentimental, scientific, and economic value of that study, to assist in the identification of species, and to furnish the reader with a ready means of determining the economic status of the various species. This work covers all
the birds that the observer is likely to meet with bethe birds that the observer is the prairies, taking in all the species of that region with the exception of casual visitors and stragglers.
The first portion of the book is general in character, treating of classification, geographical distribution, migration, protection, means of attracting birds a fully illus-
thological literature. This is followed by trated "key" by means of which any bird can be placed in its order or family
The body of the book
The body of the book, embracing pages 41 to 218 , onsists of descriptive ornithology. Every order and family is concisely characterized, and every species is
treated under the headings-distinctions, field marks, nesting, distribution, general notes and economic status, The data given under all the headings is importicularly that given under helr inable to the beginner in the study of bird life, as here the points by which an expert observer is able to recognize the different species in the field are clearly presented. The more useful by the fact that the other snecies all the more useful by the fact that the other species
for which the species under consideration is likely to be mistaken are mentioned. The data presented undef "economic status" is of the greatest interest and value to the farmer, as here, for the first time, is brought
together all the more important data on the food habits of all our eastern birds, and it is now possible for the agriculturalist to readily ascertain whether a certain species is beneficial, harmful or neutral.
In the section on general notes Mr. Taverner has very happily picked out the salient points concerning each happily picked out the salient points concerning are not mentioned in most ornithological works. One cannot help wishing, however, that these sections had been made fuller, particularly when one considers the
wonderful fund of ornithological information that the wathor possesses. It is probable, however, that these author possesses. It is probable, however, that these
sections had to be curtailed in order to keep the book from assuming too voluminous proportions.
A very attractive feature, and of very great practical A very attractive feature, and of very great practican
usefulness, is the inclusion of the fifty colored plates on which over a hundred species of birds are portrayed in their natural colors. In many of these pictures both terially in appearance. Such work as this would in the ordinary marke
retail for three dollars or more, but it is issued by the Dominion Government for the nominal sum of fifty cents. It is certainly the best fifty cents worth that
those interested in Canadian wild life have ever been those interested in Canadian wild 1
The preparation of such a comprehensive book en tiits an enormous amount of hard and pains-taking work, and all who amount of hard and pains-taking

## THE HORSE.

## To Prevent Stocking

 A tendency to swelling of the legs or "filling, certain conditions. While the tendency is meare exempt.in heavy horses, light ones are by no ment in heavy horses, inght ones are by no means exem pes
Horses of any class that tack ruality those whose legs Horses of any class meaty rather than hard and flat,
are inclined to be medisped than those of good quality. Of are more preilisposed the legs due to actual disease o
course, a swelling of the iniury, is frequently seen in all kinds and classes, but
wie refer to the condition when it occurs without apWerener case, and, white not generallly ocnsidereds serious parenble to result in disease if it continues for any con-
siderable length of time. It is generally due to sluggish siderable length of time. It is enerally due to sluggish
irculation in the vessels of the extremitites, but just
just circulation in the iessels limbs should become sluggish
why circulation in the in so many cases is somewhat hard to understanlar
When horses that have been on pasture or at regula work are kept idle in the stable when ine weal becomes cold we the trouble frequently occurs withou of exercise, buble cause. It is more common during early
any apprecia an other time, but in many casess persists
fall than at any any apprecabacte ather time, but in many casès persist
fall than at any oter
duning the winter. Some horses are so predisposed during the winter. Some horses are so pressposed
to it that it is almost impossibe to prevent it without to is that ittention and care. There are many pre-
constant att constant aceases. Some horses are congenitally pre-
disposing cause
disposed on account of their conformation, or lack of quality. High feeding on grain and lack of exercise either combined or singly are predisposing causes,
on the contrary (paradox oxical as it may appear the on the contrarion-that is an insufficient supply of feed-
posite cond to
often has the same effect. It is not uncommon to notice a poorly-nouristid arse, ne, nether is it seldom condition, whose well-nourished, well-fed, well-cared-for animal in the same condition. When this abnormal
condition is not the result of disease or injury, the swellings become dissipated after the anl ins are due, as exercised for an hour or two.
stated, to sluggish circulation. Exercise increases the
circulation and stimulates the absorbents, and the exuldates that caused the swelling are abs
carried away, thus reducing the eculargemer well-advised
While the condition may occur under and apparently careful treatment, poor attention and
faulty digestion are fertile causes. Horses whose bowels
 stock, hence preventive measures are advisable. When horses that have been at steady work and heavi
on grain, are changed to a period of partial or total on grain, are changed to a period of partial reduced,
idleness, the grain ration should be greatly and some means should be taken, especially for the first few days, to give them some daily exercise. An othed
words, violent changes in feed or usageshould be avoided. words, violent changes sheedor horses have been running on
On the other hand, when grass, or under other conditions getting little or no grain and change of conditions renders it necessary to he have
grain, the change should be made gradually. We on other occasions mentioned sudden hanges orated asent, but are now discussing them simply in regard to their influence upon the conditions under discussion Whether horses be beir bowels in a reasonably laxative condition. We do not meant
diarthoea should be maintained. A protracted state of this snature might cause the very condition we are
trying to avoid. Most of us have noticed that stocking trying to avoid. Most of us have noticed in the fall a add
is not so common during the summer as is not so commono theng the horses are receiving practically the same treatment. This ise seasons when grass is
from the fact that during the seastan green, most horses, though not actually on pasture one way or another ge effect noted. At seasons whe this laxation cannot be obtained, a substitute shoulruss provided, and this substitued aters or owners, that The too-common idea of teamstersary to keep a hors "right" is irrational and harmful. A healthy hors requires no medicine, hence the main point is to keep him healthy. Hay and oats, of course, are the feed principally depen respiratory and nervous, but some vigor, muscuar, respiritory aft the appetite and aid
thing else is required to stisl the
digestion. This "something else" should be both tasty digestion. This "something else" should be both tasty and laxative. Nothing better mangel or turniip, or a coun be given; an of carrots given once daily, preferably at the mid-day meal. If large quantities of roots are fed to working horses the laxative effect becnot be given them and there are some horses that cannot be result; such horses, of course, must be treated accordingly. When be fed without undesirable results, a feed of scalded bran a couple of times weekly, or a littte linsed med
daily, or a little raw linseed oil mixed with the feed once dally, or a littie raw inseds, r , when it it not expedient
daily, will give good results; to fed anything but hay and grain, a reed of bor the
oats or a little boiled barley will probably answer purpose. In a few words, it it in most cases necessary
to make some slight deviation from dry hay and oats in mader some slight deviation from thep the solsting poperly. It may be hard to understand, and some will deny the fact that
"horses fed on rolled oats are not so liable to e ther
in divestive or leg trouble as those fed on whole oats.
The writer has not fed a bushel of whole oats in twenty-

## five years, and white his horses during that time have been used osely for road and sadde purposes he ha not owned a horse that was "washy,

 when driven.A few words re curative treatment. When a horse
has reached the stare when he "stocks" it is good
practice to stimulate the has reached the stage when he "stocks" it is good
practice to stimuate the action of both bowels and
kidneys. A purgative of 6 to 10 drams of aloes (according. to size prat patient) and 2 drams of ginger should
be civen. After the bowels have regained their normal be given. After the bowels have regained therir normal
condition, a dessertspoonful of saltpetre should be given in damp feed, or in drinking water, once daily for three
or four days, to act upon the kidneys. Then the anima
 rubbing the legs frequently gives good results, and, if
stiocking persists, the application of bandages of a somewhat elastic nature, moderately tight, act well. The
bandages can, if necessary, be eeft on all the time the patient is at rest. The slight pressure and warm shey supply stimulate
telieve and prevent filling.

Future Herse Production. Editor "The Farmer's Advocate'
The growing popularity of the automobile has influenced some tarmers in the belief that horse breeding
will no longer be profitable and the writer has in the last year been frequently told that the average farmer could not expect to make money raising colts. We
think this is an extreme and erroneous view. The think this is an extreme and erroneous view. .he grown, is brighter than ever. It is true that the day of the ewe-necked bronco and light driving animal has passed forever; the market for such stuff 1s gone, but
the demand for big draft stuff is still good and bids fair to remain so indefinitely. In parts of the country
horses must te kept on the farms as of old; even the


Faithful Farm Servants.
tractor may be found there also. There are certain tractor may be found require horses, and the farmer
farmo operations the
cannot dispense with the horse entirely if he should cannot dispense with the horse entirety if in
wish to do so. While the number of horses required can be reduced, it is only up to a certain point, for the tractor can
of the horse.
The fancy driver will never have the vogue he had in days gone by, but one need not be surprised to see a revival of his popularity again in a smatl measured
And there are sections of the country and innumerable small farms, where the automobile and tractor invasion will not reach, such as in a rough, hilly country, which farm power.
We believ
We believe the fear ill-founded that the day of the horse is over. All signs point to the opposite view.
But in the future the breeder must stick to the bigr But in the future the sueder museders are firm in the
blocky ype of horse. Some bre blocky type of horse will net hold his own against the tractor or any other power devised to supplant him,
or rather will not do his work more cheaply and effectively. Just how far the tractor can do this is not yet proved, but granting that the big trim said that we can
an economical power, it cannot be s. even cut horse production in half. It seems co be shown that the heavy plowing in hot weather can be
done more cheaply with tractors than with horses and done more cheaphyuling so much quicker that the horse the turce second place in long hauls. But we have not got to the point where our roads are always passable
for trucks, and we still have wet seasons when the for trucks, and we ste to the field, owing to its weight
tractor cannot be taken It might be possible to over-stock the market with
big draft animals, but it is not probable. The city streets are now nearly free from horse-drawn tratfic but the tarm must weep ason when the tractor remains
the pinch, like a wet seas in the shed If we produce two-thirds of the usua number of dratt cotits, Arices. A good mare can do plenty
keep horses he can make the colt help pay for the keep
of the mare. At farm sales the bip colts and horses still find buyers, while the small, inferior animal is hmost a drug on the market. It is plain that the
hoses we keep must be good ones, for this is the kind
demanded.

## LIVE STOCK.

Trade in Live-Stock with Belgium. The following live-stock notes have been forwarded to us by the Dominion Live -Stock Commissioner,
H. S. Arkell, Ottawa, dealing with Canada's trade in live stock with Belgium, and interesting points regarding spring market prices for beet. ,The following quotation is from a letter received from the Minister of Commer struction, Brussels, Belgium in live stock between Canada and Belgium In th will be possible to maintain this trade, but, as you wíl understand, in smaller volumie than at present, as agticulturre
in Belgium will be able to fill the needs of the country more and more as reconstruction of the live-stocik
more
industry progresses toward the state existing beforet the industry progresses toward the state existing before the war; however, even when completely reconstructed
Belgian live stock will always be insufficient to satisfy the needs of the country. "' ${ }^{\text {Before the war, we were importing fat stock from }}$ Holland and also a small quantity from France, and it Holland and also a sman quantity ithenole of the inport is probabents will be received from
commercial current has been created. . Belvium, as you state, is also in oed horses "Belgium, as you state, costlso A few importations but not as mach from the United States and Canada but the prices asked were high, and the quality of th animals was not always satisfactory to our breeders believe that it it necessary to be very careful in the rrganization of this particuare trade. Horse
Belgium will be reconstructed very rapidly, and the breeders are, at present, looking towards Germany where there is a possibility of recovering animals of the Belgian breeds taken away during the war, and the "Records at the Live-Stock Branch show that during the past four years the average prices o.. ail grades on
butcher sters of good weights were $\$ 1.00$ or more per and Conadian markets during the hundths of January, February and March, than during October, November and December, the preceding three months. Market history doee not always repeat: nevertheless, the worla in many of the chiet exporting
beef, the feed supply in countries is, as a whole, scarcely more than sufficient to carry stock on a maintenance ciet througnt he winter months, and importing countries continue to show unusually stable activities in the market for fanished
beef. Sufficient premises exist on which to base the opinion that weight and quality will be at a premium on the spring mality
weight and quality.

Watering the Stock
Water is important for all classes of stock. To limit the amount, increases the expense of putting an animal in condititon. All animals require a considerable amount of water for their boorily needs but there is as the milch cow, as
of stock which requires on much as
 supply the body needs Animals can live longer without
solid Yood than they can without water The process of solid food than they can without water The process of
digestion mastication, absorption and assimilation are digestion, mastication, absorption and assim
hindered, the blood thickens, and waste matter remaine hindered, tin the intestines when the water supply is not sufficient. It is generally believed that for the most satisfactory and economic, results, farm animals should have alt the water they wrer for water than do the starchy,
create a greater desire create a arreater feds; thus, a cow on test, being pushed for
carbonaceous
fed a high record, and fed heavily on nitrogenoust eeds wil
reaviire much more water than her stablemate receivin require much more water than her stablemate ereciving
less protein Henry and Mortison, in their book on "Feeds and Feeding,", show that under normal conditions animals consume a fairly uniform quantity or water each pound of dry matter eateh, cows, four to five pounds
at four to six pounds for milch con for steers, two to three pounds for horses, and for sheep and swine, seven to eight pounds. Tho sistites state that seems rather highi. ould not only have an abundan suptening of cattle staminated water at all times, but it supply of uncontaminated
should be easily accessible. While it is best to have water before cattle at all times, they readily adapt themselves to taking a fill once daily, and
swine, there is sometimes dificily in getting them to swine, there
take sufficient water it the winter time, especially when it is cold. With all farm animals it must bust remembered that the water ture by the burning or con-
be raised to body temperatur se raised to body temperaure Thus, an animal forced
sumption of food in the body. The sumption out of a hole chopped in the ice will require
to drink of more feed to keep it inderate temperature. On many drinking water at a moderate temperayure or wice a day, to drink out of a trough, and there are some stockmen who maintain that this systhem than permitting them to exercise and is beter hor at all times. However, this

QUEBEC MEETINGS
does not agree with the results obtained in experiments
and in practical feeding operations. True, the animals and in practical feeding operations. True, the animals
need exercise, but having water before them in the stable should not prevent them being turned out for a half hour or so on a fine day. When the cattle are watered in the yard, it necessitates their being turned out whether the weather is favorable or not. The
inclemency of the elements may do them more harm than will result from the lack of exercise. Dairymen and steer feeders are equipping their stables with wate bowls or drinking cups. In this way the cattie obtain water at a fairly uniform temperature from day to day when the cows are turned out in the yard, the boss anima stands over the trough and prevents the timid ones from getting a drink, or some animals may not feel like drinking just at that particular time, with the resul
that they go back into the stable without having thei that they go back into the stable without having thei stock have noticed that even when eating such succulen feeds as silage and roots, the animals will stop and tak a few mouthfuls of water. Many times a day wil the animals drink if the water is before them. Thi must undoubtedly result in better returns than if they
must take their day's drink at one time. The first expense of installing a water system in the stable looms large in the eyes of some, but, figured over a term of years, the cost is negligible considering the advantage
to the animals. Not only do the stock get all the water they want when they want it, but the temperature is more moderate than when the water comes from an icy trough. A breeder cannot afford to have his calves young stuff, and mature cattle look gaunt and possibly get it at the trough, or from neglect of the attendant to offer them water. Water is essential to the health and well-being of the anmal, and it is the cheapes material that enters into the ration.

Tuesda
Feb. 3, 9.00 a.m.-Ontario Swine Breeders' Associa3, 9.30 "-Canadian Trotting Association , 9.30 -Canadian Trotting Airectors' Meeting. 3, 10.00 " Ontario Swine Breeders' Associa3,10.00 " -Dominion Shorthorn Breeders' Association, An Temple Building.
3, 11.00 -Canadian Jersey Cattle Club, An11.00 nual Meeting.

3, 11.00 " -Canadian Standard Bred Horse Society, Directors' Meeting.
3, 2.00 p.m.-Canadian Trotting Association, Annual Meeting.
3, 4.00 " -Canadian Sheep Breeders' Associa-
3, 8.00 tion, Directors Meeting.

- Canadian Sheep Breeders

3, 8.00 " -Canadian Standard Bred Horse So-
ciety, Annual Meeting
Feb. 4, 9.00 a.m.-Ontario Sheep Breeders' Association, - Directors' Meeting

4, 10.00 " -Ontario Sheep Breeders' Association,
Annual Meeting
4, 10.00 " -Canādian Ayrshire Breeders' As-
4, 2.00 p.m:-Canadian Kennel Club, Meeting.
4 . 2.00 "-Clydesdale Horse Association of
, Canada, Directors' Meeting.
4, 4.00 " -Canadian Hackney Horse Society, Directors' Meeting.
oubl mieting
Tuesday. ${ }^{\text {Feb. } 3,2.00 \text { p.m. -French Canadian Cattle Breeders }}$ 3, 4.00 "French Canadia
, 4.00 French Association. Horse Breeders $3,7.00$
$3,9.00$ " Ouebez Sheep Breeders', Association . $3,9.00$ WedNESDA
Feb. 4, 10. -Quebec Swine Breeders' Association eb. 4, 10.00 a.m.-General Stock Breeders' Association

Sheep at the International Exposition, Chicago.
Canadian breeders usually secure a share of the priz money at the International, and this year was no ex In the fat classes for Hampshirés, James Sne than usua won first and second on his yearling wethers in a clas of thirteen, and secured the championship for in a clas on this entry. Peter Arkell, of Teeswater in a class of eighteen yearling Southdown wethers, Colonel McEwen, of London, was second. The championship, however, went to a wether lamb show by the University of California. Arkell had first second and fourth in Oxford wether lambs, and secure all the prizes in fat Cotswolds, and had the champion Lincoln wether and also the first-prize pen of lambs Mr. Lee-was also successful in securing the champion ship on his fat Leicester yearling wether. Snell, of Clinton, and Armstrong, of Teeswater, were successfu wether lambs, long-wooled grades or crosses, Lee secure first and also the championship. The first prize pen Mr. Lee. The showing of wether lambs also went to Mr. Lee. The showing of fat wethers was particularly


Junior Lad, the Grand Champion Bullock of the International, Chicago.

## Dates of Breeders' Meetings.

 Live-Stock Records Office, Ottawa, of the regular breedweek in February, and of the Quebec meetings to be held during the same week in the eity of Quebec. Breeders all over Eastern Canada eagerly look forward to this problems, and the attendance is always creditable. We give here the complete list as furnished us by the Canadian National Live-Stock Records Office. All of the Quebec meetings are to be held in the City Hall, meetings are not yet announced.Feb. 2, 2.00 p.m.-Canadian Thoroughbred Horse So2,2.00 "-Canadian Swine Breeders'

Announcement comes from the Canadian National

## Toronto Meetings

 2.00 tion, Directors' Meeting. -Canadian Thoroughbred Ho rse So2,3.00 " Ontario Berkshire Club, Annual 2, 4.00 " -Ontario Yorkshire Club, Annual 2,4.00 " -Canadian Pony Society, Directors' 2,8.00 " -Canadian' Jersey Cattle Club, Direc2, 8.00 " -Dominion Shorthorn Breeders' As2,8.00 "-Canadian Swine Breeders' Associa 2,8.00 " -Canadian Pony Society, Annualtion, Directors' Meeting
4, Evening -Ayrshire Banguet. Meeting.
, 8.00 "-Canadian Aberdeen-Angus Associa
4, 8.00 " -Canadian Hackney Horse
4. 8.00 Annual Meeting.

4, 8.00 " -Canadian- Kennel Club, Annual
4, 8.00 " -Ontario Horse Breeders' Association
4, 8.30 " -Ontario Horse Mreeder

## Thursday

Feb. 5, 8.30 a.m.-Ontario Cattle Breeders' Associa
5, 9.00 " - Ontario Cattle Breeders'
5, 9.00 Ontario Cattle Breeders' Associa
5, 9.00 " -Canadian Shire Horse Association,
5,10.00 " -Canadian Shire Horse Association
5, 10.00 " --Canadian Ayrshing. ${ }^{\text {Annal }}$ Mers

- 10.30 - Canadian Ayrshire Breeders' As
, 10.30 " - Clydesdale Horse Association o
2.00 p.m.-Canadian Hereford Breeders' As
3.00 "-Canadian Hereford Breeders' As.
3.00 - -Canadian Hereford Breedtor,'


## Friday

Feb. 6,

Meeting.


The Champion Fat Wether of the International, Chicago.
at Wether of the International, Chicago. exceptionally well fitted. The grand champion wether of the show was a pure-bred yearling
by J. C. Andrew, of West Point, Ind.
In the breeding classes, the Canadian ${ }^{\text {Fexhibitors }}$ were fairly successful. The competition, however, was very keen. Never was there a better showing of breeding sheep seen at the International. In a class of nine aged Shropshire rams, Larkin Farms were second, The champion ram came from Iroquois Farms; New York. It was a banner Leicester show and the money was fairly evenly divided among the exhibitors. Three Canadian pens competed. The aged-ram class was won by R. C. Armstrong, of Teeswater, but Jas. Snel secured the championship on his ram, and Snell had the champion ewe in his yearling. Both these breeders exhibited large, typey, well-fitted individuals, Arkell
\& Sons, of Teeswater, had the first-prize Oxford ram \& Sons, of Teeswater, had the first-prize Oxford ram and secured first with their flock in competition with
five others. Smith Bros., of Wisconsin, annexed the championship on their yearling ram, and McKerrow \& Sons, of Wisconsin, had the champion ewe. Colonel McEwen, of London, had an extra good showing of Southdowns, and in the aged ram class secured second place, while Larkin Farms were first. In the yearling and ram lamb classes, in which there were seven and nine
entries, respectively, McEwen was first and Larkin third, while in a class of eighteen yearling ewes McEwen secured third place, and was first and third in a class of twenty-four ewe lambs. The winning yearling ram from this flock was an individual of outstanding
merit. It is seldom that one sees as perfect a head and so well developed and fleshed a body on any breed of so well developed and fleshed a body on any breed
sheep. He is an exceptionally well-wooled sheep

December in fact no flaw tion. The ch lambs. With sheep were pu
merglen Far merglen
plackig looke
flock. In Lin vere very suc the aged ram
championship yearling entr trong, and th much of the understood stuff.

The Emtor "The At this se the approach event as one
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## Would

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Editor "Th
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fict no flaws could be picked in his type or conlorma-
in
The championship in rams was secured by Mc Ewen, as was also the first place for a pen of three ran lambs. With the flock and pen of ewe lambs, the Londo merglen Farms, Cooperstown, N. Y., in first. This
nlacing looked dike a little favoritism for the American lacing In Lincolns, J. H. Patrick \& Son, of Ilderton,
lock
In were very successful, winning first and second in all but
the aged ram class, where Lee nosed in second. The the aged ram chass, where in both male and female went to Patricks' yearling entries. In a min orasses the competition was Huch of the good stuff is on this side of the line. is understood that many of the Canadian breeders found a good

## THE FARM.

## The Annual School Meeting.

 Entor "The Farmer's Advocate" At this season a few words would be in order aboutthe approaching election of school trustees which, many localities, is about as sistless a go-as-you-please event as one could heard about education and citizenship. Women have acquired a very extended privilege of voting, and have shown the disosition and the capacity to exercise the franchise. Why should they not undertake a greater and more direct share in the management of the public
anhools? Heretofore they have been limited rather to making occasional suggestions, which their better making in the capacity of trustees have received with a species of conservative inertia, characteristic of gentlemen holding down office, say for 15 or 20 years in
succession. It has not escaped observation that since Sucuman's Institutes have forged to the front there has been a decided quickening of attention to school affairs within the range of their activities. So far as heard, this has been all to the good, and naturally suggests further steps in that direction. On city and town
boards of education notably, women have in recent years shown themselves efficient members. There are aspects of school life and work which women are peculiarly constituted to promote, and they also possess very generally the knack of having improvement made with promptitude, which men by reason of preand affairs are liable to neglect until jolted into activity by an unpleasant reminder from the Inspector of Public Schools. The lives and education of the youth of the home are of quite as much concern to the mothers or some respects, more so, and it is, therefore, not unin the privilege and responsibilities of trusteeship. ALPBA.

Would Barter the Agricultural Representative for a Piece of Road.
Editor "The Farmer's Advocati
"Philip H. Bolger, ex-Reeve of Adamston, created sensation by expressing the view that the money which
the Province and the county are now expending in ceeping open a District Office of the Ontario Depart
menit of Agriculture here could be more advantageously disbursed in the building of roads.
The above statement which appeared recently in a
daily paper, refers to a county which, according to Jaily, paper, refers to a a county which, according
Legistative Act, pays $\$ 500$ per year towards the Legistative Act, pays 8500 per year towards the sup-
port of work carried on by the Agricultural Repre-
penta entative, whose services would be dispensed with if
he ex-Reeve had his way. Fortunately all men are not of the same mind. Good roads are important and must be built, but anyone who has hat o getroad-work
done knows that $\$ 500$ would build a very small piece of done know that benefit at most a a handful of poople.
It
It would bould a long step backward to take the money t would be a long step backward to take the money tive, whose services are available to the whole country,
and spend it on a piece of road that would be used by and spend it on a piece of road
The Asricultural Representative system is something that the flarmers of Ontario should be very proud of.
It has been in vogue for over twelve years in some counties, and results. show that those in whose minds he movement originated rendered a great service
o the country. $M$ Most of the progressive farmers have linked themselves up with the Agricultural Representa tive, and have not only been money in pocket but have
assisted in disseminating knowledge of things pertaining assisted in disseminating knowledge of things pertaining to the farm, so that boys and girls growing up to-day
have a broader outlook and are equipped to take greate pleasure out of farming as well as finding short-cuts o profit. The Agricultural Representative is not
placed among the framers because as a class they are placed among the farmers because as a class they are
more in need of enlightenment than any other class. The people have shown by their vote that they consider he rarmers possessed of sufficient intelligence, industry government. But no man is on the wise that he cannot
learn something from others. If there are those who Reel that they have not been helped by the Agricultural
 can only lead in so far as there is a willingness to
In every county there are some farmers who refuse to
be led even to the greenest pastures. Through farmers'
clubs, which are becoming numerous, the Representative
will be enabled to will be enabled to reach every farmer by dealing with
groups, while it would be impossible for him to visit
every individyl work is largely of a practical nature, little time is found for study I It stands to reason, then, that a n agricultura!
specialist to advise on the many complicated problems specialist o advise on the many complicated problems
in connection with farm work should be available just of the body. The Agricultural Representative is a practical farmer, specially trained, and is constantly
studying farm problems. He knows what difficulties are likely to confront farmers. If he has been in the work for any length of time he has had questions that
have worried farmers fired at him hundreds of times from different angles. His deepest thought and study have been given to these questions, the answers are on system is sund, it it has; proved its value. Space will
not permit giving a detailed acconter not permit giving a detailed account of the activities
of the Agricultural Representative but it is isfficient of the Agricultural Representative, but it is sufficient
to say that those who would use the axe on him have not
followed his busy life or do not know what he is acfollowed his busy life or do not know what he is ac
complishing.
Nipissing, Ont.

CANADA'S YOUNG FARMERS AND FUTURE LEADERS

## Good Dairy Farming.

Editor "The Farmers Advocaning a the land, I As a young farmer just beginning on the land, nvitationr'in the issue of November 27;
At this time when purchased feeds are so high in price, one has to study carefully what to feed his dairy
cows for best results. I think one mistake is that we do not grow enough clover or alfalfa which will supply our protein without using a large amount of high-priced concentrates. If possible to get a stand
of alfalfa one field could be used for that purpose, and the balance of the farm run in a three-year rotationbeing used principally as a pasture crop, owing to their bility to stand drought and furnish green growth during the summer. Some may say that a three-year rotation for grain. My answer would be to grow potatoes, if help is available, and use the potato money to puracre of potatoes has grain or concentrates. As a rule, an of grain, and also serves the purpose of cleaning the ground and preparing for bigger crops of grain which
ollow Part of the potato money could also be used ollow. Part of the potato money could also be used
to buy fertilizers, and thus further increase our yield and
and giving the farmer a double profit on his potatoes.
My idea of growing feed for a dairy cow would be to My idea of growing feed for a dairy cow wor rougher for succulent feeds, oats as the grain feed, with the addition of purchased feds. This would supply the cheapest
feed, give the dairy cow the balanced ration, and put feed, give the dairy cow the balanced ration, and pu
the land in the best condition If alfalfa will not grow a four-year rotation cou
Middlesex Co., Ont.

A Modern Handicap.
Editor "The Farmers In your issue of November 27 you asked those whi to tell of the difficulties they were meeting in starting While I may not keep to that subbect, the young men dealing with one of the that is, the lack of proper agricul tural education. Possibly there are some who will not agree with me, and say that book a eornbination of pracit, is no good; but I believe that a combination of prac-
tical knowledge and knowledge gained from the study of books is far better than either one alone
Farming has developed into a more or less scientific job, yet our educational facilities have not ket pace
with that development. A generation or so ago it took brawn and muscle toen done away with bits the hard, stavistr work knowledge of the requirement it is ne different crops that we may make the most out of the land, of the composition of feecas that reeding may be done econt that are becoming more common the different
every year.
The different professions have their schools and colleges situated in various centres throughout the province. There are law schoos, diedicers professions, yet for the greatest occupation of all-the job of which Peter McArthur has said is the only man s oub only one tuly tequapped may receive training along agricul
men wishing to farm tural lines, and that so overc-cowded accommodate ariter's experienare, at high school, many hours and a great deal of hard work were spent in the
study of subjects that are absolutely no good to a person intending to farm. Not once since I have lef have forgotten by now practically everything I knew.
How much better would it have been if instead of
those non-essential subjects
tural lines had been taught? In my mind the taught tural schools in the various districts where the essential essential ones, something up, and, instead of the non- be of benefit to
farming taught. Then if the student wanted tinue his studies he could attend the Agricultural Midege, at Guelph, where he could complete his training.
WILIAM STuAR
Middesex Co., Ont.

## AUTOMOBILES, FARM MACHINERY

 AND FARM MOTORS.
## The Balky Car.

When a horse becomes a mass of mental and physical determination not to move, the problem of getting
action is sometimes extremely difficult of solution. In an automobile, however, the equine element, or in ther words the mental factor, is eliminated. The can nevertheless be treated along definite lines. When we refer to a balky car we have no reference to a ma chine that stops because of some mechanical defect. It is principally the motor that, having become cold
and refuses to run, we intend to deal with. The winter season is upon us in strength, but more than ever car are being operated despite the cold and snow. If you find that your motor will not start if you have left it standing in the open for some time, give it two or three but do not keep repeating these operations, because in the majority of instances they will be without re sult, and you will only succeed in tiring yourself or the battery. It is well to remember that excessive crankin ow. It is also wise to bear in mind that a battery is 100 per cent. efficient in the warm summer time, and only but 60 per cent. capable under exposure to cold veather. Putting an excessive cranking strain on a battery su
Having cranked your motor several times withour uccess, raise the engine hood cover, and by using the tickler fill the carbureter with gas, ir the motor nov efuses to operate get a hot This process usually provides quick vaporization for the fuel, and if it does not do anything more will likely produce several explosions and heat up the motor to point where starting may become posible, Failing in
these measures, get a super-heated piece of metal and these measures, get a super-heated if pou have an expert knowledge- of a blow-torch, use it, and immediat results should be achieved. We do not recommend flow-torch to an amateur, however, as to must be sany possible else that you can do when in dire straits, and that is to drain your radiator and completely fill the cooling systemn with hot water -of course, it will hardly be drivers are familiar with the fact that its function is to enrich the fuel supply by reducing the available amount of air. Another suggestion that has proven valuable is at combine the use of the hand crank with
that of the self-starter. To have someone operate the that of the seli-starteri Mo have someone operate thil
starter while you puil up smartly on the crank, will starter, while you pul up smarty on the
often combine efforts that give immediate satisfaction. We would be remiss if we did not warn you that under certain circumstances it is folly to force the starting of a car, Perhaps you are familiar with the fact that whe
explosions take place in a combustion chamber superheated steam is produced, and that this frequently strikes cool cylinder walls and condenses. The resulting water is forced past the pistons by the explosions and falls into the crank case. Just as soon as the motor the crank case, and if the mercury ie low enough will freeze in the usual way. This freezing can do considerable damage in certain motors where it is possible for it to jam the oil pump. If you start your motor
when the oil pump is frozen, something is bound to be when ene and so if your power plant seems to be unduly broken, ad it may be any time during the cold weather, it might be well to investigate the oil pump and make sure that it is not ice bound.
And the best way to cater to a balky mouno is coure, it protection. Never leave your car in an open space. Try to give it the protection of a building. If possible, use an engine hood cover, or are,t, of this character is from the wind the auto is headed into the wind in order used the rush of cold air may not penetrate. No matter how well your car may be covered up, if it is not headed into the wind the cold air will strike the motor and have a .
Receipts of cheese at Montreal from May 1 to November 22, this year were 152,705 boxes behind the receipts of last year for the same period. Figuring 80 pounds per box of cheese and 60 tons as the product of the average factory for the season, it is easy to figure that production the product of 100 factories. Much an amount equal to the prod due to the fact that fewer ows have been milked by dairymen.

## THE DAIRY．

## The Niagara Peninsula Holstein

 Sale．The annual fall sate of Holsteins，heldat Dunnville， Ont．，of．Wednesday，December 3 ，under the auspices of the Niagara Peninsula Holstein Club，did not reach any sensational figures in the way of high prices．The
averages，however，for the better lots were fair，and in averages，however，for the better lots，were fair，and in
nearly every instance the choicer things went at fast nearly every instance the choicer things went at fast
bidding for very good prices．Dolly Mercena 2nd，a
 McFadgen，Mandaumin，Ont．It will be noted that twenty－seven lots，which sold above $\$ 100$ each，made Ruby Hengerveld，Dept．of Soldiers＇Civil Re－ estab Crown．Ira Moyer Beamsville
Starlight Crown，Ira Moyer，Beamsvile Trenton Posch Civil Re－establishment，Guelph．
Primula of Harrisburg，House of Refuge，Haldi－${ }^{330}$ L．enroc Aaggie De Kol，Dept．of Soldiers＇Civil Re－ Llenroc Lady Pietertje，Robert Allingham，Man daumin
Snowball Ormsby，Dept．of Soldiers＇Civil Re－ Canboro Helbon Queen，Dept．of Soldiers＇Civi
 Princess Pat Bawndale，M．J．Byrne，Dunnville． Friederiche，John Webb，Caledona．
Pontiacs Hermes Ormsby，Dept．of Soldiers＇Civi Re－estallishment
tter Girl Aaggie，Robert Allingham
Butter Girl Aaggie，Robert Allingham．．．．Hutto
Mercena De Kol of Prospect Hill，F．G． Weiland
Pauline De Kol of Prospect Hill，F．G．Hutton－${ }_{26}$ Pauline Brock De Kol，Gordon Hunter，Niagara－on－ Cornucopia of Prospect．Hill，Jno．H．Hoskin， Doris Abbekerk Hengerveld，Gordon Hunter Flora May Hengerveld，Gordon Hunter Sarcastic Melba，Jno．Faucett，Dunnville Hulda De Kol of Canboro，F．G．Hutton，
Belle Pontiac Castine，Dept．of Soldiers＇Civil Re establishment
Pretty Polly of Willowbanks，Robert Al．ingham． Audrey De Kol，Gordon Hunter
Disy Colantha Houwtie，Gordon Hun
Dilly Colantha Houwtje，Gordon Hunter．．．．．．．．
Dolly Mercena 2nd，Geo．H．McFadgen，Man daumin．

Verstella Stock Farm Sale． The Verstella Stock Farm sale of Holstein－Friesian cattle was held on Tuesday，December 2 and recorded the remalume of sales was $\$ 13,373 ; 6$ bulls averaging $\$ 285.83$ ，and 38 females averaging $\$ 306.84$ ．For the class of stock sold，this was one of the best sales ever held in Ontario．The cattle were in good condition， the crowd was large and the sel was secured for Molly good．The high price of the sale was secured for Molly
Mercedes，a seven－year－old cow，that it is said will Mercedes，a leven－year－olk curing her present milking period．Her records show 27.76 lbs．of butter in seven days，and 102.1 lbs ．of mike in one on．The high－priced $\$ 700$ to Arthur H．Borndyke Plus，sold to Charles Hol－ boll was Pontiac Korndy．Thus，bull is by Inka Sylvia
borne，Lawrence Station．Th．
a Beets Posch，with 30 R．O．M．daughters， 6 R．O．P．
Borns．
daughters and 3 proven sons．Pontiac Korndyke Plus daughters and 3 proven sons．Pontiac Kornychere Phion
is out of Plus Pontiac Artis，ex－anadian champor with a seven－day butter record at four years of 31.55 a list of individual sales follows：

Pontiac Korndyke Plus，Chas．Holborne，Lawrence ${ }_{8}$ General Foch Mercedes，Geo．Laidlaw，Aylmer．．．．．．．． 405

Colonel Colantha Korndyke，W．F．Smith，Sparta．． 170 | Pontiac Colantha Plus，F．E．Huffman，Ay Imer． | 380 |
| :--- | :--- | :--- |
| 380 |  | Sir Pontiac Dorliska，of Yarmouth，J．J．Ashton，St．${ }_{210}$

## females．

Molly Mercedes，Arthur H．B．Keene，London
Ida Colantha De Kol，W．O．Dennis，Milton dosa Dorliska，Thos．J．Wilkins，Toronto ．．．． Rosa Korndyke Plus，M．L．Haley \＆Son，Spring
Aaggie Wayne Mercedes，J．J．Ashton
Katy Calamity，R．H．Graham，Horonto Tho．Thas Emma Colantha Wayne，W．F．Smith Emma Colantha Korndyke，E．C．Gillert． Lady Dorliska Coand，Kol，W．O．Dennis．．．．．．．．．．．．．
Flora Colantha De Betsy Colantha，Geo．Laidlaw ．Wilki．．．．． Ellsy Colantha De Kol，Thos．J．Wilkins
Daisy Colantha，R．H．Graham． Edith Colantha，Korndyke，Fred Carr，St．Thomas Susie Dorliska，W．Sager，St．George．

Dora Dorliska De Kol，W．O．Dennis， Nancy Colantha
Jessie Colantha De Kol，W．Windham，Guelph
Maria Colantha De Kol，Thos．J．Wilkins． Grace Colantha Wayne，Geo．Laidlaw Calf，W．Windham．
Lena Wayne De Kol，W．O．Dennis Ellen Iosca De Kol，W．O．Dennis
Annie Dorliska，J．J．Ashton
Inka Dorliska De Kol，Bert Carr，Glanwortho Bonnie Dorliska，Fred Minler，Lawrence Statio Thomas．．．
Maggie Colantha De Kol，W．O．Dennis．
Sarah Colantha Korndyke，E．C．Gilbe
Nellie Dorliska，Fred Cart．
Mary Inka Colantha，W．Hodgins，Clandeboye Peggy Dorliska De Kol，Fred Cart
Alice Colantha Wayne，Bert Carr．
Calf，Fred Miller

## Compounding an Economical Ration．

At the present time the making of an economical milk ration for the dairy herd is one of chief and most difficult problems for the dairyman to solve．A1 eeds besides，many are difficult to obtain．Now more than ever it is necessary for a dairyman to know that the feeds he is using are balancing each other，as well as furnishing plenty of variety in a suitable and palatable ration．As an instance dunlicated many times among dairymen，we had a milk producer come to our office sometime ago for some information about feeding his cows．He told how and what he was feeding，and asked us to suggest a balanced ration for his herd，since he felt that he was not getting sufficient milk．His cows were giving about
30 pounds per day and he was feeding 30 to 40 pounds of silage each per day，timothy hay（clover slightly mixed in it）morning and evening，and straw in the afternoon．The grain and concentrates consisted of a mixture of equal parts by weight of bran，shorts，oil meary four pounds of milk he thought his cows should

Now，of course，many readers will see several things wrong with this ration；among the most important being the absence of clover or alfalfa hay．This，how his timothy and buy other hay．Then，too，the presence of corn chop and shorts tends to make the ration very heavy without adding anything exceptional to the
ration that is particularly suited for milk production． ration that is particularly suited for mis
This concentrate mixture，as fed，was costing $\$ 3.20$ per This concentrate mid when balanced chemically showed a very low protein content，only one pound of protein
in fact，to 9.3 pounds of other constituents，such as carbohydrates and fat．It is understood among nearly all men who have fed successfully for milk production，
that the proportion of protein should be at least one pound of protein to six and a half pounds of carbe poundrates and fat for milk production and for cows yielding heavily，a much narrower ration than this even is desirable．
This dairyman furnished us with the prices of such feeds as he could procure，and we are presenting here
with several different combinations of these feeds in table form，with the nutritive ratio and cost of each at the prices furnished us，given below．
cheaper than number six，because a pound of bran also a wider ration，although theoretically ideal and good practically．

The above paragraphs and table are given merely to show how comparativery minor changes in a ration may increase or esser its cost and ereectiveness for
milk production．Dairymen can well afford to devoter meir production． their mos．
feeding．

## HORTICULTURE．

New Varieties of Small Fruits．
Some of the newer recommended varieties of small fruits discussed at the recent convention of Ontario
Fruit Growers were described as follows by Fruit Growers were described as follows by M．B．
Davis，Associate in Pomology to W．T．Macoun Dominion Horticulturist，Central Experimental Farm， Ottawa．Portia is a strawberry，Newman No． 23 and ount are raspberries，while－Lincoln and Wilkin＇s seedling are grapes．
＂Portia is very
dark green foliage．Proctically abundant large and is an excellent plant maker and is a variety that can be planted the maximum distance apart with the assurance that it will readily form a good matted row． The flower is practically imperfect，producing a berry In color it is a rich deep crimson，which is carried righ through to the core．With its regular conic shape attractive color and prominent seeds it is difficult to magine a more handsome product．As it is exception－ ally firm and solid it should be an excellent shipper especially if picked before it becomes over ripe．In
quality，it is good，possessing a mildly acid to sweet flavor．＂
＂Ne Newman No． 23 is pre－eminently a shipping boil than As it has done excellently on mucch heavier ability．The bush is a vigorous stocky grower of about four to four and a half feet high with rather an open centre，but strong canes with numerous branches． The fruit is large，slightly larger than Herbert，bright crimson in color and very firm．In quality it is prac－ close to Herbert with us，and apparently is as good on a heavier soil．As a canning berry it is difficult to surpass，holding its shape excellently．
of a place in a cour plantation where and is worthy which has in your plantace where an cary berry， which has good appearance，is a good yielder，a good
shipper and a good canner is desired．The bush is a very vigorous upright grower，about four feet in height and hardy．＂
＂Lincoln has given about 20 per cent．better yields mildew and quite hardy．The berry is somewhat smaller than Concord，being about the size of Brighton． The bunch is about as long as Concord，more oblong in shape and much more compact，making a very regular
and handsome bunch for market purposes．In quality and handsome bunch or market purposes．in quality
it is somewhat better than Concord．As a shipper we have no evidence except apparent character，which leads us to believe that it should be a better shipper than Concord．It has a thicker and tougher skin， Wilkin＇s Seedling is a white grape of medium size，
of better flavor than Niagara or Concord．The bunch is of good size and form，and quite compact．Season somewhat earlier than Niagara，skin about the same
thickness．This variety could well be used for the home market to extend the season of Niagara．

| Feed | $\begin{gathered} \text { Ration } \\ \text { being } \\ \text { fed } \end{gathered}$ | $\underset{1}{\text { Ration }}$ | $\begin{gathered} \text { Ration } \\ 2 \end{gathered}$ | $\underset{3}{\text { Ration }}$ | $\underset{4}{\text { Ration }}$ | $\begin{gathered} \text { Ration } \\ 5 \end{gathered}$ | $\underset{6}{\text { Ration }}$ | $\begin{gathered} \text { Ration } \\ \hline \end{gathered}$ | Price of feed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | lbs． | ${ }^{\text {lbs．}}$ | lbs． | lbs． | lbs． | lbs． | 1bs． | lbs． | 5 |
| Silage | 135 | 10 | 35 | 35 | 35 | 35 | 35 |  | － |
| Timothy hay（some clover） |  | 10 | 10 |  | 10 | 10 | 10 | 3 | 3.00 |
| Bran．．．．． | 2 | 3 |  | $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | 3 | 2 | 2 | 2 | 2.40 |
| Oil meal．． | 2 | 2 | 3 | 2 | 2 | 2 | ${ }_{1}^{2}$ | ${ }_{1} 11$ | 4.25 4.40 |
| Cottonseed meal | － | 2 | － | 2 | 1 | $11 / 2$ | 1 | $14 / 2$ | 3.30 |
| Corn chop． | ${ }_{2}^{2}$ |  | － | － | － | － |  |  | 3.40 |
| Nutritive ratio | 1：9．3 | 1：6．5 | 1：6．5 | 1：6．6 | 1：6．3 | 1：6．5 | 1：6．12 | 1：6．0 |  |
| Cost per pound for concen |  |  |  |  |  |  |  |  |  |
| trates． | 3.20 c | 3．14c | 3.21 c | 3．21c | 3．23c | 3.27 c | 3．33c | 3.40 C |  |

The standards commonly accepted by experimenters
investigators for 1,100 －pound cows piving 30 ． and investigators for 1,100 －pound cows giving 30 pounds
of milk per day calls for a nutritive ratio of one pound of protein to 6.3 pounds of carbohydrates and fat，and ments at a cost of only three cents more per 100 pounds of feed than the very wide ration previously being is ，number two，containing equal parts of oat chop， wider，al hough very slightly chatier The Theapest
is ration number one，costins $\$ 3.14$ per hundred．Com paring numbers one and three one can see that bran appears to be cheaper than oats．The substitution of a
pound－of oots for a pound of bran increases the cost
by seven cents per hundred besides widlening the ration a little Ravions six and seven are quite narrow，
but they are also quite expensive，due to the inclusion
of cottonsued meal．Ration number fout ion
＂Among currants，Saunder＇s，which is already on the market，is one of the best，while Kerry，which is a newer variety，is probably the pick of the whot
Cuttings of Kerry have been supplied to nurserymen
and will probably be on the matket next fall and will probably be on the market next fall．＇

## FARM BULLETIN．

Canadian Cattle for Hawaiian Islands．
The first shipment of catte from Canada to the Hawaiian Islands left Vancouver Saturday morning
November 29th，for San Francisco，where it will board Noember 29th，for for Kahalui，Island of Maui．The shipment consisted of eighteen pure－bred Holsteins and two pure－bred Jerseys，and is composed of selected
animals of the finest breeding and show－yard type
for the le The Mequest $f$

There ca Ontario Pr
Ontual fat
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The leading herds of the Province of British
Columbia. The entire order was selected by Professor
. A. McLean, of the University of British Columbia.
The request for this Canadian stock is a direct outgrowth

## Thirty-sixth Ontario Provincial Winter Fair Shows Steady

of the visit which Professor McLean made to the Terri-
tory of Hawaii last summer for the purpose of judging the live stock at their exhibitio This shipment opens a new and large field for British

Columbia dairy cattle, and in all probability is simply a forerunner for a good trade which awaits the live-stock
breeders of that Province, and of Canada, if they fully

There can be no doubt of the success of the 1919
Wincer The thirty-sixth Qntario Provincial Winter Fair. The thirty-sixth colors. Stockmen of all classes may well be assured that Ontario is coming along strongly in live-stock matters, after having and watched the excellent classes that almost entirely characterized the entire showing. one, and the weather came along true to form during the last few days of the show. For a day or two early
in the week it was pretty warm and soft, but by Tuesday in the week it was pretty warm and soft, but by Tuesday
evening the thermometer had gone down sharply, and Wednesday was almost bitterly cold.
Entries were exceptionally heavy in some kinds of stock, although not up to the volume set by last year's
record -breaking event in some other lines. Horses showed 339 entries, as compared with 398 entries last year, but some of the classes were remarkably fine and
quality was quite in evidence. Beef cattle were 271 quality was quire than last year. Here was noted a entries, improvement, emphasized by well-fitted stock of good quality. Dairy cattle were within one entry recorded. Sheep totalled 525 entries, in addition to 80 carcasses and 15 . Seed entries were 330 bered 355 , an increase of 5 . Seed entries were 330
strong, besides 64 entries from Standing Field Crop Competitions. Poultry again forged ahead and reached a total of $\mathbf{6 , 6 8 3}$.
that must be brought out by big entries like the above, that must be brought out by big entries like the above,
it is hard to understand why more farmers and stockmen do not make a point of visiting the Provincial Winter Fair annually and absorbing more of the spirit of live stock farming. Thousands do this to their everlasting benefit, but this only serves to emphasize the benefit other thousands are passing by when they
remain at home with such an opportunity facing them Nothing will so encourage a stock breeder and broaden his viewpoint as to make the pilgrimage to Guelph in December and meet there other stockmen and farmers. Ontario is a noted live-stock Province, but there is
always room for improvement and nowhere can one gauge this improvement more safely than at the large live-stock industry and should be supported by stock men, both by exhibits and attendarice.
exhibitorsectors luncheons, put on or the benefit o exhibitors and others, were exceptionally good this year
and were marked by splendid addresses. The Federal Minister of Agriculture, Hon. Dr. S. F. Tolmie, wa present for the first time, and delivered a stirring address of Agriculture for Ontario, spoke at Monday's luncheon Winter Fair continued assistance to the Provincia Marshall, Minister of Agriculture for Alberta, spok in his breezy Western fashion on Wednesday, and on the same day Judge Cridland, who had just officiated
at the Chicago International, spoke briefly after having at the Chicago International, spoke briefly after having
awded the grand championship ribbon in the beef classes.

Heavy Horses.
The number and quality of horses shown in the open
nd
Canadian-bred
classes at the the thitry-sixth annual nd Canadian-bred classes at the thirty-sixth annual
Dntario Provincial Winter Fair surpassed that of prein show-ring style and etiquette, the majority of the candidates were - exceptionally well brought out and were in good form. Several of the competitors in the
open classes had just landed. They have the recognized type and conformation, and seldom does one see an importation as good at the ground. A good many
entries were familiar to Canadian show-ring followers. They came out in their usual classy style, and in some comers. Seyeral new exhibitors competed and were everyone did not agree in sthong competition. that the judges did, there was general satisfaction. Both the grand chamthe least, they were grand specimens of the breed. Lafayette Stock Farm Company of Canada, Ltd., had The Belgian and Shire breeds were also represented. The a wards in the open Clydesdale classes were made by
Professor Toole, of the O.A.C., Guelph, while W. J. Bell, of Kemptville, and Aibert Ness, of Howick, Que., of Toronto, placed the awards on the Percherons, Shires
and Belgians. particularly strong, and seldom does one see so many individuals of the breed of such high quality at one show.
Judging from the large classes, one could feel assured that the horse industry is not going to be displaced by the tractor. Eleven aged stallions in the open class
held the attention of the large crowd of spectators for
well well nigh an hour and a half. It was by no means
any easy class to place. Smith \& Richardson had
three entries, which were recently imported. Baron
Bobs

Improvèment.


Monogram.

## Mampion Percheron tallion at Guelph for T.H.Hassard, Markham

Hillcrest, shown by T. H. Hassard, were in the ring, After moving the different- individuals and examining was placed at the head of the class. He had the most scale of any of the entries, and showed a good deal of quality and character. He has a good seithough he might be faulted for being little bit straight in the hock and shallow at the heel. How ever, his feet were big and he had very springy pasterns,
He is an exceptionally good-fronted horse and used his knees to good advantage, but he was only a fair goer knees to good advantage, but he was only Rello Crest, shown by Smith \& Richardson, stood in second place. This colt was not in the bloom
of the other entries, and. was rather thin, but it must be of the other entries, and. was rather thin, but it must be remembered that he has not had time toll coupled and strong boned. His feet and legs were his forte; not only were the legs clean and finty-boned, but the pasterns were set at the proper angle and the feet were as large as dinner plates and fairly deep. Tressilian, a stable mate of the above horse, with splerdid ùnder-pinning good-topped show the bloom of The Count of Hillcrest which followed him in the line. If The Count had a
little more size, he would be a hard entry to beat.- He has thickness, style and quality, and was in exceptiona bloom. His ankles and he showed good knee action ittle nervous; however, and did not show to as good advantage as he has on previous cccasions. Below him were seven right good horses; some were a little narrower than otlers, a few were not as draity as
breeders would like to see, and one of two went a little breeders would ring.
sluggish in the ring.
sluggishe class of aged stallions, importers excluded, br vght out seven entries, among which was Dunure horse and showed well. He has splendid quality of b:dy showing style and character, and is a drafty horse with broad, deep feet and springy pasterns.
In second place stood Dunnottar, a dark bay, with substance and good under-pinning. He was scarcely of the quality or stapy, clean-limbed colt, and well in third place, is a trappy, clean-limbed conted, but might be faulted for travelling a little wide. He had none too large feet, but is a little better in neck and breaching than the one placed above him. The champion in the open class was found in the class of three-year-olt in standing individual of great quality and general makelegs, ankles and feet are beyond reproach Like some of the other horses imported at the same of style shown when he walks or trots. Dusky Knight, a beautiful black horse with a shiny coat, was placed second. quality throughout. There was a baker's dozen of Baron Stanley. This entry, shown by the Experimental Farms, Ottawa, is a well-made, drafty colt
with the desirable kind of feet and legs, which he can use to good advantage when displaying his qualities. Westminster, another colt that is new in the Canadian show-ring, worked into second place. he is good at coupled, with a This enlry picked his knees and hocks
the ground. Travelled fairly straight. Marathon's Best a colt with more middle than most of the entries, worke into third place. He is a styish ind trappy action. He is possibly not as wide in the chest as some of his competitors
There were several extra good individuals that did not get in the money in this class.

One of the sensations of the show was a class of ten
Clydesdale enthusiasts will gather an idea aged mares. Clydesdale enthusiasts will gather an idea
of the strength of this class from the fact that Margery Daw, Syringa, Blink of Faichfolds, and Mendel Princess were among the competitors. These four have been champions or near champions in past shows. They all have excellent Clydesdale type and conformatul class. substance and character. It was a wonderful class.
Margery Daw, shown by B. Rothwell, finally stood at the top, and was later made champion. She is a mag. nificent mare, well ribbed up and showing quality and matronly appearance. She picked her feet up well in drafty mare with a great body, heavy bone and broad, how to show her good qualities in the ring. Syringa was the largest individual in the class, wha beautiful front, deep, well-ribbed-up body, and good under-
pinning. Another judge might have put her higher in pinning. Another judge might have put her higher in
the class; however, it was rather difticult, to get over
the two placed above her. Mendel Princess had the the two placed above her. Mendel Princess had the
best ankles of any and showed quality and style, bu she was a little fine in the bone and had not the scale
of those placed above her. The three-yeat-old clas brought out a trio, with Lady Stanley, from the Experi-
mental Farms, at the top. This is a quality mare, goo at the ground, but only a fair mover. Rose of Maple
and Hillcrest Queen were close competitors for the first place in the two-year-old class. Both are mares of reat quality, but mere, with flintlitel more substance her hocks well when moving, and her knee action could not be faulted. The latter mare also went straight and
nappy. If she had a little bit more substance. snappy. If she had a little bit more substance, Lady May, in third place, had not the scale of the colts standing on either side of her, and she went better behind than she did in front. Like all the entries shown
qual. Frhibitors -T. H. Hassard, Markham; Jas. Baker Exhibitors.- 1. H. Hassard, Marith Richardson
Bright; Jas. Torrance, Markham; Smith \& McKinnon \&
Columbus; Brandon Bros., Forest; D. Mcen Son, Hillsburg; Wm. Smith \& Son, Alma; J. Telfer, Milton West; A. G. Gormley, Unionville; S.J. Prouse;
Ingersoll. I. B. Laurie, Agincourt; Goodfellow Bros., Ingersoll; J. B. Laurie, Agincourt; Goodrellow Bros., Ottawa; F. J. Wilson, Rothsay; W. D, Forster Mark-
ham; W. J. McCallum, Brampton; W. W. Hogg, Thamesford; Geo. Miller, Caledonia; R. C. Rogerson, Fergus;
Robt. Duff \& Son, Myrtle; Wm. Buchanañ, Hensall: Robt. Duff \& Son, Myrtle; Wm. Buchanan, Seaforth;
B. Rothwell, Ottawa; T. J. McMichael, Sel
W. F. Batty, Brooklin; J. B. Cowieson \& Son, Queens: W, F.
ville.
Av
Awards--Stallion, aged (11): 1 , Torrance, on
Baron Bobs by Baron's Pride; $2,3,5$ and $8, S$ smith \& Baron Bobs by Baron's Pridey Scottish Crest, Tressilian,
Richardson, on Kello Crest by Sco by Sir Hugo, Everard by Everlasting, and Halsington Champion by Quicksilver; 4 , Hassard, on The Count of Hillcrest by The Bruce; 6 and 7, Brandon Bros, on
Aurelian by Auchenflower, and Earlo' Clay by Baronson. Aurelian by Auchenflower, and Earlo' Clay by Baronson, on Dunure Lucky Star by Baron of Buchlyvie; 2 and 6 , Telfer, on Dunnottar by Glenshinnock, , atd Knighe on Baron Senwick by Baron's Pride; 4, McKinnon \& Son, on Ravenscraig by -Apukwa; 5; Baker, on Wynholm by Baron Kelvin; 7, Lowieson, on Lord Morvin by Sir son, on The Select by Dunure Footprint; 2, Prouse, on Dusky Knight by Up-to-Date Knight; 3, Laurie on
Archer of Glencairn by Pride of Glencairn. Stalion two years (13): 1, Experimental Farms, on C.E. F. Baron Begg by Baron Stanley; 2 and 5, Smith Destiny by son, on Westminster by Cormation, and Destrathon; 4 and 6, Brandon Bros., on Herminius Again by
Herminius, and Dunure Expression by Dunure Gull Stream; 7 and 8 , McCallum, on Earl Gleniffer by lord cearling (7): 1 Orlando by Dunure David. Stallion yearling (7): 1, Hogg, on Denholmhill Prince by Den y Prince Ascot; 3 , Smith \& Richardson, on Maryfield Cad by Knight of Maryfield; 4, Hassard, on Count Farms, on Craigie Begg by Craigie Knowes; 6, Brando Bros., on Baron Elder by Baron Gartley; 7, Miller on General Miller by Kinpurnie. Stallion,
Goodfellow
Bros., on Wallace McGregor; 2, Rogerson, Goodfellow Bros.,
on Barney Hugo.
Mares, aged (10): 1, Rothwell, on Margery Daw by Dunnottar; 2, Gormley, on Blink of on Syringa by Mendel Sir Buchanan, on Favorite Belle by Popinjay 6 and 8, Hogg, on Denholmhill Blossom by Marmarides, and Farmer's Belle by Farmer's Counsel; Miller, on Bloom of Whitefield by Scotland's Kind. Mare, thre years (3): 1, Experimental Farms, on Lady Stanley
Baron Stanley; 2, Duff \& Son, on Rye Queen by RyeBaron Stanley; 2, Duff \& Son, Burndennette Barones by King's Purser. Mare, two years (6): 1, Batty, oill
Rose of the Maples by Loyal Hero; 2, Miller, on Hill crest Queen by Royal Cadet; 3, Duff $\&$ Son, on Golde Lady May by Golden Hero Lad; 5, Hassard, on Bell
Marathon by Marathon; 6, Baker, on Waverley Sun

Aower by Baron's Best. Mare, yearling (6): 1, Duff \& on Myrtle Grove by The Count of Hillcrest; 3 , Smith \&ichardson, on Lady Maryfield by Knight of Maryfield; 4. Hcgg, on Royalette's Keepsake by Denholmhill
David; 5 and 6, Rothwell, on Bonnie Heather and David; 5 and 6, Rothwell, on Bonnie Heather and
Flower Girl by Dunnottar. Mare, foal: 1, Hogg, on Denholmhill Maud. Three, the get of sire, two years and under: 1, Rothwell, on get of Dunnottar; 2, Smith Bros., on Baron Gregor. Two, produce of mare two vears and under: 1, Rothwell; 2, Experimental Farms;
3, Hogg. Champion stallion: Smith \& Richardson, on
The Select. Champion mare: Rothwell, Daw.
Canadian-bred Clydesdales.- The quality and was the subject of much comment from the ring-side. The entries in
the various classes showed that it is possible to raise as high quality Clydesdales in Canada as can be grown in the Old Land. It is possibly the first show where the grand
bred.
In the aged-stallion class there were seven entries, ribbon. He is a toppy horse with good quality of body and under-pinning, and moves true and snappy. His feet and legs are about al that Clydesdale men desire, both in size and quality. Eastfield Charles, a stylish
colt, moved into second place. He, too, has size quality and true springy action. There is scarcely he has the quality right to the ground. Colonel Bowers, in fourth place, is a thick, well-ribbed horse lass showed marked uniformity of type and con formation. There was a right good lot of three-yearolds brought out. Lawrie Kitchener, a deep, thick,
vell-coupled, trappy colt, moved up to first place He has well-shaped hocks and carries them well when noving. Royal Marathon, in second place, is a big himself up well. He was a close contestant for first place. Royal of Denholmhill, a neatly-turned, clean colt that moves

The two-year-old class brought out a rosy lot the owners of the horses which got in the money might well be proud of their winnings. After winnowing the class, the judges picked on Bonnie Bydand, a well muscled and has deep, broad feet, with beautiful ankles He might be faulted for not showing quite enough character in his head and neck; also, he did not have as much scale as some of his competitors. However, he was later made champion, and when the highest awards of the show were being contested for, he secured
the grand championship ribbon. March Past, a son o Dunnottar, is of the fashionable draft type and showed a little more character than did thie winner. He was also able to show the steel when trotting down the
ring. He flexes his knees well and travelled true behind Richardson's Model, in third place, is a smooth behind turned colt with quality throughout. In fact, the placings of the first three horses might have been re versed without much criticism. Baron Dalmar, a place. Some of the remainly well, moved into fourth some did not use their hocks as they should have, while few were somewhat plain compared with the company they were in. Only eight horses were placed, leaving does'not indicate, by any means that a ribbon. This orses. Gartley Herminius, in the yearling class, porked his way to the top. He. is a coming individual with his Mowat, in second place, in a toppy, well-built horse. Blend ased-mare lass was nine strong. Favorit Blend was soon picked to lead the class. She is a beautibined with the quality that Clydesdale men like to see She was considered good enough to win the grand
championship. Beside her stood Silver Lass, a flashy mare, well ribbed up and with quality to the ground same build as the two mares placed above her, but she travelled a little wider behind and did not pick her front feet up quite so snappy. The three-year-old class well-built mare of good drafty type, and with quality throughout, was placed first, with Nancy Willing, little too wide, in second place. There were seven two-
year-olds, and the honors went to Queen Seal, a large, mooth, attractive mare, in which it was hard to pick breedy, stylish, clean, flinty-boned mare, with extra hocks a little too wide. Ten yearlings made very keen competition. Finatly, it narrowed down to ceat The
Princess and Queen o' Beauty for first place. Ther
former has a beautiful body and travels nicely, although she might be of more value had she a deeper body
Her quality and action put her into first place Exhibitors.-T. H. Hassard, Markham; Jas. Bovaird, Ingmpton; S. Kissock, Oro Station; W. © Baile
Inglewood; Smith \& Richardson, Columbus; Brando
Bros, Forest: ymaway $\max ^{2}$ rat
orth; Frank Crewson, Arthur; Goodfellow Bros, Todmorden: Henry Snyder Clinton; B. Rothwell Ottawa; City Dairy Farm, New Lowell; H. I. Barn hardt, Oro Station; F. J. Wilsor, Rothsay; Hugh McLean, Wyoming; Geo. M. Anderson, Guelp, Thed ord John Gildner Kitchene King; J. J. Castator, Woodbridge; A. \& J. Broadfoot Kincardine; Geo. C. Burt, Hillsburg; Geo. Miller Caledonia; Jno. A. Boag \& Son, Queensville; T. Sco Jarvis, Milton; Jas. A. Brander, Elora; Allan Fried
New Dundee; Robt. Tuck \& Son, Eden Mills; Alex Nichol, Hagersville; Wm. \& Chas. Sutherland, Brigh W. Geo. Ormiston, Burketon; Norman Dryden, Gal Walter, Gowanstown; W. .F. Batty, Brooklin; Gunne Dosser, Jarvis; Geo. Davidson \& Son, Cherrywood; W Roach, Chetrywood; Wm. J. Johnston, Bradford; W Chester, Hespeler; Jas. Ford \& Son, Fergus.
Awards.-Stallion, aged (7): 1, Hassard, on Pride Charles by Baron's Best: 3, Smith \& Richardson, on Royal Montrave by Montrave Imperialist; 4, McMichael \& Son, on Colonel Bowers by Pacific; 5 , Bailey, on
Royal Graham by Royal Brunstance; 6, Kissock, on Royal Graham by Royal Brunstance; 6, Kissock, on
Baron Mac by Baron Gartley; 7, Bovaird, on Great Times by Better Times. Stallion, three years (9): 1 Torrance, on Lawrie Kitchener by Lord Lawrie; ${ }^{2}$ Hassard, on Royal Marathon by Marathon; 3, Mc Michael, on Royal of Denholmhill by Dunure Frie Bebee, on Teddy Roosevelt by President Roosevelt;
Cowieson \& Son, on Baron Fullarton by Clarion; Luin, on Bonnie Prince Charlie by Dalrioch Prince on, two years, (20): 1, Pellatt, on Bonnie Bydand by Bydand; 2, Rothwell, on March Past by Dunnottar; 3, on Baron Dalmar by Dalziel 5, Brandon Bros, on Prince Herminius by Herminius; 6, Nott, on Golden Guinea by Guinea Gold; 7, Smith \& Richardson, on
Lord Maryfield by Knight of Maryfield; 8, Hassard, on Lord Maryfield by Knight of Maryfield; 8, Hassard, on Gartley; 2 and 6 , Miller, on General Mowat by Kinpurni and Charming Grandee by Grandee's First; 3, Duff \& Son, on Mendel Fairview by Mendel Prince; 4,
Semple, on Silver City by Jake of Fairfield; 5, BroadBaron Har Willing by Maron Hope by Merry Baron. Stallion, foal (6): Baron Favorite and Master Baron; 4, Jarvis, on Baron
Purnie; 5, Bater Bros., on Lovely Looks; 6, Rogerson, Purnie; ; , Bater Bros., on Lovely Looks; 6, Rogerson,
on Baron Ronald. Maren Ronald
Blend by Burgie Favorite, and Fairview Darling by Blend by Burgie Favorite, and Fairview Darling by
Gallant Carruchan; 2, Nichol, on Silver Lass by Com-
modore; 3, Brander, on Molly of Burreldells by King's modore; 3, Brander, on Molly of Burreldells by King 6, Tuck \& Son, on Queen Maud by King's Seal; ; 7, years (6): 1 , Ormiston, on Nell Ivory by Black Ivory: Dryden, on Lady Nancy Willing by Black o' Clay; 3, Wapukum by Prince Expectant; 5, Tuck \& Son, on Byron by Millcraig Knight. Mare, two years (7): 1
Halls, on Oueen Seal by King Seal.' 2 Duff $\&$ Son Flora Lansdowne; 3, Walter, on Lucy Broughan by Prince of Broughan; 4, Hassard, on Lady Marathon b national; 6, Telfer, on Heather Bloom by Lord Thomas Mare, yearling (10): 1, Batty, on Heather Princess by Dunnottar; 3, Rose, on Royal Lady by Royal Baron crest; 5 , Sutherland, on Miss Buchlyvie by King Saxons 6, Brandon, on Burreldells Ruby by Lord Charming; Johnston, on Sheila of Helmsville by Touchstone; 8 ,
Jarvis, on Cloverrill Maid by Kinpurnie. Mare, foal Ford, on Model Annie. Three, get of sire: 1, Hassard,
on get of The Count of Hillcrest; 2, McMichael, on
International. Two, the progeny of mare: 1, Miller 2, Duff. Champion and grand champion stallion Pellat, on Bonnie Bydand. Champion and grand
champion mare: Duff \& Son, on Favorite Blend. The Walker House trophy, the Bright special and the
Clydesdale Association specials went to the grand Canadian-bred Draft Horses.-Under this classification a number of right good mares and geldings were were particularly well brought out. Arthur; J. Baker, Bright; G. S. Cochrane, Burketon
J. Pope, Clinton; A. Turnbull, Galt, A. Creyke, Totten-
ham; D. Fotheringham, Brucefield A A Sinclair Finpen S. Kissock, Oro Station; L. C. Vincent, Ayr; J. Kidd,
Tiverton; G. W. Dow, Exeter; A. B. McPhail Gat Iiverton; G. W. Dow, Exeter; A. B. McPhail, Galt
W. J. Wison, Erin.
Awards.-Gelding or mare foaled in 1917. Awards-Gelding or mare foaled in 1917: 1, Crew-
son; 2, Cochrane; 3, Baker; 4, Pope; 5, Gurney (icld.
ing or mare foaled in 1916: 1, Creyke; 2, Turnbull. ng or mare foaled in 1916:1, Creyke; 2, Turnbull.
Gelding or mare foaled previous to 1916: 1 , Vincent;
2, Dow; 3, Wilson; 4 and 5, Crewson; 6, Sinclair: and 8 , Fotheringham. Teams in harness, 1,600 lbs. of
under: 1 , Vincent; 2 , Fotheringham; 3, MePhal: 4 ,
Turnbull. Team in harness, over 1,600 , Ns, under: 1, Vincent; 2, Fotheringham; 3, M.Phail;
Turnbull. Team in harness, over 1,600 Ihs. each:
Crewson; 2, Sinclair; 3, Dow.

The entries were more numerous thàn at past shows and the quality was good. Breeders have not as yet dales, but judging by the entries brought out, qualit Ten aged stallio
hen aged stallions confronted the judge, and all the judge awarded the red ribbon to Monogram, the entry from Hassard's stable. This horse stranger to show-ring visitors. His stylish,
body attracts attention. He is heavily muscle
body attracts attention. He is heavily muscled, shows Next Napolitian, shown by Lafayette Stock Farm. This is an attractive horse that picks his feet up well, but went a little too wide in the ring. Hannibal, another big grey, and an extra good mover, in fourth. All these horses had springy pasterns and deep hoofs, although some were none too large. Two flashy greys appeared in the two-year-old class. They are typey, drafty,
quality horses. Shawnee Prospen topped the class, but quality horses. Shawnee Prospen topped the class, bu
was outclassed for the championship by Monogram The first three placings in the aged-mare class wen to Lafayette Stock Farms. They are a flashy trio with draft conformation, good under-pinning and deep, fairly broad feet. There were several mares of merit
in this class that did not get into the money. Nine two-year-olds possibly made the strongest class of the went to the While she has all kinds of qualit and moved well in the ring, she has scarcely the scale of some of her competitors. Beatrice, a big blark in second place, is a beautiful-bodied mare, but is none little too at a little too much in trotting. B
dark grey mare in third place.

Exhibitors.-Lafayette Stock Farms, London; R. H. Livingston, Woodbridte; Haas Bros, Paris; T. S. McMichael, Seaforth; J. M. Barnhardt, Oro Station Sir H. M. Pellatt,
Bater Bros., Oakville.

Awards.-Stallion, aged (10): 1, Hassard, on Mono gram by Inedet; 2, 3, 4 and 5, Lafayette Stock Farm, by Islam, and Konsecutif by Konsecutif; 6, Haas, on Junior by Albertus; 7, Livingston, on Dandy by Honest Graymont by Issachaer. Stallion the Stock Farms, on McMillan, on Shawnee by Prospero; 2, Pellatt, on Jasman by Jasmine; 3, Bater Bros., on Gibralter by Madagascar. Stallion foaled on or after January 1, 1918 (4): 1, Shantz, on Honest Lad by Mars; 2, Haas, on Sliver Prince by Junior; 3, Livingston, Madagascar.
Boy by Jet; 4, Bater Bros., on Republic by Mad Mare, aged (6):12 and 3, Lafayette Stock Farms, on Belle by Heros; Mildred by Billie Hanes, and Susie by Matiko; 4, Shantz, on Myrtle by Hymenal. Mare, on Lady Mabel by Junior 1 , 1917 (9)., Haas Bros on Beatrice by Koumis; 3, Bater Bros., on The Marn by Madagascar; 4, Barnhardt, on Marie by Lenoir. produce of mare: 1, Bater Bros.; 2, Haas Bros. Cham pion stallion: Hassard, on Monogram. Champion Shires.-Although Shires are popular in England, where they bring big prices and are in demand, they do not make a very large showing in Canada. At Guelph of Weston, had the first-prize aged stallion in Croton Forest King by King Junior. In second place stood D. H. Bennett \& Sons, of Freeman, showed Lady Viola in the mare class.
Belgians.-This breed is comparatively new in breed are to be seen at most shows. Five stallions Farms had first and fifth in Hercule and Major. Second third and fourth placings went to C. W. Gurney, of Paris, on Boulder Grange Du Fosteau, Ameront and Boulder Grange Eman.

## Light Horses.

The judging of light horses was done in the evenings. and this proved a special attraction to city folk as well Thoroughbred put through its paces, and those who were present Were not disappointed in the performance
staged. Some of the classes have been better filled on previous occasions, but never was the workout more Hacrer the interest of the crowd keener Hackneys.-Exhibitors.-J. Tilt, Brampton; Crow
\& Murray, Toronto; S. Ballantyne, Quarries; J. Telfer, Milton West; R.G. Chester, Hespeler; G. Rogerson, Awards.-Stallion, aged: 1, Crow \& Murray, on
Warwick Model; 2, Tilt, on Spartan; 3, Ballantyne,
on Harry Lauder. Stallion, foaled in 1916: 1, Telfer, King Spartan; 2, Crow \& Murray, on Waverley MerryKing Spartan; 2, Crow \& Murray, on Waverley Merry-
legg. Stallion, foaled on or after January 1, 1918: 1 and 2, Tilt, on Spartan Laddie and General Spartan. Mare, foaled previously to January 1, 1917: 1 and 3 ,
Crow \& Murray, on Dunhill Wild Rose and Princess
Patricia; 2 and 6 , Telfer, on Pauline and Princess Cudora; 4, Tilt, on Deifer, on Pauline and Spartan; 5, Chester, on
Lnshion Sadie Model. Stallion, foaled on or after Mashion Sadie Model. Stallion, foàled on or after
lanuary 1, 1917:1, Castator, on Spartan Queen. Three,
nare: Crow \& Múrray, on Dunhill Wild Rose. Cham-Standard-Breds. - Exhibitors. - T. H. Hassard Markham; Crow \& Murray, Toronto; ; C. H. Binions, Malton; D. Douglas \& Sons, Mitchell; G. A. Cameron, Alton; R. Wallace, Acton; Cruickston Stock Farm, Wigglesworth, Georgetown.
Wwards.-Stallion, aged: 1 and 4, Crow \& Murray,
Aurt Axworthy and Billie McKerron; 2, Hassard on on Burt Axworthy and Billie McKerron; 2, Hassard, on Peter Wilton; 3, Cruickston Stock Farms, on Jim Todd
5 and 6 , Binions, on Mike McKerron, and Oradell. 5 and 6, Binions, on Mike Mckerron, a Flashligh Stallion, foaled in 1917: Cameron, on Spier Peter Stalion, foaled on or after January 1, 1918: 1 and 2,
Cruickston Stock Farm, on Fletcher Todd, and Van Todd: 3, Wallace, ōn Ganot. Mare, aged: Cruickston Stock Farms, on Vanity 1, Cruickston Stock Farm, on atter January'1, 1917: 1, Cruickston Stock Farm, on on Evangeline; 4, Fuller, on Hazel Hall. Three, get on Eva
of sire
Farm.
THor
Thoroughbreds.-Exhibitors.-Crow \& Murray,
Toronto; E. B. Clancey, Guelph; J. Bovaird, Brampton Toronto; E. B. Clancey, Guelph; A . Bovairds. Stallion, aged: 1 and 2, Clancey, on Spey Pearl and Charlie Gilbert; 3, Crow \& Murray, on Ben Hodder. Stallion, foaled on or after January 1, 1918 Clancey, on Bryan. Mare, foaled on or before January Sain; 3, Bater Bros., on Mother. Mare, foaled on o Sain; 3, Bater Bros., on Mother. Mare, foaled on or
after January 1, 1917: 1, Clancey, on Oriental Pearl; 2; Bovaird. Three, get of sire: Bovaird.
Ponies.-Exhibitors.-J. F. Husband, Rockwood;
Hastings Bros., Guelph; H. J. Miller, Keene; J. B. Hastings Bros., Guelp.
Cowieson, Queensville.
Awards. Hackney stallion, any age: 1, Hastings Bros, on Whitegate Pimple; 2, Husband, on Whitegate Smile. Hackney mare, any age: Husband, on Brookfield Belle. Shetland stallion: Hastings Bros., on Rattler. Shetland mare: Hast
mare: 1, Cowieson; 2, Hastings Bros.
their debut in show-ring cirlces, and their success should that may be developed into show-ring winners or doing a good work for the live-stock industry and the SHortro whole

SHORTHORNS.-In the Shorthorn classes were numas the breeder's standpoint. The the block, as well keenly contested than in the past, while the breeding
classes brought out a wealth of progeny of Browndale, Sea Gem's Pride and Sultan's progeny of Browndale, Sea Gem's. Pride and Sultan's to the value of good sires. The awards were placed by

The cattle showing was started with the senior yearling steers, A trio of fair bullocks contested for the prizes. A quartette of junior yearlings created a Hillcrest Lad, the 1918 champion, in the brought out that the honor would be repeated. While he was a right good individual, he was in too strong company to go above second place. The steer has done rea big, deep, thick animal with a great depth of flesh The fleshing, however, was scarcely as even as on Barr's Snowball, a big steer with good lines, smooth body and evenly fleshed, although he was probably of no better type than his closest competitor. The white steer was
later made champion, but was outclassed when it came to the highest honors of the show. A bunch of fourteen steers under one year next came before the judge. While there were several entries lacking in finish there was a smaller percentage of culls than appeared in the class of similar age at Chicago. Roan Star, a thick,
mossy-coated roan was picked for first place. He was a breedy calf with good lines and deeply fleshed. There wasn't a bare spot on his body, and the thickness was carried from shoulder to quarters. Billy, another roan shown by K . Henderson, of Guelph, was second. This was a particularly smooth, well-finished bullock.
There were only two entries in the senior yearling
a good top. Thick, soggy quality calves characterized
the class down to the eighth or ninth place, where there the class down to the eighth or ninth place, where there
was a couple that were outclassed. The bulls were not so good a lot as the heifers.
While there were several in each class that had the character, conformation and quality to warrant them a place at the head of a good herd, there were others
that would have made better steers than herd headers at least there would be less risk to the breed Ivanhoe a roan junior yearling, led a class of six and was made champion. He is rather a stylish individual, with wellarched, deep ribs, and good lines. He might be a little second pace is acks and pins. Master Marquis, in second place, is a breedy, thick, white bull with a good with the winner. Baron Butterfly, a red calf, in third place, had as good a head as any, and has a straight lined, deep, thick body behind it. Agusta Supreme was
the outstanding bull in the senior-calf class. His deep the outstanding bull in the senior-calf class. His deep,
thick, straight-lined body and breedy head caught the eye of many. Quality is sticking out all over him Sultan's Perfection, a red in second place, is no mean calf. He is a breedy, quality youngster. Some of the other entries had bad heads or were too cut up behind second in a large class at Chicago, was entered fo Guelph. The judging of the class was delayed a day in order that this calf might compete. However through poor connections the calf did not arrive in
time to take his place in the ring. This left a cleare time to take his place in the ring. white calf which eventually won the class.
Exhibitors.-W. A. Douglas \& Son, Caledonia; Barr, Blyth; J. K. Campbell \& Soh, Palmerston; Geo
Amos \& Sons, Moffat; A. Lerch, Prestort T: A. Rusell Downsview; A. Hall, Ayr; K. Henderson, Guelph D. S. Ferguson \& Son, Galt; P. Stewart, Guelph; Jas
Douglas, Caledonia; J. White \& Sons, St. Mary's; Douglas, Caledonia; J. White \& Sons, St. Mary's; Son, Rockwood; Gerrie Bros, Elora J. M. Gardhouse
Weston; $W \mathrm{~m}$. Robertson, Guelph; John Gardhouse

## Beef Cattle.

Those privileged to follow the judging of the difIerent beef classes at the Ontario Provincial Winter Fair
will long retain a recollection of the excellency of the will long retain a recollection of the excellency been stronger in the past, but, considering the entire exhibit,
the classes were never so well fitted with such highthe classes were never so well fitted with such high
quality stock. In fact, there were fewer culls or tailquality stock. In fact, there were fewer cull or the
enders shown than were seen at Chicago the week preenders shown than were seen at Chicago the werk pree
vious. In the fat classes were bullocks of the thre bee breds that showed breeding and that were highly fitted and ripe for the block. In the breeding classes were
both males and females, rich in the blood of noted ancestors, showing breed character and carrying a weffered libera -i ghe inovation brought out classes of from twelve to fifteen entries of prime stuff weighing over 1,350 pounds, from 1,200 to 1,300 and from 1,000 to 1,200 pounds. It showed that Canadian feeders were capable of raising and feeding steers of export calibre. A pleasant
of the show was having J. J. Cridlan, of England place the grand championship award. The honors fell upon the breedy, smooth, thick-bodied, deep-fleshed, mossy coated roan shown by Lesilie Gardhouse, of Weston Septenter. When he came forward in a class of fifteen september. When he came forward in a class son and was made champion of the grades and crosses. He appeared again in the Inter-County Baby Beef Contest,
and won first in a class of twelve. Yet again this ron beauty appeared at the top of a strong class of finished
steers in the Gover from 1,000 to 1,200 pounds. This calf of show-ring renown was dropped on September 12,1918 , and at
the time of the show he weighed 1120 pounds While the time of the show he weighed 1,12 pounds. While
professional stocken were out with very creditable
entries there were many feeders and breeders making

Roan Jasper.



Lavender 47
heifer class, but they were a pair of breedy, typey ndividuals. shown P. Stewart. She is a heifer with grea sth, shown by P. Stewart. Showing a little roughness. Diamond Queen, Douglas' entry, was of higher quality but appeared to disadvantage in the ring lining to led by Jubilee Gilt foot. Eight junior yearlings were led by Jig white daughter of Browndale. She is a swee heifer with that deep, thick body carrying a load of flesh. She was the fleshiest in the class, but unfor tunately there was a slight tendency to roughness There is a good deal of character anampionship ribbon, She was but one of a very strong class. Oak Duchess of Connaught, shown by White \& Sons, of St. Mary's was second. She is a deep, sappy heifer, smooth as an apple and with beautiful lines, but is not as thick aod Jealousy Ot from Kyle Bros.' herd. She combines Jealousy 9th, from Kyle Bros. herd. The roan coat set off her qualities. Amos \& Son had a breedy, quality, white heifer in fourth. This heifer has a good front and is proportionatel
thick as the winner
thick as the Ten senior calves competed for eight places. Miss Browndale, shown by Gerrie Bros., was the winner of
the red ribbon. She is a straight, deep, thick, sappy roan heifer carrying her thickness to the quarters. Pride 5th, another Browndale calf, was second. She also has thickness, style and finish, but at as her halfthe show was scarcely as thick throughout as her half quality, and is thicker than Fairy Queen 8th, the roan which stood next to her. The latter has a tendency
to droop at the tail-head. The entire class showed to droop and good quality. Eleven junior calves were led by Maid of the Mist, a thick bodied, evenly-fleshed heifer. Next to her stood Jubilee Jit 2nd, another

Sons, Weston; D. McKinnon, Rockwood; C. M. Blyth, Guelph; Geo. D. Fletcher, Erin; A. Creyke, Tottenham; G. W. Haas \& Sons, Paris; W. A. Lasby \& Son,
Rockwood; Hastings Bros., Guelph; G. A. Attridge, Rockwood; Hastings Bros., Guelph; G. A. Attridge
Muirkirk; G. B. Armstrong, Teeswater. Awards.-Steer, senior yearling (3): 1, Brown; $2_{i}$ Douglas; 3, Graham. Steer, junior yearling (4): 1 , Barr; 2, Campbell; 3; Amos; 4, Brown. Steer under one year (14): 1, Douglas; 2, Henderson; ${ }^{\text {R }}$, Lerch; 4,
Russell; 5 , Campell; 6, Brown; 7, Amos:
, Fercuson. Russell; 5, Campolil; 6, Brown; 7, Amos; 8, Ferguson,
Heifer, senior yearling (2): 1, Stewart, on Merry Mildred Heifer, senior yearling (2):1, Stewart, on Merry Midared
4th; 2, Douglas, on Diamond Oueen. Heifer, junior yearling (8): 1 , Douglas, on Jubilee Jilt; 2 , White, on yearing Duchess of Connaught; 3 and 5, Kyle Bros., on
Jealousy 9th and Canadian Duchess of Gloster K. Jealousy 9th and Canadian Duchess of Gloster K.:
4 and 6, Amos, on Pleasant Valley Music and Laurel 4 and 6, Amos, on Pleasant Valley Music and Laurel
Tulip; 7 , Campbell, on Gainsay; 8 , Lerch, on Matchless Tulip; 7, Campber, on Gainsay; 8, Lerch, on Matentes Princess. Heiter, 2 and 7 , Douglas, on Pride 5 th and Monning Blossom 4th; 3, J. M. Gardhouse, on Marquis Mildred
Kyle Bros., on Fairy Oueen 8th; 5, Russell, on May Kyle Bros., on Fairy Queen 8th; 5, Russell, on May-
flower of Homestead; 6 and 8, Amos, on Roan Lady 28 flower of Homestead; 6 and 8 , Amos, on Roan Lady 28
and Merry Lass 16th. Heifer, junior calf (11): 1 Gardhouse, on Maid of the Mist; 2, Douglas, on Jubilee Jilt 2nd; 3, Blyth, on Blythewood Village Girl; 4, Fletcher, on Lady Gainford; 5, Creyke, on Roan Lady
6, Campbell, on Aggie 9th; 7, Amos, on Merry Tulip 6, Campbell, on Aggie 9 th; 7 , Amos, on M
8, Kyle Bros., on Strawberry Blossom 3rd.
8, Kyull, junior yearling (6): 1 and 5 , Kyle Bros, on Ivanhoe and Golden Chief; 2, Fletcher, on Master Marquis; 3, Russell, on Baron Butterfly; ${ }^{4,}$ Lasby, on
Crimson Supreme; 6, Hass, on Royal Knight. Bull Crimson Salf (6): 1, Amos, on Agusta Supreme; 2, Gardhouse, on Sultan's Perfection; 3, Robertson, on Mildred Chief; 4, Attridge, on Thorham Victor; 5, Kyle Bros., on Missie's Lad; 6, Hastings Bros., on Tornham Prince
Bull, junior calf: 1 and 4, Gardhouse, on Royal MasterBull, junior calf: 1 and 4, Gardhouse, on Royal Masterpiece and Sultan's Renown; 2, Blyth, on Master Coral;
3, Campbell, on Perfection's Heir ; 5, Russell, on Rosalie's

Prihce; 6, Douglas, on Browndale Courtier; 7, Lasby, on Crimson Triumph; 8 , Kyle Bros., on Spring Valley Champion bull, Kyle Bros., on Ivanhoe. Three, get Bros. sine: 1 and 5 , Dem's Prideglas, 3 , Gardhouse, on Sultan's
Ond Choict: 1, Amos, on Newton Grand Champion. Two
 Douglas; 2, Kyle Bros.; 3, Amos.
HEREFORDS.-The whiteraces surpassed any prequality of the stuff brought out, as well as to the size out with their string of high-quality senior and junior yearlings and calves. The uniformity of conformation yearlings and calves. The shity of the stuff shown from this herd is remarkable. J. Page of Wallacetown, was out with
some of his good things. ONeil Bros, of Denield, had winning heifer
In the senior yearling class Hooper took both the red and blue ribbons, and later secured the championship on his winning heiler Ruby Fairfax. She is a deep, In the iumior close it wes a Lorna Fairfax 2nd and Hooper's Vera Fairfax. Both are sweet heifers with great thickness and splendid lines. In this class of nine were several real toppers that were certainly a good advertisement for the breed.
mel's Chance, from O'Neil's herd, was first in the junior yearling bull class. He is an extra good individual with a strong top, and particularly well developed in the hinid, quaters. Smoothness, finish and quality charac-
terized the class of six senior bull calves. Hooper terized the class of six senior bull calves. Hooper The calves were thick deep-bodied youngsters. Jose Fairfaz, the wimner of the funior class, has great conformation, with a good deal of quality and character Grove Donald in third was a sappy, nice quality calf and W. H. Blaght-out calf in fourth place
Awards.-Heifer, junior yearling (4): 1 and
oper \& Sons, on Ruby Fairfax and Hattie: 3 and Page, on Vera of Kingsville, and Miss Brae Real 21st. Heifer calf (9): 1, Currah, on Lorna Fairfax; 2 and 3
Hooper \& Sons, on Vera Fairfax, and Minnie Fairfax 4 , 0 NTeil Bros, on Queen Donald; 5, Page, on Mis Brae Real 25 th. Bull -junior yearling: 1 and ${ }^{\text {Ben }}$, Bull, eenior calf (6): $1,2,3$ and 4 , Hooper \& Sons, on Roy
Fairfax, Andy Fairfax, Andrew Fairfax, and Hardy Fairfax, Andy' Fairfax, Andrew Fairfax, and Hardy cail (6); 1 and 2 , Hooper Bros, on Jose Fairfax, and
Richard Fairfax; 3 , $\mathbf{O}$ 'Neil, on Grove Donald; 4, Black on Prince Donald; 5, H. J. Hales, on Jack Frost. Three
animals, get of one sire: 1,2 and 4, Hooper; ; 3 , Page animals, get of one sire:
Two animals, progeny
herd: 1 , Hooper 2
AbERDEEN-ANGUS. - The Doddies were not behind the other beef breeds from a standpoint of quality and finish. There were entries from most of the prominen
herds in the Province, Some of the animals had ap peared on other occasions, while others were makin
their first appearance in the show-ring These shiny cattle, with their usually straight lines and deep, thick, low-set bodies, command attention. In the two year-old heifer class there were five competitors. F. Rosebud 29 th went to the top. She is a smooth, tidy Mor dropping slightly between the hook and pin bones greater scale than the winner, and is particularly good in front. She carries her thickness well back, but is
shade high at the tail head. In third place was a tidy sheifer with scarcely the quality of the two placed above. In a class of nine yearlings, G. C. Channon captured the first place and championship on Tiptop Lass of Shamrock, a high-quality heifer with a great deal of character.
There is great spread and depth of rib, and she is as straight as a line. A stablemate, Stumpie of Larkin place. She is a sweet heif as the winner. Bowman had a very thick, low-se blocky heifer in second place, while Lowe \& Heibein had two growthy, well-proportioned heifers in fourth
and fifth places. Both had straight lines and showed a great deal of quality. In the class for heifers under
one year there were thirteen competitors. There marked uniformity of type and conformation through sappy calf that had extra good lines was placed frst, with Alloway Tro Edward in second place. There were only three junior yearling bulls. It was not a par-
ticularly strong class, although all three entries were of good herd-header material. The champion male was
Middlebrook Prince 18 th, a beautiful calf shown by Lowe \& Heibein.

## Exibein, Elora; J. Je. Bo. Bowant, \& Son, Erin; Lowe \& Oakw; G. C. Channon,

 Elora; A., Fried, New Dundee; Robt. Mcwen, Whitelaw,Chas. McDougall, Guelph; J. W. Burt \& Sons, Hills-Awards.-Heifer, two years (5): 1 and 4, Bowman,
on E. P. Rosebud 29th, and E. P. Roselbud 31 l ; 2, Lowe \& Heibein, on Middlebrook Pride 2 slt, 3 and 5 ,
Davis \& Son, on Queen Floss of Glengore, and Queen Davis \& Son, on Queen Floss of Glengore, and Queen
F.sther of Glengore. Heifer, one year and under two
(9): 1 and ?, Channon, on Tiptop Lass of Shamnock, and
 $4=2=2=$
, McEwen, on Alloway Tro Edward; 3 and 5, Bow man, on E. P. Pride, and E. P. Emeline 3rd. Stee junior yearling (3): 1, Channon, on Heather Lad; McEwen, on Tro Pride of Alloway; 3 , Bowman, Heibein, on Middlebrook Prince 16th; 2, Burt, o Bull, junior calf $(4)$, 1 , Lowe \& Heibein, on Middle-
But brook Prince 18th; 2 and 3, Channon, on Rosebud' Hero and Laddie Bate. Three animals, get of one sire
1, Lowe \& Heibein; 2, Channon; 3, McEwen. Two 1, Lowe \& Heibein; 2, Channon; 3, McEwen. Two
the progeny of one cow: 1 and 2, Lowe \& Heibein; 3 McEwen. Breeders' herd: Lowe \& Heibein. Cham Champion bull: Lowe \& Heibein, on Middlebrook Prince 18th. Champion steer: Whitelaw, on Prides
Monarch. Champion Aberdeen-Angus animal of the Monarch. Champion Aberdeen--
Grades Aif ${ }^{\text {Crosses.--Keen interest }}$ is always taken in the showing of. ©he fat-steer classes. This year the classes were well filled and the animals were in
high fit, with the exception of a few that could easily high fit, with the exception of a few that could easily
have stood considerably more feed. T.A. Russell took first -place in the senior-yearling class on Sir Haig, a and had a deep thick, smooth body. He was par ticularly well fleshed, especially over the back and Ioin, and there was an absence of harshness or roughness in the fleshing. In a class of eleven junior yearlings,
Russell again went to the top on Clear the Way 3rd a thick, meaty heifer right for the block, but none too straight on the under-line. Black Hector, a big, straight, sappy, deep-fleshed Angus grade, carrying a
wealth of fleshing went into second place. There was a slight dip in his back and the fleshing on the ribs rolled a little. However, he appeared as though he class of fifteen senior calves was Roan Jasper, the champion steer at the Gyelph show. This is a par-
icularly sweet, breedy calf with all kinds of quality, and he was brought out in the pink of condition. He was as smooth as an apple and was meated to the hocks. This calf, which was a year old last September, weighed $1,120 \mathrm{lbs}$. and was made the champion of the show. In a class of thirteen junior calves there were and lacked finish
Exhibitors.-A. A. Armstrong, Fergus; Geo. Amos Lucknow; O. Williamson, Jarvis; J. Lerch, Preston, E. McMillan, Guelph D. Fergussell, Downsview; N. Currah, Bright; J. Hooper \& Sons, St. Mary's; Jno, Currie, Rockwood;Kyle Bros., Drumbo; E. A. Cochrane; Erin; A. Fried, New Dundee; G. A. Guthrie \& Son,
New Dundee; R. Watson, Teeswater; I. M. Gard howe, Weston; T. Henderson, Guelph; Peter Stuard,
houel
Guelph; H. Essery, Centrali. B Guelph; H. Essery, Centralia; B, Goudie, Guelph.
Awards.-Steer, senior yearling (5): 1, Russell; 2 Amos; 3,4 and 5 , Armstrong. Steer, junior yearling
(11): 1,4 and 6 , Russell; 2 , Whitelaw; 3 and 7 , Brown \& Son; 5, Ferguson; 8, Williamson; 9, McMillan; 10 Armstrong. Ster, senior calt (15): 1 , Gardhouse
Ferd 3, Guthrie; 4 , Kyle Bros.; 5 and 10 , Fried; 6 , junior calf (13): 1 , Brown; 2,6 and 7 , Guthrie $: 3$, Essery 4, Goudie; 5 , Henderson; 8, Stuart; 9 , Armstrong; 10
Williamson. Barren heifers: 1,3 and 4, Barber; ${ }_{2}$ Lerch
Inter-County Baby Beef Contest.-Awards:
Gardhouse: 2, Henderson; 3 , Lerch; 4 , Essery; 5, Henderson; 6, Douglas; 7, Currie.
Dominion Government Specials.-For the first time at Guelph the Dominion Government offered large classes. The steers were well finise bred. Awards.- Steers, 1,350 lbs. and over : 1, Russell; 2
Campbell; 3 , Amos; 4 , Brown $\&$ Son; 5 and 6, Arm strong, Steers, 1,200 to 1,350 Ibs.: 1 , Whitelaw; 2
Guthrie; 3, Amos; 4 , Ferguson; 5 , Armstrong; 6 , Brown

## Sheep.

There was a total of 524 entries in the sheep classs 8
at Guelph this year. It was one of the strongest show at Guelph this year. It was one of the strongest shows
that has been staged. The quality on the whole was
the best that has been that showed at Chicago were out at Guelph, but the placings at the latter show did not always correspond
with the former. In all classes of the different breeds competition was keen. In the wether classes the
entries were particularly well fitted, making the decisions rather difficult. In a class of eleven wethers sired by a ram of the long-wooled breed, E. Brien \&
Sons, of Ridgetown, were the winners on a Lincoln This entry won them the championship for long-wooled
wether. The champion short-wooled wether was an entry of Robt. McEwen's that was second at Chicago
This was a Southdown. The Ontario Sheep Breeders Cup was won by D. Ross MMTavish, of Shakeepers
on a pen of Leicesters, while J. Ri. Kelsey won the cup
for short-wools for short-wools on his' Shropshire. In the auction sale
of dressed carcasses, the light-weight carcasses sold at around 23 cents per pound, and the carcasses sold at
from 15 to 19 cents per pound. Corswoubs. Extibitors.-J. J. Fuller, Chelten-
ham; G. H. Mark \& Son, Little Britain; E. Brien \& ham; G. H. Mark \& Son, Litttle Britain; E. Brien
Sons, Ridgeton; Shutleworth Bros., Maidstone. Sons, Radgetown; Shuttleworth Bros,, Maidstone.
Awards.- Shearling ewe: 13 and 6, Brien; 2 and 7
 onc year: 1 and 5, Brien; 2 and 8, Mark; 3,4 and 6 ,
Fille. Three ewes under one year: 1 , Brien; 2 and 4 ,
Fulier 3 , Marke. Wether under one year: 1,4 and 6 ,
Mark; 2 and 7 Fulleer: 35 and 8 ,
under one year: 1, Mark; 2, Fuller; 3, Brien. Ràm 6, Shuttleworth. Cotswold pen, O. S. B. Speciall. 1
Brien 2, Mark; 3 , Fuller; 4, Shutteworth. Champioi Brien; 2, Mark; 3, Fuller;
ewe: Brien, on a shearling.

## Lincolns. - Exhibitors.

Ilderton; Cecil Stobbs, Leamington. Patrick \& Son Awards.-Shearling ewe: 1, 2, 3, 4 and 5 , Patrick Ewe under one year: 1, 2, 3,7 and 8 , Patrick; 4,5 and 6, Edwards. Three ewes under one year: 1 and 3
Patrick; 2, Edwards; 4, Stobbs. Wether under one year: Patrick. Ram under one year: 1, 2, 5 and 6 Patrick; 3 and 4, Edwards.. Pen, O.S. B. Special Patrick. Champion ewe:Patrick, on a shearling.
LEICESTERS.-Exhibitors.-Jno. Wright, Chesle A. \& W. Whitelaw, Guelph; D. Ross McTavish, Shake
speare; Shutteworth Bros, Maidstone; J. S. Cowan speare;

Awards.-Shearling ewe: 1 and 2, Whitelaw 3 and 5, McTavish; 4, Wright; $8 ;$ Shuttleworth. Ewe under one year: 1 and 4, McTavish; 2 and 7, Wright; 5 , White
law; 6 and 8 , Cowan. Three 1 and 5 , McTavish. 2 . Wright 3 , 3 , Cowan. 4 one year Wether under one year: 1, 2,3 and 5 McTais Whitelaw; ${ }^{6,}$ Armstrong. Three wethers under one
year: 1 , McTavish; 2 Whitelaw Ram under one year: $1,{ }^{\text {McTavish; }}$, 2 , Whitelaw. Ram under one
year: 1 and 5 , McTavish; 2 and 4, Whight. 3 Whitela year: 1 and 5, McTavish; 2 and 4, Wright; 3 , Whitelaw
Pen, O,S.B. Special: 1, McTavish; 2, Whitelaw; 3 Shuttleworth. Champion ewe: McTavish, on a lamb OxForDs, - Exhibitors.-Peter Arkell \& Sons, Tees Water; Peter Arkeu \& Co.,' Teeswa

Awards.-Shearling ewe: 1 and 2, Lee; 3, Arkell \& one year: 1 and 2, Arkell' $\&$ Sons: 3,4 and 7 Bearbour 5 , Lee; 6 and 8, Arkell \& Co. Three ewes under on year: 1 and 4 , Arkell \& Co; ; 2, Barbour ; 3, Lee. Wether under one year: 1, 4 and 5, Lee; 2 and 6 , Barbour; Arkell \& Sons. Three wethers under one year: 1 , Lee 1 and 3, Barbour; 2,4 and 6 , Lee; 5 , Arkell \& Co. Pen O.S.B. Special: 1 , Lee; 2 , Arkell \& Sons; 3 , Barbour;
4, Arkell \& Co. Champion ewe. Arkell \& Sins, on 4, Arkell \& Co. Champion ewe: Arkell \& Sons, on a lamb. Stropshires.-Exhibitors.-R. Young, Glanford; A.
Knox, Caledonia; J. R. Kelsey, Woodville. Hampto Knox, Caledonia; J. R. Kelsey, Woodville; Hampton
Bros., Fergus; G. T. Betzner, Copetown: A. McEwen, Bros., Fergus; G. T. Betzner, Copetow; A. McEwen,
Brantford; Geo. Allan, Brantford; Wright \& Son, Ganworth
Awards.-Shearling ewe 1 and 6, Kelsey; 2, Hampyear: 1 and 7 , Knox: 2 and 8 , Betzner. 3 wne under one 5 and 6, Allan. Three ewes under one year: 1, Knox; 2, Alla, ; , 3, Kelsey; 4, Betzner 5 , Young. Wether
under one vear: 1 and 5 , Kelsey; 2 and 3, Young; 4 , under one year: 1 and 's, Kelsey; 2 and 3 , Young; 4 , Kelsey; 2, Young; 3 , Allan; 4 , Knox; 5 , Wright. Champion ewe: Kelsey, on a shearling.
Knox, Caledonia; Hampton Bros., Fergus; Robt. McEwen, London; E. F. Rich, Burford. Bros.; 4, McEwen 5 5, Young'6, Rich 2 and 3, Hampton Bros. ; 4, McEwen; 5 , Young; 6 , Rich. Ewe under one
year: $1,4,5$ and 6 , McEwen 2 and 3 , Hampton Bros.; 7, Young; 8, Rich. Three ewes under one year: 1 , Wether under one year: 1,2 and '4, Young; 3 , Rich; 5, Knox; 6, McEwen. Three wethers under one year:

1. Young; 2, Rich; 3 , Knox; 4, McEwen; 5 , Hampton 1, Young; 2, Rich; 3, Knox; 4 , McEwen; 5 , Hampton
Bros. Ram under one year: 1 and 2 , Hampton Bros.; 3, 4 and 6 , McEwen; 5 , Know. Pen, $\mathbf{H} .5$. B, Special: 1, Hapton Bros.; ; , MCEwen;
Champion: Knox, on a shearling.
Champion: Knox, on a shearling
Dorser Horns -
W. D. Wright \& Son, Glan worth; Cecil Stobtss, Leamington; F. J. Phelan, Galt. A. Awards.-Shearling ewe: 1 , Robertson; 2, 3 and
4, Stobbs; 5 and 6 WWright. Ewe under one year:
$1,2,5,6$ and 8 , Stobbs; 3 and 4, Wright. Three ewes under one year!: 1 and 3, Stobbs; 2, Wright; 4, Phelan
Wether under one year: 1,5 and 6 , Wright; 2, Stobbs 3 and 4, Young. Three wethers under one year: 1 Robertson; 2, Wright ; 3 Stobbs. Ram under one year:
1 and 2 Stobbs; 3, Wright; 4, Phelan. Pen, O.S.B. Special: 1, Stobbs; 2, Wright. Champion ewe: Robert-
son, on a shearling. Telfer Bros., Paris. Awards.-Shearling ewe: 1 and 2, Telfer Bros.
3and 4, Wilson. Ewe under one year: $1,3,5,6$ and 7
Telfer Bros. 2 . 4 and 8 W:iconn Telfer Bros. 2,4 and 8 , Wilson. Three ewes under one
year: 1 , Teifer Bros.; 2, Wilson. Wether under one year: 1 , Telifer Bros; 2 , Wilson. Wether under one
year: $1,2,5$ and 6 , Wilson; 3 and 4 , Telfer Bros. Three wethers under one year: 1, Wilson; 2, Telfer. Ram
under one year: $1,3,4$ and 5 . Wilson:2, Telfer Bros. Pen, O. S. B. Special: 1 , Telfer Bros. ; 2, Wilson. Cham pion ewe: Telfer Bros., on a shearling.
Surfolks.-Exhibitors.-Hastings Bros., Guelph; Awa. Henderson, Guelph. Aws.-Shearling ewe: 1 and 3, Henderson; 2 and 4, Hastings Bros. Ewe under one year: 1 , 2 and 3 ,
Henderson; 4 , Hastings Bros. Three ewes under one year: 1 , Henderson. Wether under one year: 1,2 and 3 , Henderson. Three wethers under one year: Henderson.
Ram under one year: 1 and 3 , Henderson; 2 , Hastings ewe: Henderson, on a shearling GRaDEs or Crosses.- Wether, sired by ram of long-wooled breed: 1 and 5 , Brien \& Sons; 2 and 6 Mark; 3, McTavish; 4, Wright. Wether, under one
year: 1 , Whitelaw; 2, McTavish; 3 , Armstrong; 4 and 5 , Brien \& Sons. Three wethers, under one year:
Brien \& Sons; 2 , Whitelaw. Wethers, sired by a ram
of short-wooled. breed, sheolin.

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2. McEwen; 3, Hampton Bros. ; 4, Wright; 5, Knox; 6, 8 and 5 , Allan; 4, Young. Three wethers, under one year:ther lamb, under one year, pure-bred, grade or cross, short-wooled: 1, McEwen; 2, Young; 3 , Rich; 4 ,
Kelsey; 5, Robertson; 6, Allan; 7, Murdock. Wether Kelsey; 5 , Robertson; $\mathbf{6 ,}$, Allan; ${ }^{2}$, Mrade or cross, long. lamb, under one year, pure-bred, grade or cross, 10ng McTavish; 5 , Mark; 6 , Brien \& Son. Competitors for
 cup, short-wooled: 1, Kelsey; 2, McEwen; 3, Hampton 5 DrEssed Carcasses.-Cotswold lamb: 1, Fuler; 2
Mark; 3 and 4, Brien \& Sons. Lincoln lamb: 1. Patrick Mark; 3 and 4, Bricester lamb: 1 and 2, McTavish; 3, Wright; 4 Whitelaw; 5, Armstrong. Oxford lamb: 1 and 3 Barbour; 2, Lee. Shropshire lamb: 1 and 4, Wright Young; 3, Lerch; 5 , Knox.
Youngi 2, Kouthdown
2 Youngi 2, Knox; 1 , Hampton 2 , Wright; 3 ; and 4, Robert son; 5, Stobbs. Hampshire lamb: 1 and 2, Telfer Bros. 3, 4 and 5, Wilson. Suffolk lamb: Henderson. Long wooled grade lamb: 1, Brien \& Sons; 2, Whitelaw; Armstrong; 4 , McTavish. Short-wooted grade lamb Fuller; 4, J. Wright. Short-wooled shearling: 1 and 2 Robinson; 3 and 5 , Wright; 4, Young. Pure-bred, arade, or cross short-wooled lamb: MrEwen; 4, Murdock; 5, Armstrong; 6 , Telfer Bros. Pure-bred, grade or cross, long-wooled lamb: 1 5, Mark; 6, Brien \& Sons.
FLBECE Wool.-Domestic, fine, mediúm combing 1. McEwen; 2 and 6, Kelsey; 3, Mark; 4, Wright 1. and 7, A. Ayr. Medium combing: 1, Kelsey; 2, H.
Arkell; 3, Barbour; 4, Wright; 5, Armstrong; 6 Ayr,
Covedium combing: 1, Barbour; 2 and 3, H. Arkell 4, Armstrong; 5, Wright; 6 and 7, Ayr. Low combing: 1, and 2, Whitelaw; 3, J. Kelley; 4 and 5, Ayr; 6, J.
Wrioht. Coarse combing: 1, Mark; 2, Whitelaw; 3, Wright. Coarse combing: 1, Mark; 2, Whr
J. Wright; 4 and 5, Armstrong; 6 and 7 , Ayr.

Swine.

1. The space allotted to swine was filled to its capacity with extra high-quality stuff. There never was as good a Yorkshire show as was seen this year. In some and the quality was all that could be desired. Berkshites were out strong. In the dressed-carcass competition and the export bacon hogs there were as high as thirty-eight entries, which gives some idea of the
keenness of the competition. When the carcasses were keenness ouction they averaged around $221 / 2$ cents per sold by auction they averaged around $22 /$ cents per pound. The breeding stock in al It is understood that breeders found a good market for considerable of their stock.
Yor

Yorkshires.-Exhibitors.-J. Duck, Port Credit H. Capes, Wyoming; A. Stevenson, Listowel; C. K.
Jarvis, Milton; J. E. Brethour \& Nephews, Burford; J. K. Featherston, Streetsville; Wm. Tawse, Guelph . E. Currie, Guelph; J. Lerch, Preston
Awards.-Boar, under 6 months: 1 and 2, Jarvis 3 and 6, Brethour; 4 and 5, Stevenson; 7, Capes. Sow ston. Sow, 6 months and under 9:1 and 7, Duck 2,3 and 4, Brethour; 5 and 6, Featherston. Sow under 6 months: 1, 2 and 7, Brethour; 3 and 4, Duc 5, Jarvis; 6, Lerch. Three pigs of one litter: 1 and Barrow, under 6 months: 1 and 6 , Brethour; 2, Duck 3, Lerch; 4, Wilson; 5, Featherston. Champion saw 1, Brethour, on sow under 15 months.
Berkseires.-Exhibitors.-G. A. Dewar, Wyoming J. S. Cowan, Atwood; R. J. McEwen, Wyoming; G. I E. Brien \& Sons, Ridgetown; S. Dolson \& Son, Norva Awards.-Boar, under 6 months: 1, Smith; Dewar; 3, Brownridge; 4, McEwen; 5, Cowan;
Brien. Sow, under 15 months: 1,4 and 6 , Brownridge Brien. Sow, under 15 months: 1, 4 and 6, Brownridge;
2 and 5, Cowan; 3, Brien. Sow, 6 months and under 2 and 5 , Cowan; 3, Brien. Sow, 6 months and
$9: 1,2$ and 7 , Brownridge; 3 , Dewar; 4 , Brien; 5 and 6 , Cowan. Sow, under 6 months: 1 and 7 , Dewar; 2 and
Cond Three pigs of one litter: 1, McEwen; 2, Brownridge; 3, Dewar; 4, Dolson; 5, Brien; 6, Cowan. Barrow, under 6 months: 1, 2 and 4, McEwen; 3, Brien; 5 , Dewar.
Champion sow: Brownridge, on sow under 15 months. Champion sow: Brownridge, on sow. Douglas \& Son, Mitchell; S. Dolson \& Son, Norval.
Awards.-Boar, under 6 months: 1, Dolson; 2 and 3, Douglas. Sow, under 15 months: 1, Dolson; 2,3 and 4, Douglas. Sow, 6 months and under $9: 1,2,3$ and 6 , Douglas; 3 , Dolson. 4, Dolson. Three pigs of one litter: 1, 2 and 4, Douglas; 3, Dolson. Barrow, under 6 months 1, Dolson; $; 2,3$ and 4 , Douglas. Champion sow: Doug-
las, on sow 6 months and under 9 . Chester Whites.-Exhibitors.-W. E. Wright
Son, Glanworth; H. Capes, Wyoming; W. L. Hills, Son, Glanworth; H. Capes,
Wheatley. Awards.-Boar, under 6 months: 1 and 4, Capes;
2 and 3, Wright. Sow, under 15 months: 1 and 2
Wrid Wright. Sow, 6 months and under $9: 1$ and 5 , Hills 2,3 and 4 , Wright; 6, Capes. Sow, under 6 monhs,
1 and 6 , Wright; 2 and 3 , Hills; 4 and 5 , Capes. Thee pigs of one litter: 1,4 and 5 , Wright; 2 , Hills; 3 , Capes.
Barrow, under 6 months: 1 and 4, Wright; 2, Capes, 3 , Hills. Champion sow: Wright, on sow under 1 months.
ather Any Oure Breed--Boar, under 6 months:
1and 2, Stobbs. Sow, under 15 months: 1, Stobbs:

2 and 3, Robinson. Sow, 6 months and under 9:1, 4 1, 2 and 5 , Stobbs; 3 and 4, Robinson. Three pigs of under 6 months: 1 , Stoton; 2 and 3, Stobbs. Barrow, ow: Stobbs, on sow under 15 months
Export Bacon Hogs.-Awards: 1 and 5, Brethour; , Stevenson; 3 and 7, Featherston; 6, McEwen; 8 and Lerch; 10 and 13, Duck; 11, Hulet; 12, Silverthorn. Dressed Carcasses.-Awards: 1, Stevenson; 2 and
Murdock; 3 and 6 , Lerch; 4 and 9 , Featherston; 7 McEwen; 8 and 10, Lerch; 4 and 9 , Featherston; 7 Currie; 13, Dolson.
Butcher Hogs.-Awards: 1, Brien; 2, Dewar;
Brownridge; 4, Turnbull; 5, Dolson; 6, Robinson; McEwen. Dressed carcasses: 1, Brien; 2, Brownridge 3, Dewar; 4, McEwen; 5, Robinson; 6, Dolson; Hogs): 1 and 2, E. J. Lerch; 3 and 4, O. Lerch; 5, J. D Hogs):
Monk.

## Dairy Bull Classes.

There were thirty-six entries in the dairy bull classes this year as compared with thirty-eight in 1918 and
twenty-four in 1917. Sir Sylvia Alcartra, shown by

Results of the Dairy Test.

## holsteins.

Cows, 48 months and over:
1, Roxie Colantha Queen, Charles C. Best, Jarvis
1, Roxie Colantha Queen, Charles C. Best, Jarvis
2, Butter Girl Schuiling, A. E. Hulet, Norwich...................
3, Cornish Lodge Margaret Mercedes, Haley \& Lee, Spring-
4, Dord..... Kol Mechthilde, J. B. Hanmer, Norwich.
5. Lynderwood Colantha, W. J. Bailey, Jarvis.................

6, Oakhurst Buttergirl 3rd, W. C. Prouse, Tillsonburg.............
8, Lady Keyes Mercena, J. B. Hanmer.......................................... 12
Cow, 36 months and under 48
1, Lady Comet Ormsby, Jas. G。 Currie, Ingersoll
2, Cornelia Abbekerk De Kol, R. N. White...
4, Centre Mew Mary Abbekerk, Haley \& Lee..............i... 4, Princess Houwtje De Kol, Chas, N: Hilli
5, Belle Pietertje Lyons, J. J. Fox, Guelph.
6. Hilda Duchess, W J.
6, Hilda Duchess, W. J. Bailey....
7, Pontiac Ina Posch, A. E. Hulet.................................................... Anne Posch Houwtje, E. D. Hilliker, Burgessville.....
Heifer, 24 months and under 36:
1, Belle Abbekerk 2nd, J. B. Hanm
B. B. Cornucopia, Haley \& Lee

Bessie Caroline Fayne, H. W. Parkinson, Hagersville,
Lady Beets Korndyke, M. L. Haley \& Son, Springford.
6, Madam Vale Abbekerk, A. E. Hulet.....
7, Johanna Hengerveld Baroness, Fred E. Hilliker, Norwich.
, Bessie Walker Abbekerk, J. B. Hanmer .......................
AYRSHIRES
Cows, 48 months and over:
1, Pearl of Balquido, $H$. McPherson, Norwich
2, Grace of Fernbrook, E. B. Palmer, Norwich.........
4, Acmelea Grace, H. C. Hammil \& Son, Norwich..
4, Brookside Lady, John McKee \& Son,
Dairymaid of Orkney, H. Mccherson...... \& Co., Campbell-
Humeshaugh Perfect Lady, Alex. Hume ford...................................................................

Cow, 36 months and under 48:
1, Freetrader's Sarah 2nd, Tno. MeKee \& Son........................ 2, Violet 2nd of Hickory Hill, N. Dyment \& Sons.
3, Minerva of Craigielea, H. C. Hammill \& Sons...
5, Lady's Pet of Craigielea, H. C. Hammil \& Sons.
Heifer, under 36 months: . C. Hammil \& Sons. 1, Pansy of Craigielea, H. C. A. Springbank Betsy Brown, A. Turner \& Son. 3, Springbank Lady Jane 2nd, A. S. Turner \& So 4, Freetrader's Jean Armour, John McKee \& Son 5, Freetrader's Jean Armour, John Mammill \& Sons..... 7. Dainty Lass of Springbank, A. S. Turner \& Son JERSEYS.

| Cow, 48 months and over: |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1, Fanny of Edgeley, Jas. Bagg \& Sons, Edgeley .......................... | 4 | 173.2 | 4.9 | 8.48 | 9.7 | 27 | 259.10 | 1, Fanny of Edgeley, Jas. Bagg \& Sons,

2, Edgeley Queen 2nd, Jas. Bagg \& Sons
$\begin{array}{llllllllllll}\text { Cow, } 36 \text { months and under 48: } \\ \text { 1, Beauty Maid of Edgeley, Fred. J. Baggs, Unionville............. } & 36 & 121.6 & 4.4 & 5.35 & 9.17 & 24 & 167.2\end{array}$
 SHORTHORNS.
Cow, 48 months and over: . Jackson, Woodstock
$\begin{array}{lllllll}35 & 129.5 & 4.0 & 5.18 & 9.55 & 41 & 167.68 \\ 40 & 142.6 & 3.4 & 4.84 & 9.02 & 54 & 161.98 \\ 52 & 127.8 & 3.3 & 4.21 & 8.95 & 43 & 140.84\end{array}$
 52

54
Heifer under 36 months:
1, Oxford Lady, S. W. Jackson....
GRADES
Cow, 48 months and over:
1, Bloom, Earl Grier, Woodstock.
Heifer under 30 months:
Heiter under Earl Grier
1, Nigger, Earl Grier...

\section*{| 6 | 185.2 | 4.4 | 8.14 | 9.3 | 27 | 255.16 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 15 | 194.5 | 3.6 | 7.0 | 9.07 | 16 | $227 . .92$ |
| 16 | 166.1 | 4.2 | 6.97 | 9.55 | 28 | 221.83 |
| 19 | 140.8 | 4.8 | 6.75 | 9.35 | 25 | 208.23 |
| 2 | 181. | 3.4 | 6.15 | 9.05 | 34 | 203.29 | <br> ${ }_{31}^{27}$}

Neil McLean, Rockwood, carried off first place among topped calf and looked well in first place, as he was shown in excellent condition. Second place went to Sir Sylvia Colantha, exhibited by Haley \& Lee, SpringIord, while Ormsby Bonerges Hartog 2nd took third for J. J. Fox, Guelph. Among the junior calves, King
Mona Rattler Lestrange, exhibited by H. A. Schweyer, of Jarvis, was placed first. This class was not a par ficularly good one, the entries being very uneven as to
quality and size. Hulet's Count Paul Ladoga was placed second.

Among the junior Ayrshire calves Corollo of Orkney, deep-bodied calf, won first for H. McPherson, of Norwich. Assurance of Donald of Springbank, from the herd of A.S. Turner \& Son, in third. Among the seniors, Turner \& Son secured first place with Springbank General, while Springbank Excelsior took second position away from Sons

Jerseys were very light, there being only two senior buil calves out and no juniors. Fanny's Noble Sunbeam, shown by Jas. Bagg \& Sons, was placed over' Edgeley shown by Jas. Bagg \& Sons, was place
Premier Prince, shown by Fred J Bagg.

\section*{} $\begin{array}{lllllll}1 & 253.5 & 3.4 & 8.61 & 8.55 & 18 & 280.26 \\ 3 & 236.2 & 3.5 & 8.26 & 9.05 & 13 & 270.61\end{array}$ | 224.2 | 3.5 | 7.84 | 9.17 | 30 | 257.68 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 221.1 | 3.4 | 7.51 | 9.15 | 21 | 248.41 |
| 217.3 | 3.4 | 7.38 | 8.72 | 56 | 243.92 |
| 238.0 | 3.0 | 7.14 | 8.5 | 18 | 239.19 |
| 158.2 | 4.8 | 7.59 | 8.75 | 15 | 231.27 | $\begin{array}{rrrrrrr}2 & 192.7 & 4.7 & 9.05 & 9.1 & 30 & 278.84 \\ 8 & 231.9 & 3.2 & 7.42 & 8.67 & 13 & 245.80 \\ 11 & 184.8 & 4.0 & 7.39 & 9.35 & 20 & 236.56 \\ 17 & 207.0 & 3.2 & 6.52 & 8.75 & 19 & 219.83 \\ 20 & 198.6 & 3.5 & 6.25 & 9.17 & 32 & 205.56\end{array}$ $\begin{array}{llllll}184.0 & 3.3 & 6.07 & 9.00 & 25 & 201.43 \\ 163.8 & 3.2 & 5.24 & 8.97 & 20 & 175.07 \\ 146.5 & 3.1 & 4.54 & 9.02 & 46 & 154\end{array}$ $\begin{array}{lllllll}14 & 204.4 & 3.4 & 6.94 & 9.22 & 21 & 230,02 \\ 18 & 170.7 & 3.9 & 6.65 & 9.15 & 20 & 213.11 \\ 32 & 174.6 & 3 & 5.23 & 8.55 & 81 & 175.61 \\ 38 & 147.6 & 3.4 & 5.01 & 8.77 & 38 & 164.87 \\ 39 & 150.1 & 3.3 & 4.95 & 8.7 & 28 & 162.80 \\ 41 & 138.1 & 3.6 & 4.97 & 8.9 & 34 & 161.52 \\ 45 & 144.9 & 3.2 & 4.63 & 9.1 & 38 & 15.09 \\ 48 & 132.2 & 3.6 & 4.75 & 9.15 & 17 & 155.02\end{array}$

## The Dairy Test.

There were 97 entries in the dairy test this year as compared with 96 in 1918 . There were 47 Holsteins,
31 Ayrshires, 7 Jerseys, 7 Shorthorns and 5 grades, but 31 Ayrshires, 7 jerseys, 7 Shorthorrs and 5 grades, but
only 54, all told, qualfifed for prize money as against
63 last year. The winner of the test was a mature Holstein cow, Roxie Colantha Queen, walved May 1915, and owned by Charles C. Best, Jarvis. Her total points reached 280.26 or 37.37 points less than the num-
ber cored by Fayne Segis Pontiac that won in 1918 Roxe Colantha Queen was 18 days in milk and gave
235.5 F lhs testing 34 per cent. Notwithstanding that 235.5 lbs., testing 3.4 per cent. Notwithstanding that
there were two cows that beat this record last year, the Holsteins this year carried away all but two of the frrst 14 places in general standing among the prize winners.
These exceptions were fourth and sixth places, won by a ferecy and Aystire, respectively. Froirth, was won
by Fanny of Edzeley with 259.10 points as a result of giving 173.2 pounds of milk testing 4.9 per cent. She is owned by Jas. Bagg \& Sons, Edgeley, and last yea stood sixth, but gave only 160.0 lbs. milk, although it
tested 5.1 per cent. Sixth place was won by Pearl of tested .1 per cent. Sixth place was won by Pear of
Paltuido this year. She ownd hy Harmon Mc-
Pherson, Norwich, and produced 185.2 ibs. milk testing 4.4 per cent. This gave her a total of 255.16 points, or 35 points less than she secured in 1918 when she stood
second after producing 201.8 lbs. milk testing 4.65 per second aft
cent. fat.
Second place in general standing this year was won with 192.7 lbs. Tile testing 4.7 per cent., giving her 278.84 points. The lowest testing a animal, was a grade heiler testing 2.8 per cent., while the largest yield o
milk was secured from Oakhurst Buttergirl 3rd, that mave 238 pounds testing 3 per cent. as compared with gave 238 pounds testing 3 per cent. as compared with
280.5 pounds testing 2.85 per cent. from Fairview Posch, last year's heaviest producer. It is rather interesting
to note that of the 54 prize winners only 18 yielded to note that of the 54 prize winners only 18 yielded milk
testing 4 -per cent. or above, while 16 tested 3.3 per testing 4 . per
cent. 0 er less.

The dairy banquet, held in Williant's Cafe on Wednesday night, was the most successful ever held. This banquet is always held in honor of the man who wins the test, and this year it was financed by the Holstein irrespective of breed, were invited The President of the fair, I. I. Flatt, occupied the chair and Professor H. H. Dean later remarked that this was the first time the frett officer of the show had ever presided at the dairy
banauet. Mr. Flatt pointed out the need for more accolion at the show and for a greater con that dairymen should study and economize in the cost of producing dairy products and raise our standard of
production and quality. He favored the exhibiting of production and quality. He favored the exhibiting o
pure-bred cattle by districts, so that the breeders in a country or district could secure publicity for that disspeeches were delivered during the evening, among the speeches were
speaters being Charles C. Best, A. Leitct, Geo
Putnam, R. Sterenson, Professor H H. Puttam, R. S. Stevenson, Professor H. H.' Dean,
Mallory, H. C. Hammill and others.

## Poultry.

The poultry show at the Guelph Winter Fair con tinues to grow by leaps and bounds. Last year the
total number of entries was 6,485 , which was a record tota the show. This year the entries numbered fairly
for the close to 7,000 . There is nothing in Canada that can
touch the poultry show at the Ontario Provincial touch the poultry show at the Ontario Provincial
Winter Fair, and it seems as though the limit in size anore popular classes, such as the Barred Rocks, Orpine tons, Wyandottes and Leghorns, the number of entries that, the judge must consider before awarding the
placings will run as high as from sixty to ninety. When and pet stock divithere are 245 sections in the poultry of these are in the poultry classes, it can be readily
understood that the poultry show at Guelph is remarkable in size. An egg-aying competition was again held this year, Barred Rocks taking most of the prize money laid 19 eggs, and thre that laid 16 during the contest. In cases of ties like this.
Standing Field Crop Competition. The winners in grain and rots from the prize-
winning fields in the Standing Field Crop Competition are given below. The amount is iven in trackets a ter
some of the first-prize winners is the price that these lots Oats: 1, Hutcheon, (Champion, 86.50$){ }_{2}^{2}$, R.
Raylor, Brussels; 3, Wilton, 4, A. Schmidt: Alex. McKague, Teeswater;'
Scarboro; 7 , Leitch; Robt. McCowan, Winer, Lucknow; 10, Webster. Spring wheat: 1 , Watson,
(Champion, 88.50$), 2$, S. Schmidt; 3, A. Schmidt; 4 , Webster; 5 , Neil McLean, Rockwood. Fall wheat: 1 ,
Winer, (Champion, $\$ 7,2$, Barrie; 3 , Cowan, Beans:
1, Scott \& Sons, (Champion, $\$ 9.50$. Peas: 1, Wm.
 Lone, Wiarton. Dent corn:1, G. R. Barrie, (Cham-
pion, 44.50 ; 2 , MacColl. Flint corn: 1, Clark \& Sons,
 Agincourt: 2. Geo. McKenzie, Kemble. Turnips: 1,
Andrew McKague, Teeswater; 2, Alex. McKague,
Teeswater.

Stock Judging Competition. Stock Saturday, December 0 , the inter-County Live Stock Judging competition took place for the/J. S. the Collere instead of in the Winter Fair buildings as usual. There were teams from twenty-one counties in the contest, with three men to each team, and they were required to judge two classes of beef cattle, dairy cattle, sheep, swine and horses, giving reasons for their placings. As Asual, the compertion of Agricul= tur Replesentatives, the judges being Professor
Wade Toole, Professor J. P. Sackville, both of the O:A.C.; W. J. Bell, Principal Kemptville Agricultural School, The winners in this competition are given as follows, the possible total of points being $3,000: 1$, Oxford, 2,365 (team composed of Burns McCorquodale, Embro; John Blair, Embro; and Max Butcher, Embro); 2,
Waterloo, 2,332; York, 2,239; 4, Victoria, 2,210; 5, Halton, 2,$179 ; 6$, Durham, 2,$178 ; 7$, Essex, 2,156 ; Halton, 2,$179 ; 6$, Durham, 2,$178 ;{ }^{7}$ Essex, 2,156 ;
8, Grey, 2,$125 ; 9,1$ Brant, 2,$121 ; 10$, Wentworth, 2,$059 ;$ 11, Wellington, 12, Bruce, 2,018; 13, Peel, 2,018; 14, Middlesex, 1,$984 ; 15$, Lambton, 1,$983 ; 16$, Huron, 1,937; 17, Ontario, 1,$903 ; 18$, Lincoln, 1,$884 ; 19$,
1,$863 ; 20$, Norfolk, 1,$834 ; 21$, Welland, 1,571,
The first ten high men are given immediately below with their total score, and Ocar Ierch, Preston, 836 Wallace Marlton, Blackstock, 817; John Blair, Embro, 815; Max Butcher, Embro, 797; Milton Staples, Orono, Malto Mause Weston, 764: Robert Potruft Paris 757 Beef cattle.-Oscar Lerch, Preston, Waterloo, 185; Leslie Gardhouse, Malton, York, 176; Leslie Turnbull, Galt, Waterloo, 176; Pringle Brown, Ayr, Brant, 175; Harold Wies, ${ }^{168}$, Mallesea! Lindsay, Victoria, 168 .
178. William Crawford Tharlon, Blackstock, Durham 178; , William Crawford, Tara, Bruce, 174; Leslie Gard-
house, Malton, York, $168 ;$ M. C. Dalton, Kingsville Essex, 167 ; C. T. Moffat, Acton, Halton; 165 ; Seger Augustine, Kingsville, Essex, 164.
Swine. Leslie Turnbull, Galt, Waterloo is9: Waterloo, 190 Embro, Oxford, 183; Oscar Lerch, Preston, Waterloo 182; Burns McCorquodale, Embro, Oxford, 181; John Blair, Embro, Oxford, 177.
Sheep.-Max Butcher
Sheep.-Max Butcher, Embro, Oxford, 193; William
Craword, Tara, Bruce, 192; John Blair, Embro Crawlord, Tara, Bruce, 192 ; John Blair, Embro, Oxford
186; Harold Stonehouse, Westo 186; Harold Stonehouse, Weston, York, 185; Harvey
Parkinson, Clarksburg, Grey, 184; Wallace Marlon, Blackstock, Durham, 183 .
 Jamiser 158; J. H. Wilmott, Milton, Halton, 157 .
The results of the open judging competition fo
students of the O. A. C. and farmers' follows:
Heavy horses: 1 1, P. C. Connon, $180 ;$ 2, L. H
Hamilton, $174 ; 3$, . J. Greanie, $157 ; 4$, S. S. Breckin
 4, F. S. Thomas, 170 , 5, G. J. Thompson, 167. Dairy
cattie: 1, F. C. McLennan, 196; 2, W. A. Hume, 1886; 3. R. A. Bissonnette, $183 ; 4$, W. Stackhouse, 179 ; 5
H. G. Oldfield, 178 Sheep: 1, D. G. Townsend, 189
 Gaudie, $181 ; 2$, W. E. Snowden, $173 ; 3$, D. J. Lerch,
170; A. A. M. McDonald, 169; 5 , P. D. Vahey. Poultry:
1, E. C. Foreman, $245 ; 2$, G. L. Matheson, $235 ; 3$, Arthur Wils
Hicks, 222:
In the inter-year judging competition for the G. E
Day Trophy, the results were as follows: 1, Fourth year, 4,528 oints, 2, F.rist year, 4,$461 ; 3$, Second year

## Dual-Purpose Shorthorn Club

$\qquad$ advisability of organizing for the purpose of promoting
the interests of this strain of the great Shorthorn breed. Prof. Geo. E. Day, Secretary of the Dominion Shorthorn emphasized the importance of the Shorthorn as the farmer's cow, and deemed it high time that steps were
taken to establish a uniform type for the dual purpose animals. The necessity of combining milk and meat was emphastzec, and a warnning note sounded regarding
the importance of not sacrificing form for too high milk records. After considerable discussion it was
decided to organize a Dual-Purpose Shorthorn Club The objects are to bring out the milking qualities of true dual -purpose cattle, and to encourage breeders Club and parent association will work in harmony for the benefit of Shorthorn interests. It was decided that
the annual meeting of the Club be held the day proceeding the annual meeting of the Dominion Shorthorn
Breeders' Association. The initial membership fee was set at five dollars, with an annual fee of one dollar
The following officers were elected: Hon. Pres Hon E. C. Drury, Toronto; Hon. Duncan Marshall
Alberta; Prof. E. S. Archibald, Ottawa, and Prof. M. C.

Cumming, Truro. President, G. S Smith, Meadow-
vale; Vice-President, H. Scott, Caledonia; Secretary B. Whale, London: Executive, Prof, G. E Wheaton and John Wele. Directors: ohn Weld S. Jackson I. B. Whale A M. Wheaton, John Weld, S. Jackson, I. B. Whale, A. McLaren, J. M
McCallum, Prof. Barton, E. R. Wood G. Hainna. The meeting was favored by instructive ad-
dresses from Prof. Archibald, Hon, D. Marshall, and Wresses from

Tenth Annual Fat Stock Show Brings Out Heavy Entries.
The tenth annual Toronto Fat Stock Show was suc-
eessfully held on Thursday and Friday, December 11 ass 12; this being the tenth consecutive year that a fat-stock show has been held at the Union Stock Yards. The weather was not as cold as in 1918 , with the result
that the yards were more or less soft and none too pleasant to get around in, but there were quite a number of drovers and brederers present to take in both the judging on
second day.
The entries were exceptionally heavy, being about
430 as sixty entries in the class for grade or cross-bre about ixty entries in the class for grade ores inss-bred steers nrade or cross-breds one year and under two, and about Torty entries in the class for heifers under one ycar.
The
The These represent probably the largest classes in the whole
show, but the entries were very satisfactory throughout, show, but the entries wer and swine as well as to ghout, The Toronto Fat Stock Show is a straight commerciai proposition, that is to say, it is a show of market live stock, and the breeding qualities are practically disdisregarded. The judges, for the most part, are buyers Oor the packing houses, either in ioronto ar Chicago, sentatives of the Ontario Department of Agriculture assisting. All of the stock entered is first culled out by a culling committee before it goes into the ring, so that the judges have to pass on only a comparatively small percentage of the stock entered. The culling
committee decides what stock is worthy of entering the show-ring, and only this stock goes up in competition The judges in the single cattle this year were as
follows: Leo Hess, of Morris \& Company, Chicago T. H. Ingwerson, Swift \& Company, Chicago; J. P. Gordon, Department of Agriculture, Toronto and James Bowman, Guelph. Butcher steers, judges: F. Hunnisett, James Bowman, and A. Talbot. Butcher steers, carloads: A. Levack, , L. L. Shearer, J. Neely. F. C. Sherwood I. H. Dingle, E. Puddy Swine: R Carter, A. Mclean, W. J. Johnnton, F. M. Williams. will be discontinued after this year, in view of the fact that the Royal Canadian Winter Fair Association has Toronto, beginning in 1920. It will be readily recog nized by anyone who has gone to the Toronto Fat Stook-
Show that the Union Stock Yards is no place for a liveShow that the Union Stock Yards is no place for a live stock exposition. At the same time it is only fair to
say that the Toronto Fat Stock Show has served to keep the market requirements for cattle, sheep and
swine prominently before those breeders and feeders who have visited the show, or exhibited there during the last ten years.

Grand champion honors among the fat cattle went
a grade Angus steer, "Black Hector", shown by W. \& G. Whitelaw, Elora. This steer had a rather difficult career at the Winter Fair at Guelph, and the
Toronto Fat Stock Show. He was badly beaten in the open class for grade or cross-bred steers, at Guelph, but, by reason of the fact that he was made champion
Aberdeen-Angus animal of the show, he came up ater in the championshin class and was made reserve champion fat animal, giving first place to Gardhouse's Roan Jasper. At Toronto, Roan Jasper won first place
in the Boys' Steer Feeding Competition, but when he came up against Black Hector in the championship class the latter defeated him, not entirely to the satis-
faction of all who were looking on. The black steer was probably a little deeper fleshed than Roan Jasper, but the latter was the smoother of the two and in better
condition for showing. He possibly would not dress condition for showing., He possibly would not dress
out so well as the Angus steer, but teither was he so rot sing owerer, much lighter, weighing only 1,110 pounds,
was, however The latter sold at the auction sale on Friday for seventy five cents per pound to H. P. Kennedy, Limited. This
compares with sixty cents per pound received last year Ior T. A. Russell's "Shorty," the pure-bred Shorthor,
steer. It will also be remembeted that "Black George," Leask's grand champion of 1917 , brought $\$ 1.00$ a pound
from the Harris Aobat best three cattle in the show went to T. A. Russell, of Downsview, for three steers weighing 3,670 pounds and
selling for 26 cents per pound. The champion carload selling or 26 cents per pound. The champion carioad
of fifteen dehorned steers were certainly a very fine lot, and were shown by George Rowntree, of Sprucedale Farm. Rowntree had two carloads of steers on ex-
hibition, one of which was a lot with Hereford blood Tredominating, and the other with Shorthorn indications pounds, selling for 21 cents per pound, equalling, in fact, the price paid for the steers under ' 900 pounds in weight. The champion heifer of the show was exhibited
by G. S. Ferguson \& Son, and was a heifer under by G. S. Ferguson \& Son, and was a heifer under one
year of age. She weighed 1,100 pounds and sold for
cents a pound. Roan Jasper, the Gardhouse steer
was defeated for grand championship, and the
bat
winner of the pound. Among the sheep and lambs the 0 cents per poueced was for a pen of ten short-wooled
Tambs, weth C. E. Meggs, Paris, and sold for 41 cents per pound to the 36 cents per pound for a pen of six
highest price was
lambs, wethers or ewes under 90 pounds, while the ambs, wethers pen of wethers or ewes under one yea third prize pampton Bros., of Fergus, sold for 35 cents
siown by Hame prices for hogs at the auction sale o The prices for hogs at the auction sale on
varied from 26 to 50 cents per pound. J. E. Brethour \& Nephews sold 5,140 pounds of hogs, live
welght, for an average of 41 cents per pound, one lot of weight, or angs, 170 to 275 pounds in weight, selling for
ten bacon hor
$401 / 2$ cents per pound. These hogs averaged 216 pounds 491/2 cent The high price in swine was secured for a litter
each
of eight hogs, weighing 1,630 pounds in competition for of eight hogs, weighing 1,630 pounds in competition for
the United Farmers'
Co-operative Company Special. This handsome price of 50 cents a pound.
the exhibitors and awards in cattle, sheep and swine are given below, the weight and selling price at the
anction sale of each prize-winning entry being given in

## Cattle.

Exhibitors.W. \& . G, Whitelaw, Elora; J. D. D. Amos \& Sons, Moffatt: Jas. K. Campbell \& Sons,
Altimerton John Brown \& Sons, Gatt: Oril Williamson,
 W. Marguis \& Sons, Sunderland; Wms Hill, Goderich; Adrew Hicks \& Sons, Centralia; Gea. A. Guthrie \&
Sons, New Dundee; Jos. Stone, Seagrav; Ryside
 Watson, Real, Seagrave; Ernest Cochrane, Ayr; John
Hirche
Nithell Dover, Aurora; J. E. Leask, Seagrave, Short Rros,
Elora; Henry Wade, Pickering; A. Elcoat, Seaforth; Alired Paut, Kirkton, Geo. Barrie \& Sons, Gatat; Hugh



 Tesesvater; D. S. Ferguson \& Son, Gal.
1, J. D. Ferguson \& Sons, (1,650 lbs. at 21 . cents), Puitebred sterer, one year and inder $2: 1$ Barr, (cham$\begin{array}{ll}\text { pion pure-bred } \\ 1,2,20 \\ \text { at } 266 ; & \text { 3, Jas. }\end{array}$ 26); 4, John Brown \& Sons, ( 1,400 at 22). Pure-bred steer, under one
Meal Special, 1,070 at 33 ); ; 2, D. J. Lerch,
( 960 at 30 3, Orville Burton, ${ }^{(1,010 \text { at } 23) ; ~ 4, ~ W m . ~ M a r q u i s ~ \& ~}$
Sons, $(1,100$ at 26$)$. Grade or cross-bred steer, 2 years and under $3: 1$, Jas. Stone ( 1,510 at 26) ; 2, J. D. Ferguson \& Sons, 1,610 at 23$) ; 3,19$. Grade or cross-bred
 pion. grade or cross-bred steer, bought by H. P. Kennedy
for $\$ 967.50,1,290 \mathrm{lbs}$. at 75 cents); 2, T. A. Russell, (1,170 at 32$) ; 3$ and 5 , Orville Burton, ( 1,210 and 32 ,
and 1,070 at 27 ); 4, Andrew Hicks \& Sons, $(1,510$ at 25). Grade or cross-bred steer, under one year: 1 and
2, Guthrie \& Son, ( 1,170 at 35 , and 1,250 at 31 ) 3 ,



 at 19. Heifer, under one year: 1 , D. S. Feryuso \&
Son, (champion heifer, 1,100 at 366 ; 2 , Doner, 850 at Sol
30) 3 , Leask, ( 820 at 30 . Calf Meal Special: 1 ,
Willianm


 Hereford stecrs, $, 1,000$ oubs. and under: 1 , Barrie \& Sons,
 and under, (2,570 at 34); 2, Paul, (2,960 at 29); 3, Mc
 Three steers, any breed or gracel or mixea
1,000 llss and under: 1 and 3 , Paul, 2,770 at 2 , and Three pure-bred or grade Shorthorn steers, over 1,000 bss: 1 , Russell (grand champion, best three cattle in
 or grade Hereford sters over 1,000 ibs.:1 I) Jo. brow
 Three pure-bred or grade Angulsterts. gradeo, or mixed breed, over 1,000 ibs. 11, W. C. Wallace,
$(3,600$ at 22$) ; 2$, Adam Armstrong, $(3,910$ at 21$)$,
Trree
 15). Three heifers, uner one year: 1 , short Bros.
$(2,600$ at 25$), 2$ and 3 , Paul, $(2,300$ at $23 / 2$ and 2,660 2,600 at
21







## SHEEP

Exhibitors.-John Houston, Chatham; A. Houston,
Merlin; John Brown \& Sons, Galt; A. Elcoat, Seaforth: Merlin; John Brown \& Sons, Galt; A. Elcoat, Seaforth;
T. Mason, Clinton; J. D. Ferguson \& Sons, St. Thomas; C. E. Meggs, Paris; Robert E. Cowan, Galt; C. J.
Brodie, Stouffille; J. S. Baker, Burford; Hampton Bros., Fergus; William Murdoch, Palmerston.
Awards.-Long Wools.-Pen three wethers or ewes,
one year and under two: 1, John Houston, ( 485 pounds one year and under two: 1, John Houston, (485 pounds
at 11 cents); 2, A. Houston, ( 405 at 12). Pen of three wetheris or ewes; under one year: 1, Brown \& Sons,
(295 at 26); 2, John Houston, (375 at 1914); 3, Elcoat; (295 at 20). Carload of 50 fat sheep: 1, Mason, (7,400 wethers or ewes: 1 and 3 , Fefguson \& Sons, ( 5,370 at wethers or ewes: $181 /$ and 4,450 at $181 / 2)$; ; , Meggs, ( 4,910 at $183 / 4$ ),
Pen of 10 lambs, wethers or ewes, under 100 lbs . each; 1, Meggs, ( 950 at 21); 2, Ferguson \& Sons, ( 870 at 2014); or ewes, one year and under two: 1, Brodie, (340 at 24); or ewes, one year and under two: 1, Brodie, (340 at 24 );
2, Meggs, ( 360 at $231 / 4$ ); 3 , Hampton Bros., ( 415 at $181 / 2)$. Pen of wethers or ewes, under one year: 1 ,
Brodie, ( 265 at 34 ) $; 2$, Meggs, ( 295 at 33 ); 3 , Hampton Bros., (250 at 35). Carload of 50 fat sheep: 1, Ferguson \& Sons, ( 5,720 at $103 /$ ); 2, John Houston, ( 7,140 at (4,460 at 301/2); 2, Murdoch, ( 4,310 at 21114); 3, Ferguson \& Sons, ( 4,360 at $211 / 2$ ). Pen of 10 lambs, wethers or ewes, under 100 pounds each: 1 , Meggs, ( 905 at 41 ),
2 and $3, ~ B r o d i e, ~$
825
at $241 / 2$, and 745 at $241 /$ ). Pen of 6 and 3, Brodie, 825 at $241 / 2$, under 90 pounds each: 1 ; Meggs,
Brodie, ( 405 at 27).

SWINE
Exhibitors.-Henry Wade, Pickering; Joseph Stone, Seagrave; Thomas Chard, Lambton Mills; Nelso Boynton, Gormley; J. Lerch, Preston; J. E. Brethourt
$\&$ Nephews, Burford; Campbell Bros., Shedden; J. A Cameron, Woodbridge; Wm. Boynton, Buttonville J. K. Featherstone, Streetsville; G. Graham, Udora Leo Chard \& Son, La 3 . $170-225$ Awards.-Pen of 3 barrows, 170-225 lbs.: 1, Wade,
$(610$, pounds at $311 / 3$ cents ); 2, Stone, ( 640 at 26). Boys' Hog Feeding Competition: 1, Thomas Chard, ( 650 at $353 / 4$; 2, Nelson Boynton, $(570$ at $25 \%$. Best pen of 3 bacon hogs: Brethour \& Nephews, ( 630 at 42). Tankage Special:
1, Lerch, ( 590 at 42). Pen of 10 hogs, $170-225$ pounds 1, Lerch, ( 590 at 42 . 1, Brethour Bros., ( 2,230 at 48 ); 3, Cameron, ( 1,960 at 30 ). Pen o 5 barrows, $170-200$ pounds: 1 , Wm. Boynton, ( 1,010 at 46. ${ }^{46}$; 2, Featherstone, $(1,020$ at $363 / 4) ; 3$, Brethour \& Nephews, (940 at 37). Davies Arnual, Nelson Boynton, at 35); 2, Chard United Farmers' Co-operative Company (1,300 at 28 ). 1, Featherstone, (1,630 at 50); 2, Andrews, (1,490 at 1, Featherstone, \& 3 ); Brethour \& Nephews, ( 1,410 at 31 )

Conference about the Scrulb Bull. The matter of a scrub-bull campaign was the subject of a conference between officials of the Domnion tario Provincial Winter Fair last week. Among those present were Hon. Dr. F. S. Tolmie, Minister of Agricul Agre, Ottawa; Drawa ; E. S. Archibald, Director ExperiAgriculture,
mental Farms, Ottawa; H. S. Arkell, Live-Stock Com-
missioner Ottawa; W. R. Reek, Assistant Live-Stock mensioner, Ottawa; W. R. Reek, Assistant Live-Stock
Commissioner, Ottawa; Hon. Manning W. Doherty, Commissioner, Ottawa; Hon. Manning Sailey, Agricultural Commissioner, R. W. Wade, Director Live-Stock O.A.C.' Tranch, Toronto; John Gardhouse, President Ontario
Brattle Breeders' Association, Weston. A plan was presented which would require the appointment of special field man to direct a campaign istricts wherein the work would be concentrated. This special officer of the Provincial Department would work undertion of which of the Ontario
R . W Wade is Secretary. It was planned that the R. W. Wadicult representatives would play a very prominent part in the campaign, and
$\$ 12,000$ would be the amount required from the Pro vincial Government especially from the Federal Depart of those present, espeeceas on the subject, with the ment, that no agreement was reached, except to appoint a further small committee consisting of one representative from the Ontario Cattle Breeders Assoriation, representative from the Ontatative from the Dominion ture, and a thir Agriculture. This committee, it is Departmen will meet soon and bring in recomm
expected,
to both Federal and Provincial Governments.

Stockmen Meet Premier Drury
 proposed Eastern Canada Live-Stock Show, to be con-
ducted at Toronto under the name of the Royal Canadian Winter Fair Association, waited on remier to the grant
several members of his Cabinet with respect the
of $\$ 30,000$ for ten years, which is asked of the ProThe delegation was received by the Honorable Messrs. Drury, Biggs, Doherty, Raney and Nixon, the Honorable
Manning W. Doherty introducing the delegation and reading a letter from the Winter Fair Association setting forth their requests. This letter asked for for $\$ 1,000,000$ to be submitted to the people of Toronto might be fully understood and backed by the support
of the Provincial Government. W. A. Dryden, Brookin, who headed the delegation, presented the need for a large live-stock and agricultural winter fair, after first making some congratulatory remarks, both with
reference to Mr. Drury and his Government and also with reference to the appointmint as Minister of Ag.t culture of the Honorable Manning W. Doherty. The financial aspect of the matter was presented by George used altogether for prize money, and that it was anticipated that the new arena would be completed in time or the Canadian National Exhibition in 1920, and that a prize-list would be provided for the Winter Fair in
November or December following, amounting to $\$ 75,000$ was that the City of Toronto is giving $\$ 600,000$ toward the cost of the new arena and that private citizens of Toronto are subscribing an amount equal to $\$ 400,000$ spread over the next ten years.
Pren
Premier Drury received the delegation very frankly and stated that personally he thought Toronto could be made the home of a much better show than and needed careful consideration, because the finances of the Pro vince were not in any too good shape. Personally he was in favor of assisting the show with prize money
to any reasonable extent, and wondered if it would be to any reasonabe the stockmen if the Government would guarantee assistance up to $\$ 30,000$ a year for ten years should this amount be needed. It was pointed out by the stockmen that such a reservation might possion be detrimental to the start of the show, a grater surplus than $\$ 10,000$ from being accumulated at any time, and that if a surplus was accumulated which was not necessary for prize money, che Associace or four feeder exhibitions which might be designated by the Minister of Agriculture as worthy of such assistance. The manner of the Premier and that of his colleagues was especially frank and worthy of praise. Fremier Drury not possible before Tuesday, December 16, but that an answer would be given then, and as nearly as could be judged this answ.
to the stockmen.

## U. F. O. Live-Stock Business.

 Probably the most remarkable development in Eastern Canadian agriculture during Stockear 1919 has of the United Farmers' Co-operative Company, at the Union Stock Yards, Toronto. In the short space of ten months and a half this first big venture of the U. F.O. Co-operative in marketing farm products has piled up a business of $\$ 7,445,000$, a truly remarkabe expectation. Speaking with F. J. Fulthorpe, Office Manager of the Live-Stock Department at the Union Stock Yards, a representative of "The Farmer's Advocate" learned that live stock has been received from 300 different shipping points in Ontario, that as near as served by this branch of the U.F.O. Co-operative Company. Altogether, more than 3,600 carloads of live stock have been handled at a cost of about threequarters of one per cent. 124 carmeads of live-stock to has shipped as much as be handled by the U. F. the tat live-stock business done for this club amounting to more than $\$ 296,000$. Quite a number of clubs have done business with the U. F. O. in live stock alone amounting to more than $\$ 100,000$, from the was first opened, to the 30th of November.
## U. F. O. President Now an M. P. R. H. Halbert, Presicent of the U. F. O. . has been conceded the victory in the recent North ontario by-election, defeating Neil D, Mack of balloto an Majority,  Sece majority is concerned, and the results may be the majority before theis is read. Mr. Mackinnon is a announced bed bed amiler by trade, and resides in Cannington. He contested the riding as an Independent Unionist inr  duties as President of the U. F. O. when the convention  whom is viecopresident, will also probably wish wo be relieved of his $\mathrm{F} . \mathrm{F}$. of office, in which casa a Preident relieved of his U. F. O. office, in which case and Vice-President will have to be elected.

# Toronto, Montreal, Buffalo, and Other Leading Markets 

Week Ending December 11.
Receipts and Market Tops.


Toronto (U. S. Y.).
Montreal (Pt. St: Cha
Calmipeg

CATTLE
Top Price Good Steers
$\left.\begin{array}{cccccc} & \text { Receipts } & & & \text { Top Price Good Steers } \\ (1,000-1,200)\end{array}\right)$ Week

HOGS
 calves

Top Price Good Calves


Receipts calu

|  | Receipts |  |  | ce S |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | Same |  |
| 11 | 1918 |  | Dec. 11 | 1918 | D |
| 380 | 10,162 | ..10,224. | \$16.75. | \$18.75. |  |
| 220. | 3,928. | 1,452. | 16.75 | 18.50 |  |
|  | 1,820 | 1,602 | 16. | 18.50 |  |
|  | .14,737 | 5,548. | 16.0 | 18.00 |  |
| ,374 | 3,975 | 982. | 15.7 | 17.35 |  |
| 770 | 1,349 | 28 |  |  | 1.0 |

Toronto (U. S. Y.).
Montreal (P. St. Charles)
Montreal (East End)
Montreal (East End).
Winnipeg
Market Comments. Market Comments.
Toronto (Union Stock Yards). Toronto (Union Stock Yards).
The quality of the catte offered for The quality of the cattle offered for
sale during the week showed considerable improvement over anything pre
viously offered during the past three month, many choice baby beeves being
on sate in addition to many loads of on sate in addition to many loads of
choice butcher cattle. The market acchoice butcher cattle. The market ac cumulated more strength, and mace
advances ranging from 25 cents to 50 advances ranging irom 25 cents, to
oents per hindred on Monday, and
and accumulated further strength during the
week, until on Wednesday prices ruled wek, until on Wednesday prices ruled fill $\$ 1.00$ per hundred above the market
of the previous week. Baby beeves commanded a premium throughout the
 to 321 per hundred, one or two loads being marked up at the latter price
One load consisting of twenty-four head One load consist ing or twentr-d ound hifty
which averaged seven hundred and phich averaged seven hundred and fifty While pumerous sales were made at prices ranging from $\$ 14$ up to 818 . A numbe of heavy steers sold at 815.50 per hundred
one straight load; which averaged twelve one straight load, which averaged twelve
hundred pounds, left the scales $\$ 13.75$,
and a number of loads found an outlet hundred pounds,
and a number of loads found an ourtlet
within a range of $\$ 12.50$ to $\$ 13.50$ per uundred. Steers weighing from ten hundred to twelve hundred pounds were
purchased from $\$ 12$ to $\$ 13.50$ for those of good to choice grading, and from $\$ 1$ to 812.50 for those of medium grading. Handy-weight butcher heifers were freel
purchased at prices from $\$ 11.50$ to $\$ 12.5$ purchased at prices from $\$ 11.50$ to $\$ 12.50$
per hundred. Steers under ten hundred per hundred. Steers under ten hundred while common stock of both kinds was weighed up from $\$ 6$ to $\$ 8$. Cows and bulls moved freely at advanced prices;
few fancy cows were weighed up at \$14 few fancy cows were weighed up at $\$ 1$ per hundred, good cows sold mostly from
$\$ 10$ to $\$ 10.75$, and good bult from $\$ 9.75$
to $\$ 1075$. Canners were advanced 25 cents on Monday, but lost that apprecia tion on Thursday. Trading in stockers
and feeders was quiet, but a few shipand feeders was quiet, but a few ship
ments were made to country points at prices ranging from $\$ 10$ to $\$ 11$ for good
feeders, and from $\$ 8.50$ to $\$ 9.50$ for good stockers. There was no change to the tone of the calf market, choice
Ten thousand sheep and lambs were unloaded for sale, and despite the heavy Sales being made during the week within a range of $\$ 15.50$ to $\$ 17$, per hundred the latter price being paid for a few top lambs on the Thurscay market. Shee were unchanged with
to $\$ 8.50$ per hundred.
The market for hogs was unsettled throughout the week, packers again en-
deavoring to bring about a reduction in price. On the Monday market, select hogs sold at $\$ 16.75$ per hundred, on Tuesday sales were made at a reduction the week practically no sales were made packer buyers bidding $\$ 15.75$, and commission firms holding out for $\$ 16$ and
$\$ 16.25$ per hundred. $\$ 16.25$ per hundred.
The total receipts from January 1 to
December 4, inclusive, were 350,102 December 4 , inclusive, were 350,192
catte, 63,508 calves, 366,873 hogs and
273,081 sheep: compared with 277,712


aven stockers, eighty sheep, and six
hundred and eigdty-two hog. Trading
hog adred and end dragey throughout the
s. flow and welk especiat lower prices. There was a firmer tone to the market for butche cattle on the closing day, and all stock sold freely; other claseef remained steady Stocker steers and heifers were easier tones those of good grading sold from
80.50 to $\$ 7.50$, and fair from $\$ 5.25$ to
 from $\$ 9$ to $\$ 10$,
$\$ 7.25$ to $\$ 9,50$.

## Buffalo.

Cattle.-Cattle prices showed a decline generally last week, shipping steers; commoner kinds, showing a range of from 812 to $\$ 15.50$. For the week, a liberal bupply of cattle were here for the Fat
Stock Show, and some record local prices were paid, grand championship steer, horn cow and Angus bull, was fed in Ohio horn sow for $\$ 85$ per hundred. The load of grand champion steers, brought $\$ 27$ per hundred. Ont., had a load of steers Lucan, Ont., a load at $\$ 13$. Campbell Broan, thers, of Shedden, Ont., had a single steer to sell at $\$ 22$ per hundred, another at $\$ 21.50$. J. D. Ferguson \& Sons, of
St. Thomas, Ont., had a ster at $\$ 20.25$. W. W. Reviagton, of Lucan, Ont., one one at s13.50. A single Hereford steer, onown by Campbelf Brothers, brought
$\$ 22$ per hundred. G. B. Vining, of Thorndale, Ont., had a fat cow to sell up to $\$ 15.75 .7$. Campbell Brothers, one one at $\$ 14,75$. Show was much larger, onan
at $\$ 14$. The Sho Sast year, and the Canadian cattle made a most excellent showing, especially for 0,375 head, as against 4,875 head for last week, and as compared with 5,500 head
for the corresponding week a year ago Quotation
Shipping Steers, Natives, - Very choice heavy, $\$ 16.50$ to $\$ 17$; best heavy, over 1300, 815.50 to $\$ 16$; fair, over 1,300 $\$ 15.50$; good, 1,200 to 1,300 , $\$ 14$ to $\$ 15$ good, 1,100 to $1,200, \$ 13.50$ to $\$ 14.50$ plain, $\$ 11.50$ to $\$ 12$.
 to $\$ 13.50$; medium weight, $\$ 12.75$ to
$\$ 13.50$; common and plain, $\$ 11$ to $\$ 11.60$, Butchering Steers.- Yearlings, fair to prime, $\$ 14$ to $\$ 16$; choice, heavy, $\$ 13.7$
0 . $\$ 14$ - best handy $\$ 13$ to $\$ 13.50$; fair to to $\$ 14$; best handy, $\$ 13$ to $\$ 1.50$; iair to $\$ 9$ to $\$ 10$.
$\$ 11.50$ to 812 . good butcher heifers, $\$ 10.50$ to $\$ 11$; fair butchering heifers, $\$ 9.25$ to $\$ 10$, light, common, $\$ 6$ to $\$ 7$;
very fancy fat cows, $\$ 10.25$ to $\$ 10.75$,,$~$ very
best heavy fat cows, 9.50 to
to
to best to good, $\$ 7.50$ to $\$ 9$ cutters, $\$ 6$ to $\$ 6.50$;
canners, $\$ 4.50$ to $\$ 5.50$; old rims, $\$ 4$ to $\$ 4.50$,
Bulls.-
Best heavy, $\$ 10.25$ to $\$ 10.50$; good butchering, $\$ 9.75$ to $\$ 10$; sausage,
$\$ 7.25$ to $\$ 7.75 ;$ light bulls, $\$ 6$ to $\$ 8$; oxen, $\$ 7.25$ to $\$ 7.75$
$\$ 9$ to $\$ 11.50$.
Stockers and Feeders.- Best feeders,
$\$ 9.75$ to $\$ 10$; common to fair, $\$ 8$ to $\$ 9$; best stockers, $\$ 8$ to $\$ 8.50$; fair to , good,
$\$ 7.75$ to $\$ 8.25 ;$ common, $\$ 6$ to $\$ 7$ Hogs.-Prices were given a hard jolt at all marketing points the first half of last week, but aiter Wednesday receipts
were lighter and trade was considerably improved. Monday, "when the decline from 60 to 65 cents, good hogs sold from 60 to 65 cents, good hogs sola
generally at $\$ 13.60$, with lights and pigs bringing up to $\$ 14$. Tuesday the better weight grades dropped to $\$ 13$, with pigs
$\$ 13.50$, and by Friday packers' grades were selling up to $\$ 14$ and $\$ 14.25$, with lights and pigs up to $\$ 14.50$. Around
fifteen decks were here for the Show, and the grand champion load, which was's anld
Friday brought $\$ 15.25$. Roughs ranged from $\$ 12$ to $\$ 13$, with stags selling from 311 down. Receipts for last week were head for the week before, and 40,400 head for the same week a year ago. vances were made on sheep and lambs last
week. Monday the best native lant week. Monday the best native lambs
sold at $\$ 15.75$; Tuesday top was s $\$ 16$ Thursday's top was $\$ 16.75$, and Friday
the bulk made $\$ 17.50$. Canadian lambs The fore part of the week showed culls. selling from $\$ 13.50$ down, and by Friday the best seconds brougt up to $\$ 14.75$.
Yearring wethers reached 814 , best wether sheep were quoted from $\$ 10.50$
to $\$ 11$, and top ewes ranged from $\$ 8.50$ to $\$ 911$, and top ewes ranged from $\$ 8.50$ to The grand champion load of show lambs were Southdowns, fed by C. E. Meggs, of Paris, Ontario, and sold for $\$ 31$ per cwt. Receipts for last week were 28,000 head,
being against 24,411 head for the week being against 24,411 head for the week
before and 18,500 head for the same week a year ago.
a year ago. Last week opened with best vealves. seling at week opened with best
from $\$ 17$ down. Demand thllil ranged
Dext three from $\$ 17$ down. Demand the next three
days was light, and as a result prices were days was light, and as a result prices sere
on the decline. Thursday buyers got the best veals down to $\$ 20$ and $\$ 20.50$, and
Fridd Friaay, under a keen demand, trade was up to 821.75 . The latter part of the week showed few culls bringing above
\$15, and grassy kinds ranged from $\$ 8$ \$15, and grassy kind raned from 88
down. Receipts for last week were 4,400 head, as compared with 3,360 head for
the week before, and 2,450 head for the the week before, and 2,450 head for the
same week a year ago.

## Toronto Produce.

Receipts of live stock at the Union
Stock Yards, Toronto, Monday, Decumber Stock Vards, Toronto, Monavy, Dec $\mathbf{1 5 m b e}$, numbered 256 cars, 4,409 cattle, 500 15, numbered 256 cars, 4,409 cattile, 500
calves, $3,723 \mathrm{hogs}$,
, 2444 sheep and lambs Slow draggy market at prices much the
seme as previous Monday but lower by fifty cents than midweek. Quality poo Few good christmas cattle. Top 16 c each Cows and bulls steady: calve each. Cer, sheep steady. Lambs strong.
weaker
Chioce 16 to 17 cents. Few at $\$ 17.50$. Choice 16 to 17 cents. Few at $\$ 17.50$, Hogs 816.50 , fed and watered Wheat, - Ontario (f.obb.shipping points, according to treights- 2 No. winter, per
car lot, 22 to $\$ 2.01 ;$ No. 2 winter, per car
 lot, \$1.93 to $\$ 1.99$; No. 1 spring, per car
ot, $\$ 2.02$ to $\$ 2.08$; No. 2 spring per car ot, $\$ 2.02$ to $\$ 2.08$; No. 2 spring , per car
lot, $\$ 1.99$ to $\$ 2.05 . \quad$ No. 3 spring, per car lot, $\$ 1.95$ to $\$ 2.01$. Manitoba, No.1 northern, $\$ 2.30$; No. 2 northern, $\$ 2.27$
No. 3 northern $\$ 2.23$. Manitoba Barley.- (In store, Ft. Wil-
liam), No. 3, C. W, 81.57 ; No, 4 C. W. liam), No. 3, C. W., \$1..27; No. $\$$. $\$ 1.28$, Oats.-Manitoba ro. store. F.
lian) No. 2 C . W. 88 c. . No. 3 C . W.,. 85 c . hiam) No.
Extra. No. 1 Fed
$831 / 2$. No. 2 Feed 80c.
Oats, Ontario, (according to freights outside) No. 3 , white, 88 c. to 90 c
American Corn.- (Track, Toronto, prompt shilpm, $\$ 1.60$
No. 3 yellow,
Barley.-(According to freights out-
side), malting, $\$ 1.50$ to $\$ 1.53$.
No. 2, $\$ 2.60$.-(According to freights
outside), 81.30 to $\$ 1.32$.
Rye.-(According to freights outside),
Rutsiden No. 3, \$1.37 to \$1.40.
Flour-Manitoba,
ard, $\$ 11$, (Tovernment stand
(Toronto); Ontario; ( (in jute ara, pors, shipment). Government
bags, prompt
standard, $\$ 9.50$ to $\$ 9.60$, Montreal and
Toronto.
Millfed.-Car lots delivered, Montreal freights, bags included. - Bran, per ton, $\$ 45$; shorts, per ton,
Hay.-(Track Toronto), No. 1 per ton, $\$ 26$; mixed, per ton, $\$ 21$ to $\$ 23$. ton, $\$ 14$ to $\$ 14.50$.

Hides and Wool.
Prices delivered in ourcher hides, green,
City Hides.- City buthen fats, 60 c flats, 25 c . c calf skins , green flats. 60 c .f
veal kip
$\$ 8$ to $\$ 10$. Market.-Beef hides, flat, cured, 28 cc ., part cured, 25 c .- green o Irozen hides
$\$ 2.50$ to 83 horse, hides, country take-off,
$\$ 10$. No. $\$ 6$. to $\$ 8$; No.
 sheep skins, \$2.0horse hair, farmers' stock
35 c . to 40 c . Wool.- - nnwashed 40 . to 60 c . Wool, washed, quality,
fine, 65 , to
Tallow.
City rels, 9 c c to 10 c .; country so. 1, 11c. to 12c. No. 1, 7c. to Country Produce.
Butter again advanced on the whole-
sales during the past week, selling as fol-
lows: Choice creat
 67 c . per lb.; and best dairy at 62 c . to 65 c .
per lb.
eggs kept stationary in price, with slishtly easier tendency, selling as follows Wholesale, new-laids, 85c. to 90 c . per
doz; selects at 64 c . per dozen, and No. Cheese. - The market kept firm at stationary prices, old cheese selling at
34c. to 35 c . per lb., and new at 32 c . per Honey-Choice comb, $\$ 5$ to $\$ 6$ per Hozey, strained, e2c. .to 26 c. per 1 bb . Poultry.- There was a firming tendency in poultry during the past week, due, no
doubt, to the approach of Christmas. The following quotations are for live ens, 20 c . to 22 c . per 1 bb ; ducklings, 22 c .
to 24 c . per lb . old ducks. 15 c . per 1 lb ; to 24 c . per lb . old ducks, 15 c . per lb .
hens under 41 ls ., 15 c . per 1 b . Hens 4 to 5 1 bs ., 22c. per 1b. Hens over 5 lbs., 23 c . geese, 18 c . 1 lb .; turkeys, 35 c . per 1 b .
Wholesale Fruits and Vogetables. Owing to the difficulties of transportation exchange demanded by the United
rate of States, there was an advancing tendency
on most of the fruits, nuts, holly etc, on most of the fruits, nuts, holly
during the past week. during the past week.
Celery is ouite scarc
Cabbage took a bound up in price, as it too is quite scarce.
slightlys also firmed slightly.
Potatoe
Potatoes ke
$\$ 2.60$ per bag.
Wholesald Quototions.
Apples, -Western boxed, $\$ 3.15$ to $\$ 5$
per box; Ontario and Nova Scotia barrels, $\$ 5$ to $\$ 10$ per bbl; baskets, 50 c . to 75 c . per 11 quarts.
Grapes.-Imported Emperors, $\$ 7.50$ to
$\$ 8$ per keg; Spanish Malagas, $\$ 11$ to $\$ 18$ per keg.
Oranges-Navels, $\$ 6$ to $\$ 7$ per case;
Valencias $\$ 5.50$ to $\$ 7$ per case; Floridas $\$ 5$ to $\$ 6$ per case.
Pears. Tomatoes:-Hot-house No. 1's 35c. 38c. per 1 b . No. 8 's, 25 c . to 30 c . per lb .
Beets. $\$ 1.35$ to $\$ 1.50$ per bag. Beets. $-\$ 1.35$ to $\$ 1.50$ per bag.
Cabbage. $\$ 3.75$ to $\$ 4$ per bbl Carrots.- $\$ 1.25$ to $\$ 1.50$ per bag Celery.- Cumbers. Hot-house, $\$ 3$ per dozen. Cumbers.-Cal. Iceberg, $\$ 7.50$ per case;
Lettuce-
lorida Head, $\$ 3.25$ to $\$ 3.50$ per hamper; Leaf, 30 c . per dozen. $\$ 7.50$ per sack of
Onions. $\$ 6.50$ to $\$ 7.50$ prish, 100 lbs .; $\$ 5$ to $\$ 5.25$ for 75 lbs ; Spanish,
750 to $\$ 8$ per case. $\$ 750$ to $\$ 8$ per case.
Parsley. - Imported, $\$ 1$ per dozen Parsnips.- $\$ 1.75$ to $\$ 2$ per bag. Potatoes. $\$ 2.50$ to $\$ 2.60$ per b.
Turnips. 90 c. to $\$ 1$ per bag.

## Montreal.

Horses.-There was very little interest Some of the carters were said to be disposing of a number of animals in preference to carrying them over the winter
Prices show little change from time to Prices seing for heavy draft horses, weighing from 1500 to 1600 lbs ., $\$ 250$ to $\$ 300$ each; light draft, weighing from 1400 to 1500 lbs., $\$ 200$ to $\$ 250$ each; light
horses, $\$ 125$ to $\$ 175$ each and saddle and horses, $\$ 125$ to $\$ 175$ each and sadach. carriage animals,
Dressed Hogs.-The weather has been seasonable of late and with the colder temperatures has come some improvement in demand for diessed here quoted at try dressed light weights were quoted a
$\$ 22.50$ to $\$ 22.75$ per 100 lbs . while abattoir $\$ 22.50$ to $\$ 2.75$ per per 100 lbs .
Poultry. - The market for dressed
poultry is naturally firm at this time of poultry is naturally firm at this time o year, both favorable. Choice turkeys were 47 c . to 48 c . per lb ., good being about 2 c under these prices and common being 43 c to 44 c . per lb. Chickens were 28 c .
30 c . per lb . for choice, and down to 34c. for good, common being 20 c . to
23 c . per 1 b . Ducks were 30 c . to 35 c . per 23c. per 1b. Ducks were 30c. to
1b. and geese 24 c . to 27 c . per 1 b . Potatoes.-Some of the potatoes on
the local market lately have not been
altogether satisfactory, Prices however were firm, with carlots of Quebec stock
quoted at $\$ 2.25$ per bag of 90 lbs , ex track, with 25 c . per bag added for smaller lots, ex store.
Honey and Maple Syrup.-Prices are mostly nominal. White clover comb honey was quoted at 23 c, to 25 c , per 10 o section while white strained was 20 c
to 22 c . in 30 lb , pails. Buckwhea to 22 c .
strained honey was, 18 c . to 20 c , per 1 b .
Maple syrup was about $\$ 1.30$ to $\$ 1.40$ Maple syrup
per gal. tin.
Eggs.-All sorts of prices being de manded for fresh eggs and many qualitie far from fresh are being sold as fresh
Some stores were asking $\$ 1$. to $\$ 1.20$ per doz,, retail, but dealears were quoting what they called strictly new laid at 80 c . to 90 c . per doz. Selects were quoted at $\mathbf{6 5 c}, \mathrm{No} .1$ stock at 57 c . to 58 c . and No . - Butter.-No chang
marter.-No change took place in the Supplies of new made creamery are light and little enough stock is arriving from the country while quite a few shipments are going out from stock. Finest creamery
wes quoted at 68 c to $681 / \mathrm{c}$. per 1 b . for
held stock and $671 / \mathrm{c}$, for current te was quoted at 68 c , to $681 / \mathrm{c}$ - per lb . for
held stock and $671 / 2 \mathrm{c}$. for current re-
ceipts while fine creamery sold at $661 / 2 \mathrm{c}$. to ceipts while fine creamery sold
67 c , and dairy at 62 c . to 63 c .

Cheese.-Holders of choice September and Octoher makes were quoting $301 / \mathrm{c}$.
to 31c, for colored and Ic. less for white. to 31c, for colored and lic, less for white.
Grain.-No. 2 Canadian Western oats were quoted at $\$ 1.02$ while No. 8 and
extra No. 1 feed were $\$ 1$ and No. 1 feed extra No. 1 feed were $\$ 1$ and No. 1 feed
97 c . and No. 2 feed 95 c . per bu., track here.
Mlour- The market holds steady and Manitoba spring wheat flour was quoted
at \$11 per bbl., in jute bags, for country points, ex track, Montreal freights, and points, ex bakers, less 10 c , per bbl, for
spot cash. Ontario winter wheat flour was cash. Ontario winter, wheat flour ton bags, ex store. $\$ 9,90$ per bbl., in jute bags, white rye flour was selling at 88 to
$\$ 8.25$. Millfeed.-Carlots of bran were being
sold at $\$ 45.25$ and of shorts at 85205 ne sold at $\$ 45.25$ and of shorts at $\$ 52.25$ per
ton, including bags, ex track, with 25 c . wer $\$ 72$ to $\$ 74$ per ton for pure, mixe grain mouitte benis $\$ 08$ aiff dafiry feed
$\$ 56$ per ton, $\$ 56$ per ton,
Baled Hay-Prices continued steady, being $\$ 24$ to $\$ 25$ per ton for No, 2 timothy
hay, $\$ 22$ to $\$ 23$ for No. 3 and $\$ 21$ to $\$ 21,50$ for clover mixed.
Hides.-The hide market was fairly active, with steer and cow hides at 32 c ,
per 1 b, bulls at 25 c , calfokins at 75 c , and per 1 b ., bulls at 25 c ., calfskins at 75 c , and $\$ 3.35$ each and horsehides $\$ 10$ each.

## Chicago.

Hoge. - Heayy ${ }^{813100^{\prime} \text { to }} 813.455$



Cottle, Compared with a week ago:
 best feeders, about teteady;
euarter lower; bulls, teady:

## Victory Bonds.

Following were the value of Viritory Boods on the Toronto market, Satur day, December 13. Vi:tory, Bond maturing


 uring 1933, 103,
maturing $1037,103 / 2$ to $103 \%$.

Former Mayor Mitchel of New York vas "A good man had just died, he said ane after his job.
"Yes, sir, though the dead man hadn' been buried, yet this office-seeker cam to me and said, breathlessly
"'Mr. Mayor, do you see any objection
to my being put in poor Tom Smith's to my,
place?
'Why, no,' said I. 'Why no, I see
no objection it ithe
Washington "Star."

THE FARMER'S ADVOCATE.

Places.
Places I love come back to me like music, Hush me and heal me when I am very see the oak woods at Saxton's flaming
In a flare of crimson by the frost newly he spring in the And valley As for a kiss ungiven and long desired. I know a white world of snowy hills at A blue and white dazzling light on The larches and hemlocks and maples Their ice-sheathed branches tinkle in And iridescent crystals fall' and crackle With the winter sun drawing cold blue shadows from the trees.

Violet now, in veil on veil of evening, The hills across from Cromwell grow wood-thrush is singing soft as a viol In the heart of the hollow where the The primrose has opened her pale yellow And heaven is lighting star after star. Places I love come back to me like Mid-ocean, midnight, waves buzz In the ship's deep churning the eerie Seems like souls of people who were And I hear a man's voice, speaking, midnight, in mid-ocean, hour on midnight, in mid-ocean, hour on
hour to me. Scribner's Magazine

Among the Books A Historical Incident.
The visit of the Prince of Wales to
Canada has resurrected many stories of the Roval family, hence the following reat-grandmother, Queen Victoria, may ear repeating at this time. It is taken
 ince. I had o happen in my litectine, and it wat
clear duty to winness it. I was quitt aware that it was an occasion (I believe
the only one) on which a lady could be daughters of peeresses who were going heir tickets heing for different places in or the two li, whers who were then in
nd I had the luck of one for the transept.
hearing was out of the question, except
"The maids called me at half-past two that June morning,-mistaking the half-past three. As I began to dress the twenty-one guns were fired, which must have awakened all the sleepers in me, she said numbers of ladies were al feady hurrying to the Abbey. I saw the grey old Abbey from my window as I ressed, and thought what would have set upon it. My mother had laid out her pearl ornaments for me. The feeling was strange of dressing in crape, blonde and pearlsa tour in the morning. Owing to the delay I have referred to, the Poet's my place there. On reaching the gallery I found that a back seat was so far better than a middle one that I should have a pillar to lean against, and a nice wiches. The sight of the rapid filling of he Abbey was enough to po for. The stone architecture constrasted finely with the gay colours of the multitude. From north transept, the area with the whole and many portions of the galleries, and the balconies which are called the vaultings. Except a mere sprinkling of oddites, everybody was in full dress. In the The scarlet of the military officers mixed in well; and the groups of clergy were dignified; but to an unaccustomed eye curious effect. I was perpetually taking whole groups of gentlemen for quakers ill I recollected myself. The Earl ooked well from above, lightly flitting, about in white breeches, silk stockings The throne, an armchair with a round
cloth of gold, stood on an elevation of The first peeress took her of the area north transept opposite at a quarte
before seven: and three of the bishop ame next. From that time the peer and their ladies arrived faster and faster Each peeress was conducted by two o her seat, and the other hare and her ranged her train on her lap, and saw that her coronet, footstool and book were comfortably placed. I never saw anywhere so remarkable a contrast between None of the decent differences of dress which, according to middle-class custom, seem to be admissable on these grand ourt occasions. Old dames, with their
dyed or false hair drawn to the top of the dyed or false hair drawn to the top of the had their necks and arms bare and glittering with diamonds: and those necks and arms were so brown and wrinkled as to powder which was worse than what it powder which was worse than what it
disguised. I saw something of this from my seat in the transept gallery, but much more when the ceremonial was over, and ne peeresses were passing to their car-
riages, or waiting for them. The younger riages, or waiting for them. The younger
were as lovely as the aged were haggard. One beautiful creature, with a transcendent complexion and form, and coils
upon coils of light hair, was terribly mbarrassed about her coronet. She had apparently forgotten that her hair
nust be disposed with a view to it: and the large braids at the back would in no way permit the coronet to keep on. She
and her neighbour tugged vehemently at her braids: and at last the thing was
done after a manner, but so as to spoil the wonderful effect of the self-coroneting of all the peeresses. About nine the first gleams of the sun slanted into the Abbey,
and presently travelled down the peer-
esses.
effect of diamonds. As the light travelled each peeress shone like a rainbow. The nificence of the scene produced a strang effect of exhaustion and slectiness tront nine o'clock, I felt this so dis agreeably that 1 determined to withdraw my senses from the scene in orde
to reserve my strength for the ceremonia to come. I had carried a book; and read and ate a sandwich, leaning against "The guns told when the Queen had set forth: and there was renewedJani there was tuning in the fitted about the foreign ambassadors and their suites arrived in quick succession. Prince
Esterhazy, crossing a bar of sunshine was the most prodigious rainbow of all pearls; and as he dangled his hat it cast a dancing radiance all round.-At halt past eleven the guns told that the Queen had arrived: but as there was much to le done in the robing-room there was a long pause before she appeared. A
burst
from the orchestra marked her appearance at the doors, and the anthem I was glad' rang through the Abbey Everybody rose. and the holders of the first and second rows of our gallery stood
up so high that I saw nothing of the entrance, nor of the Recognition, except the Archbishop of Canterbury reading at one of the angles of the plat form. The cod Save the eveen or the organ swelled Toriously forth alter the Recognition
The services which followed were seen Dv a very small portion of those persent.
The acclamation when the crown was put on her head whe ye crown was and in the midst of it, in an instant of time, the peeresses were all coroneted,In order to see the enthroning I stood on he rail behind our seats, holding on by another rail. I was in nobody's way



When I was young most people seemed o consider it their duty to hold sternly at arm's length the people who worshipped particular sect. We were inclined to emphasize our differences in order to show
our loyalty to the Master whom we-and our loyalty to the
they, also-loved. Now we are trying t prayer that His followers may be "one,
in such open fellowship that the world may believe in His Divine mission.A few days ago I had the pleasure of attending a big "inter-church" meeting,
which filled Massey Hall, Toronto. The hairman assured us that the meeting wa Church Unit
be intended,
further that great cause. The speaker might differ in their religious opinions, bu
they all were one in expressing loyalty to Christ.
Nearly a year ago I wrote a "Ouiet Hour" on the burning question of Church Unity, and it went astray in the mail tempt. But at least I can say that we are growing more willing to see the
point of view of Christians who differ them from behind our grim line of defense we are trying to get into touch with them in order to unite our forces against our In to-day's paper I read that British rmor-plate could pierce the strongest Name which can reach the heart of every true Christian, through the heaviest ness. In Ch denominational exclusive Anglican, Methodist, Presbyterian meet in Him if we disagree in We can other matters. It is not in a hundred as Christians to adorn the doctrine of our own particular communion, but to adorn the doctrine of God our Saviour.
He is the Commander-in-Chief of all the regiments, and we can't be loyal to Him unless we are willing to reach out in ready fellowship to His friends-and He has soldiers. A beautiful spirit can discover glory in
the most unattractive kind of service. Florence Nightingale once declared that the work of angels was not scattering that a real angel was ready to scrub dirty floors and carry slops. The great pioneer nurse herself was not afraid of service.
Nothing that could make her suffering patients comfortable was "menial" in her
The world needs Christ, and we must
do our best to make His beauty visible do our best to make His beauty visible
to troubled nations. One of the speakers
at the inter-church meeting in Massey Hall, told of his recent trip through many lands. He said that China, Japan, India for light. Heathen religions could not give needed help. If we-who call ourof our Master's beauty of holiness the
people who do not know Him would soon
be won selfon. When we show them ugly
selfishness, instead of attractive loving
kindness, they turn away-turn away kindness, they turn away-turn away
from our Master. face is made every day by its morning the windows which open upon heaven."
Let us see to it that our first look every morning is through a window which opens
upon heaven. If our face is to shine like the face of Moses-the friend of God-
then we must speak to Him face to face
office which failed to reach its destination

- perhaps I forgot to stamp it. I think that a donation of $\$ 2.00$ from "Puslinch
Friend". was acknowledged in that last


## Dora Farncomb,

The lngIe Nook

 enclosing a letter to be forwarded to. anyone. .hlace
it in an a
(4) a semped envel it in a stamped envelope ineady to be sent on.
(4) Alow one tiont in this department for
answers to questions to appear.

DEAR Ingle Nook Friends.-I want to
talk about some things from which lack of space shut me off in Dec

Weren'

you glad to see that on the things specifically mentioned by attention, was the improvement of the common school? And surely he put the the development of these schools is even more important than that of the Universities, because 90 pler cent of the people
have to depend upon them for have to depend upon them for all the
educational instruction they will ever get He did not mean, of course, that the Universities should be neglected in the least, but only that they should not be
pushed on at the experse of the public
If the "People's Goverit Ontario does nothing more than carry
out this idea it will have justified itself out this idea, it will have justified itself,
for really, "when you come to think of it", education-right education for everyproblem that now confronts the worl
We need to get away from the notion that education has to do only with books. the best of them may be found the boileddown wisdom of the ages,-they not only instruct, they inspire; but one may very thing else. indeed, and very little anymeans to know how to live to the fullest and sanest degree: To know enough about the body and the laws of health to To have the judgment trained buoyant. one will know the wise path from the foolish one. To have the imagination and sympathies developed so that one shoes",-the secret of all unselfishness. and peoples to make one humanitarian. many doors of interest open, while, at the same time, specializing upon the one which one makes one's living. To realize that useful work is the only way to hap-
piness.- Is not all this to and to find the hours filled with inted", and the days all too short to accomplish V but is coming"-our education never ends a little " in spin site of through our lives,
more rapidly if we a great deal more rapidly if we try, there is nothing
like keeping wiscly busy to bring about advancement. At the same time we
must remember that it is very impor ant to get a good start. Many a man
or woman travels along all through life on the dead monotonous level, simply
through having had no impetus in early years. Many another man or woman
leads an intirested, energetic useful-
perhars brilliantly useful-life, because perhars brilliantly, useful-life, because
of the inspiration given away back in the little home school by some teacher who inderstrod her responsibility and had
ision and the power to inspire.
Realiziny aill this, we must

## que

questionable. It opens the way for
experts - specialists-on the teaching staff. "It broadens the "section" to (more sanitary) buildings, better equipment, better everything,-all of which
the children should have. The only block, so far, has been the expense, not only of building and equip-
ment, but of keeping up the vans to carry, ment, but of keeping up the vans to carry,
the children, morning and evening, the children, morning and evening,
and it must be confessed that, for the present, this is something that must be
well considered. In the long run, however, it appears that the Consolidated
School must pay, even in dollars and cents Wherever one is established, one of the teaching staff should certainly be an expert in agriculture and animal hus-
bandry; or such a man might be engaged to go from school to school within a certain radius. With such teaching i is not hard to imagine the improvement that might be brought about in the whol
crop and animal receipts of many a community even within a generation.
Proportionate, under right stimulus, must be the advancement in other things. insurmountable. There wasstacle is not many farmers thought the country could not afford a telephone and the rural mail-box; now very few would care to be without either. It may be the same
way with the Consolidated People did such wonderful things during the War that they learned their strength and now are afraid neither to conceive big things nor to carry them through.
Perhaps the Women's Institutes and U. F. W. will help, and everyone knows what they accomplish. Perhaps the Dramatic
Clubs will help.-Oh there is little caus Clubs will help.-Oh there is little cause
for anyone to complain of the tameness for anyone to complain of the tameness
of things nowadays,--there is so much to

I am not greatly enamoured of the idea of having the school and the Community Hall all in one. It seems to me that it is better for both children and teacher the be away, out of school hours
from the atmosphere in which they spend all their days. But I may be mistaken. The opposite certainly would be true if the school were so attractiv that both teacher and children loved the
spot with all their hearts,-loved enough to make them want to come back
at nights.-And certainly the financia at nights-And certainly the financial
saving in having school and Community Hall in one would be very great. Per waps, after all, the idea is well worth
working out. I I should like to hear your
idea about it.

S
PEAKING of Community Halls of course brings up the question of may remind, some of you, who attended
the Women's Institute Convention the Womens Institute Convention at that adjoining communities should "mix up" more It seems to me that that is
an idea well worth working out, and an idea well worth working out, and not
only for the reason she stressed,- that by such sociabilities the numbser of "old
maids" and "old bachelors") might be maids and "old bachelors" might be
lessened,-there is another that counts
for

## "Oh yes, we have a good time here,'

said a village worman not long arro, "and
the people are all nice, but we get almost
sick of loolina all sick of looking at each other. No matter A visitor to this place is a perfect god-
send." It's not necessary only to get all the
girls and boys paired off,but also to keep everybody interested, and so happiep. who the middle-aged men and women,
places, and all the real work of most waces, and whe the old men and old I have lived in both country and city,
and I know the advantages of both: for athough there are advantages in the
country that the city does not have, there
are also disadw are also disadvantakes in the country
that the city does not have, and vice
versa, which all goes to show, I suppose,
that we conn't have
thing the city certainly the city, hut one most country places, is the continuous new people.-You never go meeting ing-room of an evening without drawthe chance of becoming acquainted with Fomeone whe really may prove a close friend. For we really do go in "circles," as Pierre
de Coulevain said, do we not? know our own almost as soon as we weet them.
Now this continual meeting of new people is just what the inter-community and now that there are railways and motor-cars everywhere the thing should not be hard to manage. Try an exchange of concerts, and, perhaps, library
books; have inter-community debate and games and folk-dances; plan for a big picnic, with speakers, every summer: have ice carnivals every winter (unless a nd give prizes for the best the ice!) a nd give prizes for the best costumes
from each community. Couldn't you, also, work up a dramatic company in each community, and have it go about during the winter, when the farm-work
will not be interfered with munities within certain radius-each company to be entertained at suaper (with speakers) before or after the play? give them more poise, and fit them better for other broader public work which must be done.- "Must be done," for the
world is no longer a series of isolated villages-it has become one closely can any longer, rightfully, live unto him-

I had written the above, right down a the last sentence, when I went to hear ton University, who had come here under the auspices of our Western University. I wish I could give you every word of his the close, however, he elaborated upon write the last sentence of the paragraph immediately preceding this. -Henceportation have become so perfect, we must learn to consider man's duty to man, nation must learn to co-operate with nation, else this whole planet is in danger he said, there are newspapers in the control of big interests that are deliberately trying to stir up hatred against and strife
with other nations. (If you keep informed on current events you will not
need to be told their names.) This sort of thing, he declared, must stop, else years. Men must learn what real brotherhood means, and be more anxious to
serve than to acquire, else they must the penalty.

- But how will such a lesson be learned except through the heart? Now I must stop. This will reach and so I wish you a Merry Christmas.
Junia.

Where To Send.
Those who wish to send parcels of "Alberta, should address them to the Lethbridge. Alberta" marked on outdistributing center or Relief work, A at this place, and all possible measures are being taken to prevent over-lapping. McAre, Regrepay express charges. Mrs. she thon is well in hand at that place. parcels and money, mentioning especially C. G. S.", who sent $\$ 1.00$, neither giving any further address:

Worth Thinking Over
"That, is religion to me-Christ
"If we are ever going to develop a
decent human civilization here in Canada we shall have to hold some nercial one of con mercial one of taking all we can get
from our fellow-citizens." $A$. Steven

## FOUNDED 1866 the city, but on ly has as yet "over' is the continuous ver go into a drawng without running rove a close friend. " "circles," as Pierre as soon as we meet al meeting of new or the rural districts are railways and ere the thing should nd, perhaps, libraty community debates kers, every summer; iving away the ice!) the best costumes ity. Couldn't you, ty. Couldn't you, matic company in hen the farm-work with, to all the com- rtain radius-each ertained at supper e or after the play? arpen people up, and fit them better public work which st be done," for the a series of isolated come one closely fully, live unto him above, right dowr when I went to he f. Conklin of Princ ad come here under vestern University. re so fine. Towards hat had made me ze of the paragraph ng this. -Henceme so perfect, we man's duty to man, to co-operate with eplanet is in danger rspapers in the con- hat are deliberatel d against and strife vents you will not names. $d$ d, must stop, else - within a very few more anxious to a lesson be learned - This will reach s-the heart tim Merry Christmas.

o Send
oo send parcels o ess them to the marked on out Relief Work," as been established event over-lapping,
ress charges. Mrs. us word that the of you who sen
ntioning especiall $\$ 10.00$, and "Mrs.

## ing ove to to

Ring to dovelop,
ization here ve to hold som the base com
ag all, we can ge zens." A. A. Steven has shown the

December 18, 1919
world that agricultural minds are bigger than farms or even produc

Prevention of Accident One of the recent items of news in the of Quebec, poured mythelated spirits on her kitchen fire and was ataly burned. it can oil, or spirits of any kind, should coal oil, or spured directly on a smouldering never. In a flash the fire may run up into the can and explosion-probabnfortunate the house and the result. If such helps must be enlisted to get the fire going, pour the liquid on some splints, quite away from
Also, when a coal-oil stove is used, care Also, whe be taken to keep it very clean and
shold in good repair. This will help to prevent explosion, an accident that occasionaty happens with in a recent paper records the death of a farmer from drinking wood alcohol. Wood alcohol is a poison. Could not some women's organizations petition that its name be changed, and that the label of the bottle in which head that should designate all phials in which poisons are contained? Every little while one reads of someone who has alcoholic beverage, and paid the penalty. Now that "liquor" itself is prohibited there is more danger than ever of such accidents. Th
prevented.

## Seasonable Cookery

Meatless Mince-mea cup cooked rice, $\quad 1 / 2$ cup chopped $1 / 2$ cup sugar,
$1 / 2$ cup chopped suet,
$1 / 2$ cup, chopped
dates, $1 / 2$ cup chopped suet, $\quad \begin{aligned} & \text { dates, } \\ & 1 \text { chopped apple. } \\ & \text { cup coffee, }\end{aligned}$
. Salt and all kinds of spices to taste. Let simmer for 2 hours.

Maine Doughnuts.
1 cup sour milk, $\quad 1$ teasp. soda, 1 cup sugar,
1 egg, $\begin{gathered}\text { sablesp. butter, } \\ \text { nutmeg, } \\ \text { Flour to roll soft },\end{gathered}$ Fry in deep fat, smoking hot.
New England Doughnuts. $1 \begin{array}{ll}1 \text { dessert-spoon } \\ \text { thick sour cream, } & 1 \text { egg beaten in } \\ 1 \text { rounding cup }\end{array}$ $2 / 3$ cup thick sour
milk, $\quad \begin{gathered}\text { sugar, } \\ 2 / 3 \text { teasp. vanilla, }\end{gathered}$ $\begin{array}{ll}\text { milk, } \\ 1 / 3 \text { cup sweet milk, } & 1 / 3 \text { teasp. salt, } \\ \text { Pinch of ginger } .\end{array}$ rounding teasp.
soda dissolved in the milk. Knead lightly and roll $1 / 2$ inch thick Make into doughnuts and fry in howdere

turning many times. Roll in pow sugar when done. This makes 3 doz the fat is hot enough when they are put in | Fig Pudding. |  |  |
| :--- | :--- | :---: |
| $1 / 2 \mathrm{lb}$. chopped suet, | $3 / 4$ cup sugar, |  |
| $1 / 2 \mathrm{l}$ (scant) figs | 2 well-beaten |  |
| finely chopped, | eggs, added |  |
| 2 heaping cups | last. |  | heaping cups

bread crumbs
soaked in $1 / 2$ cup
Mix well and steam four hours. Serve fith hard or foamy sauce.

Christmas Nuts and Fruit.
with walnuts, fondant, or peanut butter
then roll in, sugar.
nuts or almonds (scalded and the skins nuts or almonds (scalded and the skins
rubbed off,) in butter, then salt slightly,
, Serve hot or cold. Make a tutti-fruiti
by putting dates, figs and nuts through a grinder. Soften the mixture with lemon wice, press into small cakes and roll in

> Mock Pickled Peaches
> Take $11 / 2 \mathrm{lbs}$ sugar and $1 / 2$ cup vine-
gar and boil with 1 tablesp. whole cloves tied in a bag, and 3 sticks cinnamon
When the sugar is dissolved and the syrup has cooked 5 minutes dropsin some large fine apples, peeled, cored and quartered
just enough to fill the surface of the syrup just enough to fill the surface of the syap
well. Cook until transparent and take down until thick and pour over

THE FARMER'S ADVOCATE

The Scrap Bag Break the breast bones of the turkey
carefully before cooking, and be cure to carcfully before cooking, and be sure to
tie the legs and wings neatly to the body Let the oven be very hot at first to sear
the outside and keep in the juices, then lower the heat somewhat. Baste fre quently.

To Avoid Slipping Walk so that the weight will fall chiefly you will greatly lessen the danger of falling on smooth icy roads or streets.

Keeping the Feet Warm. Wear insoles cut from an old felt hat,
or piece of thick cloth or flannel during cold weather, and you will find a great ifference in the comfort of your feet.
If subject to cold feet at night wear loose subject to cold feet at night wear loose
bed-socks, knitted (do not need a heel) or made of soft flannel. A doctor said the other day that every woman should wear woollen pull-overs that come righ
down to the ankles, when out of door down to the ankles, when out of doors

Care of Shoes. Nothing shows the lack of care soone treated they retaliate by looking thei ugliest. Our footwear should always be
treated with every consideration and the treated with every consideration. and the
difference between "treed" and "untreed" shoes cannot be too much emphasized. This applies not only when the shoes are in constant use but when putting then away. The winter shoes should be
brushed and wiped clean. Calfskin and other heavy leathers should be rubbed with mutton tallow. After the grease has soaked in they should be wiped of with a piece of fannel. Kic shoes leathers be rubbed with cream each shoe should be "treed" or stuffed with newspaper, then wrapped separately in tissue paper and boxed. The original shape of the light slippers can be maintained paper before they are wrapped up in tissue paper and

## The Windrow

A marble bust of the Prince of Wales is to be erected in
Building at Ottawa

Adverse critics of the Bulgarian Peace Bulgarians against the allotment o Lerritory made by the Supreme Council in is fomenting the beginning of

Field-Marshal Viscount Allenby ha been appointed to succeed Sir Reginal
Winder
Ningate as High Commissioner for Egyp Wingate as High Commissioner for Egypt He is regarded as a man of great tac
and wisdom, he understands the Arab and other orientals, and his war recor A book containing nine of Shake-
speare's plays was recently sold in Philaspeares
delphia for $\$ 100,000$. It was published
in in London by Thomas Pavier in
longed to Edward Gwynn, a well-known English collector of the 17th century,
found its way into Germany, returned to found its way into Germany, returned
England in 1902, and came to Providence R.I., subsequently being brought to
Philadelphia. It bears Edward Gwynn' Community work is being taken up in the United States with a right gond - in The program- Building up of libraries, etc. club houses, baths and comfort stations
community singing, pageants, dramatics colk-dances and dinners; athletics and
promotion of physical efficiency large
perols, parks, churches, use of the schools, parks, churches,
development of hospitality and grow Soldier, Actor, Farmer.
Some of our readers may remembey number of poems by Rupert Mar (t) which appeared in these pages before th


## Westclox

WHEN you wind and set Big Ben at night, you put an inexpensive clock on the same job a high-priced watch held down all day.
The responsibility is even greater! Your alarm not only must keep time but it must call you on time.
Westclox are good timekeepers and alarms combined. They're handy, dependable household clocks. More than one in a home is getting to be the rule. Several clocks save many steps.
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the only to do your own sewing.
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Deafness


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The Keystone Dehorner 54
0 The Department of Agriculture has their mat dehorning cows ards
then
STO Ning vilue. The KEV
 for the porpose. Write fo
R. 19 . McKENN

Apply to the Farmer.

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DE KOL. This bull is eleven months old and a good one
E. F. OSLER

Bronte, Ontario
Imported Scotch Shorthorns $\begin{gathered}\text { for Sale-three imported bulls, one yearling, } \\ \text { one two-year-old, and our thiee-year-old herd }\end{gathered}$ ire; also a choice two-year-old Orange Blossom of our own breedng and three well-bred bull calve
bout a year old. Would consider exchanging an imported bull for ${ }^{\text {Eoctch }}$ females
W.

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AN_OPEN LETTER TO THE FARMERS OF ONTARIO
GBNTLEMEN
TORONTO, DECEMBER, 13th, 1919
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V

Janad

Hon. T. A. Crerar, ex-Minister of Agri Hon. A. A. Crerar, ex-Minister Unt
culture and President of the United
Grain Growers' Company, visited New Grain Growers' Company, visited New
Brunswick last week. The visit is Brunswick last week. Ae thawing togethe
$*$
$*$
$*$
$*$${ }_{*}^{*} \quad{ }_{*}^{*}$ man are much impressed with the possi bilities of Northern entarion the asking for better roads, better fire regu lations, and extension of the T. \& N. O Railway.
R. H. Halbert, Pres. of the U. F. O., was elected to the Ontario over Neil D. McKinnon, Inde pendent Unionist.
Farmers in the Lake St. John region, Upper Quebec, are co-operating to build
and operate a railway from Normandin to the Saguenay River at deep water Another group is co-operating to boint on the C. P. R. near Maniwaki in the County of
caminque.
Premier Drury of Ontario, in an address at North Bay, forecasted local option for taxation, so that land-tax only, with exception for improvemen
arranged for when desired.

The Board of Commerce declared, at Winnipeg, that profiteering is not nearly as common as has been charged.
also declared that thousands of children and invalids of the poorer classes are being starved for want of milk and condensed milk demand may be taken advantage of. Alderman Wiginton, of
Winnipeg, suggested an embargo on Winnipeg, suggested an
butter as a remedy.
A mass meeting of Jews was held in Massey Hall, Toronto, Dec. 9th, to pro-
test against the massacre of Jews in the Ukraine, and to appeal for help. On the platform were speakers of every de-
nomination including Bishop Reeve nomination, including Bishop Reeve
(Ang.), Father Minehan, Mayor Church, (Ang.), Father Minehan,
and Mr. H. H. Dewart.

Provincial Medical Officers of Health, I. W. S. McCullough, Toronto, has warned the physicians of the Province to keep watch for sleeping sickness,
port all cases to the Department.
The Farmers' Club of Mt. Elgin, Ont. is raising a movement to kill of sparm.

*     *         *             * the United The soft coal strike in the United
States ended and the mines began shipping on Dec. 15, the miners having accent. increase and investigation into grievances.
Deputy Bentini in the Chamber of group in favor of a Republic in Italy.
Many Sinn Feiners, including Thomas Kelly, M.P., were arrested in Ireland on
Dec. 11th

A bill providing for local option
prohibition will be introluced in the
British House of Commons as a private bill.
Viscount Milner, Sec. for the Colonies,
is now in Egypt with the 17 members of the Commission appointed
the unrest in that country.
The Peace Treaty, declared by Senator
Lodge to be "killed" so far as the United States was concerned, after the Senate' triple vote of rejection, was not so easily
put out of business. Al nost immediately put out of business. A most immediately
atterwards articles appared in nearly
every paper in the United States urging compromise, and papers of all complexion look forward to ratification of the Treaty
at the present session of Congress.

## Serial Story

"His Family.
(Serial rights reserved by the Farmer
Advocate and Home Magazine.)
Synopsis of Preceding Chapters,
The central figure in this story is
Roger Gale, sixty years of age when the story begins. He had grown up in the to New York, where he finally got into business, became fairly prosperous, mar-
ried, and became the father of three daughters: Edith, who, when the story opens, has been married for some years,
and is the too devoted mother of four children; Deborah, a teacher, principal of one of the big schools of the city;
and Laura, the wild, capricious one, who announces her engagement to a young
man named Sloane. With time at last to rest somewhat on his oars, Roger Gale finds himself, at sixty, a somewhat lonely
widower living a life apart from that of widower living a life apart from that on
his children. He realizes suddenly that he does not even know them. He
determines to "find them out", and the story is carried on in a fascinatingly interesting way. Chapter IV gives a
conversation between Deborah and her father, in which her suspicion of young
Sloane as a suitable life-partner for Laura is unconsciously intimated. Chapter V-
VIII tell of the birth of Edith's child and Laura's very fashionable wedding
which has almost taken all of Roger's bank denosit, so that he has to go to work harder than ever in his Clipping Bureau. Looking into the character of his children later self in Edith's dropping of all out side interests for the sake of her family, words, " you will live on in our children's distress over the execution a hot-blooded Italian lad who had been one of her pupils, Roger begins to sef
that there is much that is "personal' 0 his daumhter's work, and to endors her idea that the solution for most of the woes and mistakes of life is a good educa tion for every child. She invites him He is astounded at the great, surging oresides, settling disputes and solvin inroblems not only in the school but in in the strange, foreign, tenement distrit rave cripple boy (who is living in a house reeking with tuberculosis), and Isadore reedom, "the flame," who has found position as ibrarian. Shartly afterward Deborah breaks down in health and is attended by Allan Baird, the doctor who

## CHAPTER XIII

Deborah's recovery was rapid and deing up and making light of her wallness.
in the third day ho dism inser the In the third day she dismissed her nurse, office he found gathered about her bed hot only her stenographer but both her issistant princicals. He frowned severely and went to his room, and a few minutes the called to him, and he came to her eectside. She was lying back on the ,illow with rather a guilty expression. "Up to your old antics, eh?" he re-

THE FARMER'S ADVOCATE
see. Its the last week of our school year
had there are so many little things tha
have to be attended to ti's imply no
"Humph!" was Roger's comment. "It now or never with you," he though
He went town to his dinner, and when he came back he found her exhausted. It
the dim soft light of her room her face looked fushed and feverish, and vaguel heten to was in a mood where she migh
He felt her hot. dry
histen on his. Her eves were closed she she hand on his.
was smiling.
"Tell me the news from the mountains, she said. And he gave her the gossip o
the farm in a letter he had had from Ceorge. It told of a picnic supper, the
first one of the season. They had had in the usual place, down by the dan peach-down by the big yellow rockthe one you call the "Elephant.". A
Roger read the letter he could feel his Roger read the letter he could feel hi
daughter listening, vividly picturing to aughter listening, vividly picturing to creek, the shadowy firs, the stars above and the cool, fresh tang of the mountain night.
"After this little sickness of yours said, "I feel we're both entitled to a goo long rest in mountain air."
"We'll have it, too," she murmured, They're all the medicine you need." He paused for a moment, hesitating. But it with you," he said, "is that you've let yourself be caught by the same disease town. You're like everyone else, you' tackling about forty times what you ca do. You're actually trying not only to teach but to bring 'em all up as your own this is where it gets you." Again he halted, frowning. What next? "Go on, dear, please," said Deborah,
in demure and even tones. "This is very interesting.
"Now, then," he continued, "in this you to give it up, I've already seen to much of it. But so long as you've got it nicely started, why no give somitod of yours, for example - capable young women, both. You could stand right behind 'em with help and advice "Not yet," was Deborah's soft reply. She had turned her head on her pillow and was looking at him affectionately.
"Why not?" he demanded. "Because it's not nicely started at all. There's a plodder, feeling my way along, And what I have done in the last ten years is just coming to a stage at last where I can really see a chance to make
it count for something. When I feel I've done that, say in five years more-" "Those five years," said her father, "may cost you a very heavy price. own grew quickly serious.
"I'd be willing to pay the price," she replied.
"Whut why?" he asked with impatience. Why pay when you don't have to? strength for twenty years' work later on? You'd be a different woman!" "Yes, I think I should be. I'd never
be the same again. You don't quite be the same and, you see. This work of mine with children-well, it's like Edith's having a baby, You have to do it while you're young. growled.
"What do you mean?" He hesitated
own? Again she turned her eyes toward his,
Again she turned her eyes toward his,
then closed them and lay perfectly still. "Now I've done it," he thought anxiously She reached over and took his hand. she said. A little while later she fell asleep.
Downstairs he soon grew restless after a time he went out for a walk But he felt tired and oppressed, and
as he had often done of late he entered little "movie" nearby, where gradually the pictures, continually flashing out of the dark, drove the worries from hi mind. For a half an hour they held hi
gaze. Then he fell into a doze. He wa roused by a roar of laughter, and straightening up in his seat with a jerk he looked
Something broadly

Crop and Trade Conditions Throughout the Dominion

Complete Reports Submitted on Conditions in the Various Provinces of the Dominion at Annual Meeting of the Bank of Montreal will be of Special Interest to Mercantile and Farming Communities

Montreal, Dec. 18th, 1919.
he Annual Meeting of the Bank of Montreal complete reports were submitted by the Superintendents of the Bank, dealing with trade and farming conditions in the various Provinces of the Dominion. These reports cover the particular operations carried out in the various sections mercantile and farming communities desirous of keeping in touch with the important developments that are occurring throughout Canada

We quote from the different reports as follows:

Qubec.
The cut of lumber during the past
season was not as large as usual. Pracseason was not as large as usual. pracconded out. Prices were high.
conditions show improvement arger cut is looked for this winter. The demand fur pulpwood from the
United States was uneven, but stocks have been well disposed of, and high The paper mills of the Province con tinue working to capacity, the demand for
newsprint and better qualities of print newsprint and better qualit
papers exceeding the supply.
Manufacturing in nearly all lines has been generally satisfactory, although pro-
duction is still limited by scarcity of skilled labor and raw materials.
Hay and cereal crops were average. ered from rot. Pasturage was good, and dairy products will show an increase. With the exception of asbestos, there
is little mining done in the Province. Asbestos prices are go
are well maintained.
The fur business has been good, and
oot and shoe manufacturers find diffiulty in supplying the demand
Shipbuilding continues active, a numaunched from different yards during the

The wholesale and retail trade was
most satisfactory; collections were good and failures show a decrease.
There have been no exceptional expendior Provincial Governments and municipalities have limited disbursements to necessary works. Practically no railroad Thstruction was undertaken.
There is very little speculation in real
state; values and rentals are both high. General conditions, both in cities and rural districts, are good, with no apparent slackening in trade since the termination of the war. The housing problem is everywhere acute, and those dependent
on a fixed income are seriously affected y the abnormal cost of all necessaries.

## Ontario.

Manufacturing in Ontario has been limited only by shortage of supplies and
disturbances in labor. Government credits for goods sold to Europe have stimulated manufacturing, and domestic
demands have been insistent. New indemands have been insistent. New in-
dustries have been started, and a number of successful manufacturing concerns in the United States have been making enquiries with the intention of locating Ontario.
Ontario farmers have been steadily bettering their position in recent years,
nstalling modern equipment and im instaving modern equipment and im-
proving their modes of living. The past year has been one of fair crops with high
prices. A wet spring was followed by prices. A wet spring was followed by
an exceptionally dry summer, and grain an exceptionally dry summer, all whain,
crops, with the excetion of fall weat,
fell below the average. Root crops were good. corn and tomatoes were a recor
gield. the season was poor for all frit
except grapes. Cheese production showed a falling off. There is a shortage of hogs cattle situation is somewhat unsettled Owing to the limited amount of feed avail The production of lumber has been
seriously reduced owing to shortage of labor. 1919 has been an excellent mar keting year, ${ }^{\text {Pr }}$ with heavy sales to Great Britain and the United States, and a lumber. Prices have been unusually high, there is no accumulation of stock on hand, and notwithstanding the scarcity
of labor and increased costs of operating the year has been a successful one. Pulp and paper have been in large and in
creasing demand, with soaring prices for creasing
the latter
Mining production during the year ha been curtailed. The demand for nick the silver output. Both these situations are improving, and larger production ha

Both wholesalers and retailers report it easy to sell goods. ened bad debts negligible.
Larger expenditures were generally effort to overtake works postponed durin the war.
Population shows a general increase
with a tendency to drift to urban and manufacturing centres.
Values in real estate are steadily in creasing. So little building took plac during the war that there is now a genera and in consequence there is much activity in real estate and an improvement in the building trades.
There has been a continued extension in hydro-electric power during the past year, and works at Nipigon and Chippew will within the next two years add vet largely to the available power for mant acturing and other purposes throughout Ontario.
Generally speaking, the year has been
ne of great activity throughout the

Overseas Record.
"The record of the staff of the Bank verseas showed that 1,405 members of
he staff had served with the Of this number 1,182 had survived, of whom 663 have already been reinstated. Of the total who joined the colors it was fact that 223 or 16 p.c. fave their live for their country. In paying tribute to them, Sir Frederick said:
words of tongue or pen can fully express our pride in, or our admiration must suffice to say that their names are not merely written in the records of this Bank and in the history of the Empire they served so well, but live on far away,
woven into the fabric of other men's lives. Such dead are honored with unchallened admiration.'
 Coordened adoveriosenens will be ingertad


 dorititing olumans
BRERDNG CoCkERES. EROM HITH-
 CHOIEE BARRON S.C. W. LEGGORN
 FOR SALE-CHOICE COCKERELS, BRED



 Mccombion Renainits Ont.



 PURE RRRED SOTCOTH COLLIE PUPPIES
 PEKIN DUCKS, 9 TO 11 LBS. $\mathbf{8 5}$ AND 8 si


Crate-Fattened Poultry
 HENRY GATEHOUSE \& SON

WANTED Crate Fed Chickens
Large Hens Alive or Dressed
Write for price list
WALLER'S ${ }^{702}$ Topadina Ave

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Pure-Bred Stock The Annual Sale of pure-bred
stock (beef breeds), will be held
in the Winter Fair building

Wednesday, 3rd March, 1920 The sale is under the auspices of culture and the management of the Entries close 15th January, 1920
For further particulars apply to:
J. M. DUFF, Secretary, GUELPH

One of the Best Farms


F.M. Passow,

Eustis, Que.
comic had been flashed upon the screen
and men men and men and women and children,
Italians. Jews and Irish, jammed in close
abin about him, a dirty and perspiring mass
had burst into a terrifice they were suddenly tense againan and watching the streen in absorbed sesusponse,
while the crude passions within themslves were the cerude pasions within themselves
And
Reged upon in the glamorous dark. And Roger soanned their faces one
moment smiling, all together as as hourch
 mawhush, sentimental, softt, then sud-
denly scowling twitching deflysiowing, twitching, with long rows
of animal eves.
But eager-e agere all the time! Hungry people - yeser, indeed!
Hunnty to Hungry for allt the pood yese indeed!
town and flit thins in the town, and for so many bad things, too?
On one who tried to feed this was no end to their demands mas one woman's sife to them? Deborah's
big family' big amily!
Edith came to the house one afternoon,
and she was in Dehobatid and she was in Deborah's room when hee
father returned from his convalescunned over at at hast, she ofice. Has leaving for the mountains.
she ou tearn your leson, Deborah dear,"
 "II can't get of for tor
And when can't you"" Edith demanded camps and baby farm spoke of fresh air
con camps and baby farms and other works, have to leave it to onemebodrevels simply in no condition I." sele crie
 Worked your nempest to a trazzede altreadye Why can't yoư be sensible?
to think of yourself
sitl
,
 "Yees, I should, while there is still time! Just now you look far from it! It's
exactlow extaty a s. ${ }^{\text {and }}$ was sying! If you keep
an as youre going youlil be an old woman


 like a hag than Iry hot to took any more ${ }^{\text {Roger }}$ Thallowed Edith out oo the thent rom. she declared to him in triumph home, said. would tht have done ity," her father said I I Iave you that remark of
Biirrds in strict confidence, Edith - , of retort "sumpose, "yous her good sod humored
 .Wel!, Me refected uneasil, after she
 a fine mess or this whole affair
After dinner he went trat
room, but through the open doorvay he
culsht at slimush caught a g gimpse of his daughter which
made him nostinctivelv draw bher bolt upright in her bed sternly sitt ting


 saw heard him coming upstairs Roger
his daughter frown, but she ocon
 evenning.", "it? Gecing, much better this
"Are you? Good," he answered, and he started to pull up an ensy chair and I
was hoping I could stay awhile Ive been waving one of those ong mean days - ",
hait an litte rather voun wouldn't,"

 "And i realuy dont a thint the sile nee.
need of your dropping in thersmany she added. "I'm so so much better' Bair logked at her a moment
"Right CO , he hanswered sowly. all up to-morrow ninht, ", stins
Roger ollowed him downstars. "Come into my den and smoke a
cigar!" he proposed in hearty ringing
cones, Allan thanked him and came in cigar!, he proposed in hearty ringing
tones. Allan thanked him and came in,
but the puzzled expression was still on his face, and through the first moments Roger's fecliny of guilt increased, and he
cursed himseif for a meddlesome fool
know," Allan slightly turred his head hing roger reddened a a ittere. "The wors medaling women is that you get to be one in ", he cleared his throat-"IT the fact foot in it iteared haisd," he said. "IT we pat fool enough , the other day to quote you to "To what effect?"
"That if Deborah keeps on like this Allan an oid woman at thirty-five." Allan sat up in his chair:
"Was Edith here this afternoon?" "She was," said Roger
Baird had a
Baird had a wide, likable, generou Heuth which wrinkled easily into a smile He puffed a little cloud of smoke, looked over at Roger and chuckled aloud. And
Roger chuckled with relief." "What a deger chuckled with relief.
"I thought of trying to explaid to,", Baird "Don't, said Allan. "Leave it alone It won't do Deborah any harm may may
even do her a little good. After all, I'm her physician-"" "Are you?" Roger asked with a twinkle,
"I thought upstairs you were dismissed." "Oh no, I'm not," was the calm ing. Roger's liking for Baird was grow ng fast. They had had several little talks during Deborah's illness, and Roger
was learning more of the man. Raised on a big cattle ranch that his fathe had owned in New Mexico, riding broncos on the plains had given him his abound
ing health of body steadiness and sanity in all this feverish city life. "Are you riding these days?" "No," said Roger, "the park is tor hot -and they don't sprinkle the path as they should. ''ve had my cob sent
up to the mountains. By the way " he added cordially, "you must come up there and ride with me,", with a little inner smile he added dryly to himself," "He's getting ready to meddle again." But whatever amusement Baird had in this thought was concealed behind took his leave. ". little glow of expectancy, "if Edith wil only leave me alone, she may find I'n
smarter than she thinks!"'

To be continued.
Questions and Answers Miscellaneous.
Removing Stain from Table.
by a hot plate, from a fumed oak table?
Ans.-Fold a sheet of blotting paper
a couple of times (making four thicknesses
and put a hot smoothing iron thereon
Have ready at hand some bits of flannel
also folded, and made quite hot. As
soon as the iron has made the surface
etc., and go over the spot with a paper,
leave a coating of the substance eng to
with one of the hot peices of flannel rub
the injured surface. Continue the rub
bing, using freshly warmed clothe unti
the whiteness leaves the varnish or polish.
The operation may have to be repeated

Dale Dates.
fordville, Ont. Holsteins.
Dec. 18, 1919.- Southern
stock, Ont.
Dec. 18, 1919.-Brant District Hol-
stein Breeders' Salc.
stein Breeders Sale, Brantford, Ont.
Jan. 8,1920 . North \& South Bruce
Shorthorn Breeders' Sale, Paisley, Ont Jan. 15, 1920.-Ontario Duroc Jerse
Breeders' Sale. Chat Feb, 4, 1920 . -Miller ax I) ryden.-
Shorhorn,

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ing. Wife to be capable housekeeper and dairy woman. Highest wages paid to couple filling require ments. Also good residence with modern improvements and other allowances. Write, giving full particulars and references as to past

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good pedigreed (ENGLISH) FROM EXTRA Slanworth, Ont.
SoOTCH COLLIE PUPPIES-MALESS
dollars, females five. Bred VANTED - EXPERIENCED SINGLE MAN
to work on farm by the Year. Highest wages
willing worker. Robt. Houston. RR No WANTED-SINGLE FARM HAND TO ENGAGE by year; must be able to do all kinds
farm work. Apply stating experience. age and
wages expected to David A. Ashworth, Denfield, SALESMEN WANTED Lubricating oil, grease, paint, specialties. For
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a winter panacea for coughs and colds Algonquin Park cannot be equalled. wo thousand feet above the sea it is
always dry and cold, and usually bright, and no matter how cold it is the man with a sweater will never suffer. Days spent
in snow-shoe tramps, through primiin snow-shoe tramps, through primi-
tive forests, in the breathless flight of the toboggan or ski, and in the ring of steel
against the ice-bound waters of some lake; together with evenings spent in social
converse around the cosy warmth of an old fashioned log fire; these slip away unnoticed but those who have once ex-
perienced them return to their avocations with renewed energies, with hardened muscles, and a grateful memory that
forever blots out all thoughts of the owned and operated by the Grand Trunk Railway offers comfortable accommoda-
tion at reasonable rates tion at reasonable rates. For all par-
ticulars apply to N. T. Clarke, Manager.
Algonquin Park Station, Ontario.


## 

December 18, 1919
The Old Iron Plow.
by a. c. WOon, author of "old days on
the farm." It has not been used this many a day, It. was cast aside long years ago, Yet the pioneer farmer, gray and old Will not let that rusty old plow be sold, happened past
And envious eyes at the old plow cast
To him it is junk to be bought by weight To be scrapped is the stern decree of fate
He cannot understand why such delay In shifting old metal from out the way.
But the pioneer in his walks around By that plow-and lingers with thoughHe sees more than metal in that old plow.

It brings back memories of days gone by, When life was before him and hope was When his step was light and his arm was When the wor

It recalls a far day when he gained a prize, And the joyous glow in his young wite's When eyeld he won "First" at the plowing From the many plowmen who faced the scratch

A vision appears of a broue-eyed boy
Whose coming had brought to his home He sees him a child and remembers how His first-born had toddled by that old

And in thinking back to a bygone day,
When the tree-stumps stood in bold array When the tree-stumps stood in bold array
On his fields - he cannot forget, On his fields- he cannot forget, somehow,
The homage he owes to that strong old And though he is aged and bent and gray And nearing the end of hife's little day,
He still firmly clings to this solemn vow, 'While I live they shall not 'scrap' that old plow."
Questions and Answers.
veterinary
Lame Bull
imes, but until recently I could not find anything wrong with his limbs. Now feet are sore and swollen considerably.

Ans.-The symptoms indicate foul in the feet. Keep him in a thoroughly Keep poultices of warm linseed meal to the feet until the acute soreness disappears. Then cleanse thoroughly, and if there be any raw surfaces between the daily with 1 part carbolic acid and 30 parts sweet oil.

## Miscellaneous.

Shavings for Redding
I have access to a supply of shavings from a planing mill. Will they be harm-
ful to the soil if used as bedding? $\mathrm{J} . \mathrm{M}$. Ans.-Shavings are used a good deal harmful effects having occurred from applying them to the soil. They will not supply quite as much humus or plant
food as could be obtained from straw. Cutting Wood off a Rented Farm. 1. I am on a rented farm, and the greement states that must draw the wood each year for the owner. Is he
privileged to sell? If he does, can I be made to draw more this year? can 1 be 2. Has the owner a right to cut wood for sale out of a bush while I have the contrary in the lease. 3. I have a mare about 12 years old
that gets very poor in the winter. The that gets very poor in the winter. The
veterinarian thinks it is chronic inligestion. What should I feed her?
Ans.-1. We would consider that you


GIVE a man what he wants-a Gillette Safety Razor! There is no worthier gift to be laid on the altar of Friendship at this season than the razor which helps a man so satisfactorily 365 days in the year- 366 days next year!

## $\$ 5.00$ the Set

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While selecting Gillette Safety Razor sets for your friends and family, don't overlook your own needs!

The best dealers in every locality
sell the Gillette Safety Razor, $5 \%$
made in
canada
rinot - Cillette $>$ man
KNOWN THE
would be obliged to draw only the
of wood used as fuel on the place.
2. We can see no reason why the
owner of the place cannot cut and sel
tenant had an agreement that no woo
was to be cut of the place during the
term of his lease.
old horse in condition. Have the teeth examined, as it is possible that they nee dressing. Do not feed much hay. A occasional feed and roots are good feeds to add to cake, ation. The grain should be fed ac
the ration cording to the amount of work done.

Reciprocity in Swine Breeding.
Many of the Canadian breed associa-
tions are endeavoring to gred associations
in registration with the b. W. Wade, Secretary
across the line. R. W.
of the Canarian Swine Breeders' Association, has given us the following agreement
made between. the Canadian Swine Breeders' Association and the American
Berkshire Breeders' Association. This arrangement should be of bene 1. Animals from the United States, American bred or imported from Great Britain, sold to a resident of Canada must be recorded in the American Berk-
shire Record in the name of the Canadian purchaser. American certificate of registration must give date of sale and delivery and, in the case of females, service
certificate, if bred certificate, if bred. It is understood
that animals, on entering Canada, must be recorded in the Canadian Swine Breeders' Record. 2. Animals from Canada, Canadian bred or imported from Great Britain
sold to a resident of the United States must be recorded in the Canadian Swine Breeders' Record in the name of the
f registration must give date of sale and delivery and, in the case of females,
service certificate, if bred. It is understood that animals, on entering the United States, must be recorded in the American Berkshire Record.
3. It is understood that the record ng of ancestors to complete pedigrees
is to be discontinued immediately by the American Berkshire Association and the Canadian Swine Breeders' Association, respectively.
4. It is further agreed that the
Canadian Swine Breeders' Association will not accept for record animals far owed in the United States, unless such
animals are first recorded in the American animals are first rec
5. It is further agreed that the American Berkshire Associations will not Canada, unless such animals are first recorded in the Canadian Swine Breeders
Record.


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Will reduce them and leave no blemishes. ter or remove the hair, and horse not blisworked. $\$ 2.50$ a bottle delivered. Book 68 tree ABSORBINE, JR., for mankind the antivergic
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STOCK FARM Angus, Southdowns, Collies Soltheriers. Buls 8 to 15 months. ROBT. McEWEN, R.4, London, Ont

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some
semusty
and
 P. O. and 'phone
Railway connections Linday, C.P.R. and G.T.R.

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 Suffolk Down Sheep or Clydesdale Horse Write JAMES BOWMANELM PARK, GUELPH, ONT

## Aberdeen - Angus

Meadowdale Farm Forest Ontario.
Alonzo Matthews H. Fraleigh


Kennelworth Farm Ane
Kennelworth Farm Anguse Rullo-The

Balmedie Aberdeen-Angus
 Shorthorns and Oxfords For Sale


Gossip. Rideauvale Holsteins ments appearing in that number, ferw more interesting than Mr. Carson's
advertisement of
Rideauvale Holsteins. Mr . Carson's splendid herd now number
in the neighborhood of fifty head while it is only a couple of years since th first purchase in breeding females was
made, it will be noted that at the Central Canada Exhibition, held at Ottawa in
September, individuals from the her carried away both the junior and senior female championship honors, the latter
also winning grand champion of the show. The winner of this honor being purchased by Mr. Carson. She came to the herd along with several other cows
from Western Ontario, including Countess from Western Ontario, including Countes,
Plus, Duchess of Norfolk and others. Countess Plus is also a big, strong cow of show individuality, and Duchess of Norfolk is probably one of the best pro
ducing young cows in the herd. Stil another outstanding young cow whic cam, is Riverdale Forum Segis. She has style and exceptional size to her credit,
and looks as if she might be one of
Rideauvale corls. Pontiac Jesse Hengerveld 3rd still one more which figured among the
first purchases, has early poven first purchases, has early proven her worth heiproducing of the season, in fact, in type she
very much resembles Rideauvale Duchess very much resembles Rıdeauvate Duches Ladoga, the senior call by Princess Sylvius
Ladoga, which carried away the junior females are rep-esentatives of the herd Chroughout, and to mate with them Mr young herd sire Sir Pontiac Clyde pietj 36466. This youngster won the second in a strong class of senior calves at
Ottawa this fall, and his sire is Woodcrest Sir Clyde, senior sire in service at
Avondale Farm, Brockville. On the dam's side, the breeding of Sir Pontiac
Clyde Pietje is also in keeping, she being
$\qquad$ Her exact record for seven days being
32.22 lbs. of butter, for thirty days 127.42 lbs. of butter both of which were made to note that she produced as a four-yearand 113.61 lbs. in thirty days. As three-year-old she made 36.37 lbs . in 7
days, and at two years 22.50 lbs. Thus it will be seen that she increased her the beginning of her first test as a twoeven as yet she has not reached her limit inume way of production, as there are a to Sir Pontiac Clyde Pietje. Mr. Carson
is expecting some calves in the very near future, and if one may rely on breeding, Questions and Answers. Miscelaneour.
Power for Pumping. to What size engine would be required
to force water a distance of 400 feet
t raise of 60 fect? mend a windmill or gasoline engine for
this work? Could the water hte drawn
instead of forced?
$\qquad$
$\qquad$ keep hunters and trappers out? Would
it be necessary to put them all around the farm? W. H. M.
Ans.-1. A 2-horse-power engine should force the water the distance required.
If the water comes within 20 feet of the height of the cylinder, the water may be
drawn by a suction pump. A windmill is a cheap form of power, but a person
should have a large supply tank to tide pump the water when you wang it. Of
engines are giving good satisfaction, and of Uperationt "we inugine that the cost

|  |
| :---: |

around the propmes where mopasing is
prohibited.

EIGHTEENTH ANNUAL

## Ottawa Winter Fair OTTAWA, ONT

January 13, 14, 15, 16, 1920

$\$ 18,000.00$ in Cash Prizes

Write to the Secretary for Prize Lists, Entry Forms and information.
Entries close December 30th
WM. SMITH, M. P. P., President W. D. JACKSON, Secretary
$\qquad$

NORTHERN ONTARIO


H. A. MACDONELL, BENIAH BOWMAN
Director of Colonization,
PARLIAMENT BUILDINGS, TORONTO
LARKIN FARMS, QUEENSTON, ONT. aberdeevangis cattle shropshire an SOUTHDOWN SHEEP
CORRESPONDENCE and INSPECTION INVITED

MARTINDALE GUERNSEYS
 WE HAVE A FEW YOUNG BULLS. PRICES RIGHT.
McSloy Bros., Martindale Farms, St. Catharines, Ont 20 Bulls-SPRUCE LAWN- 100 Females-Clydesdales, Shorthorns, Yorkshires, Herd
 Newcastle Herd of Shorthorns $\begin{aligned} & \text { and Tamworths for Sale - } 5 \text { choice bul calves, } 5 \text { to } 6 \text { month } \\ & \text { old seval heifer calves, all sired by Primrose }\end{aligned}$ veifers and young cows bred to him; good dual -purpose cows. A choice lot of Tamworthe of bott
bex and various agef; young sow or two bred to farrow in Sept. or Oct., all from noted prize winners MAPLE HALL SHORTHORNS We have on hand at present, four young ur Good Crimson Flower and Butterfly dams.
 THE HAWTHORNE SHORTHORNS AND CLYDESDALES
 Shorthorms and Clydesdales ${ }^{\text {est dame Duke }}$ dth in service. Three near serviceable age; also a few females. One extra choice yearling stallion by im Imp. Dunure peaulieuts of Write STEWART M. GRAHAM. Lindsay. Ont. ROBERT, MILLER, Stouffville, Ont, Has EIGHT of the best young bulls that he hew
 SHORTHORNS SHROPSHIRES COTSWOLDS Cows in calf and calf by side Also heifers in calf and others ready to breed. Bulls of serviceable age.
(Myrtle Stations, C.P.R., G.T.R.)
ANO. MILLER Irvin Scotch Shorthorns $\underset{\substack{\text { Herd } \\ \text { preme } \\ \text { by } \\ \text { bainfurd Mar } \\ \text { Gu }}}{\text { Gid }}$


SCOTCH BRED SHORTHORN FEMALES

## safely bred. These are priced to sell. I I also have a couple of ten-month bulls, thick, sappy number are just re merd

SHORTHORNS AT A SACRIFICE

Walnut Grove Scotch Shorthorns

## 

920
C The Trapper
 tracks and sions. It is very imporant if if prson is to mile, that hek erows he trackes and signs
 thir nabits and general peaniarites)





 it is not wort wiwat the tein paye of youn




 and

 to understand many, things you formerly did not. "Knowledge is power," and
therefore, want to learn all you can. therefore, want or a professional trapper
An Indian can tell you by looking at an animal's
track in the snow, many things about that animal that almost pass your comprehension. They can tell you accurately
by looking at a track what animal it by looking at a track what animal it was, mate or female, how long ago it often where, going, and many other things
you would not believe possible. They you would not believe possible. They have you or I would read a book, and while as you or I would ream a not be able to
the average person may note
gain as much knowledge as these experts gain as much knowledge as these experts
it is not necessary-they can learn a -it is not necessary-they can
Some knowledge is so easily acquired
that any one can do it. For instance, that any one can do it. For instance,
almost any one can tell you, if they almost any on the odor of skunk is very
see a den, and
prominent, that the den belongs to a prominent, that the den belongs to a
skunk. Yet if no odor were noticeable, skunk. Yet if no odor were noticeable,
most people would be at a loss to know
for sure what animal was in the den. most people woulnimel was in the den.
for sure what animal
One sure means of finding out is to reach your hand down in the burrow as far
as possible, and grasping a handful of as possible, and grasping a handful of
dirt from the bottom of the burrow, draw it up and look at it. If you find
black and white hairs in the dirt (which you are sure to do if the den is occupied
by a skunk), you will know it is occupied by a skunk.
In the same manner you will know a raccoon is making his home in a tree, if you run across a tree on which the trumk
is much scratched up and worn smooth. is men you run across the remains of a rabbit or partridge, you recognize a woodland tragedy, and can in most cases tell from the signs or tracks left what and it. Floating weeds, grasses and bull-
rushes in a stream in smooth, shallow water tells you this particular place is one of the feeding grounds of the musksnow on the bank of a stream tell you a muskrat has been out having a frolic,
and has been following his favorite form and has been following his favorite form
of pastime-sliding. of pastime-sliding. often run across on streams, in woods
and fields, we soon learn to recognize and identify with accuracy, and the more we observe and study them, the
better we will come to understand them, and the more successful we will be in our trapping operations.
Now we come to the tracks, which are
N easy, if not easier, to understand than many of the signs.
The mink and weasel "trail" is identically the same but for size, as the latter is much smaller than the former
The tracks are always in pairs, the left The tracks are always in pairs, the left The weasel's trail you will find in fields, swamps, along fences, old buildings,
through hollow logs in the woods, etc The trail of the mink will invariably be found along the banks of streams- he is
especially fond of the smaller ones. A skunk when walking makes a trail
much the same as a mink, in that the much the same as a mink, in that the
tracks are paired off, but the left imprint tracks are paired off, and not ahead, as in the case of the mink. Also, they are
more than a length of the track ahead,

THE FARMER'S ADVOCATE.

Spruce Glen Farm Shorthorns JAMES McPHERSON \& SONS

Dundalk, Ontario
GRAND VIEW FARM SHORTHORNS
 w. G. GERRIE C.F.R. Station on farm. Bell Phone. BELLWOOD,
 Spring Valley Shorthorns



Mardella Dual-purpose Shorthorns
 by The Duke; dame gave 13,599 tbs. milk, 474 tbs .
butter-fat. He is one of the greatest living combinations of beef, milk and Shorthorn character.
All priced to sell. Write, call or 'phone.
THOMAS GRAHAM, Port Perry, R. R. 3, Ont. When the Cows are Stabled
 didem



## reore refused to eot thit factis nthe face.

 One day, in a moment of confidence, he said: "My success dates from the day that I started to look things in the face." Then he said:"At one time I was in the habit of doing all the pleasant and easy things that came up and putting off the unpleasant things. It I had a customer who was not satisfied-had a kick coming, in other words-- would put off seeing him greeable to do-something I hated to tackle-I could always find an excuse for putting it off The first thing I knew I was in a tangle that nearly put me down and out. Then one day said to myself: "Here, young man, these things
 must be done. Now do them!' Since that day hard and disagreeable things first."
Then this successful man rubbed his chin thought fully -" "And do you know," he continued, that there wasn't one
of those things half as hard to do as II thought it was going to bel" All over the land, men and women, yes, and children too, are suffering because Someone was unwilling to face the disagreeable fact that men do not live forever. Families are losing their lands and their homes because Someone was unwilling to acknowledge the fact that he might die, or become old or unable to provide for those dependent upon him.
It is a strange thing that a man will often insure his crops against hail, or his buildings against fire, which may NOT happen, and neglect
to insure his life against death and old age either one of which is SURE to happen.
You may say, "Life Insurance is all right-but I have other forms of saving." Yes, that may be true. But how long will it take you to save enough to provide for your family-say five o. Wen thousand dollars ? Will it take ten years or fifteen years? Many things can happen to you in that time. Think of the advantages of Life Insurance. Suppose that today you took out a ten-thousand-dollar policy that would guarantee your family that amount of money if you were taken off a week from to-day. You would then have created an estate of ten thousand dollars in one week!
That's what Life Insurance means. Suppose that you live for twenty years, or longer, would it not be a great thing to know that at the end of that time you would receive The Imperial Life Assurance Company's cheque for the proceeds of your savings.

Think of Life Insurance from two standpoints. If you live you collect the money to do with as you like-just when you will need it mostwhen you are old and want to take things easy.
If you should not live, you have done what a If you should not live, you have done what a good man should do, and that is provider
for those who look to you for protection.
for those who look to you for
Give this matter a lot of thought. Mr. Farmer. Every day people are sureaing
because Someone refused to look the facts in the face. If you complete and mail to us the coupon in this advertisement we'll send you some interesting inform
an Imperial Policy which will fully protect both you and your family

## THE IMPERIAL LIFE

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8horthorns The Breed For You Shorthorn steers hold a carload on the open market in Canada. They also market in high-price record for carlots of heavy steers, yearlings and feeders on the American open mar-
kets. They are monev makers
Writo the Secretary for froe poblieations
Dominion Shorthorn
Breeders' Association W. A. DRYDEN


## Maple Shade

## SHORTHORNS

A dozen young bulls imported and my own breeding at moderate prices.
W. A. DRYDEN

Brooklin
Ontario
The Cot of Burrbbrai Sutan, =80325 =



 Arkell CPR. A. GORDON AULD

## DUAL-PURPOSE

## Shorthorns

 breeding form good milking dams. Prices Mo

## Shortherns-Coltmolds

## We have at present a few Cotswold ram lamiss. Gooo ones and driced right. Also have one 9

 months red bull as well as five two-year-heifers incalf to King Dora (imp.). Rhode Island Red yearling hens 82.00 each.
SOCKETT BROS. Woodburn Shorthorns Two young bulls of serviceable ages.
one of the other, whereas those
mink are only slightly in advance. Also in pairs is the track of the raccoo when he is trotting, but they are even
and are not ahead of one another as in the cases enumerated above. When you run across the track of the coon in the mud, doubtless the first thing it reminds you of is the imprint of a baby's foot
It very much resembles this, and every one on first seeing the track makes
note of this note of this resemblance. When walking,
the trail of the skunk is ziszagged shape the trail of the skunk is zigzagged shape
and when he is jumping it is so nearly and when he is jumping it icks nearly
like that of a rabbit, two tracks straight across from one another and the othe
two b behind one after the other that they cannot b distinguished one from the other excep
for the difference in size Members of the weasel family Mustilodea, which comprises such animals as mink, weasel, marten, etc., in travelling in snow of any depth, usually show tail drag, Al e muskrat also alway
drags his tail, and the mark of same will always be found with his tracks on the muddy banks of streams. The tracks themselves or the weasel ramily resemble
one another in formation of the foot, but vary in size, the mink track being larger than that of the weasel, the marten
bein being larger than the mink, and the
fisher larger than the marten fisher larger than the marten.
The raccoon and bear tracks are much alike, the track of the latter being much like the adult human foot, and they both belong to the same family
The dog, wolf, fox and coyote tracks
are similar except in size, belonging as they do to the dog family belong to the same family-feline-and therefore their various tracks are much
similor similar, each showing four toes in the larger than that of the wildcat, and that of the mountain lion larger than that of the lynx.
There
There are many good books on the
market which deal exhaustively with market which deal exhaustively with
this subject, and from which you can learn much. But, as a rule, you only
read them and do Oormation you would secure if you
actually had seen the tracks and sin There is no manner in which and signs and anything, if you desire to remember it. If you will take a day when there is a
good tracking snow, and follow the track the various changes and general pecu-
liarities, you will learn more of this car ticular animal on one trip than you could earn from a book in months.

Questions and Answers.
Miscellaneou
Could I learn telegraphy in a railway
station? How long would it take for a station? How long would it take for a
person to learn? Would you advise learning telegraphy as a trade? What would the expense be? What are the
prospects?
Ans.-Many have learned telegraphy
in a railway station, but there are also schools where this occupation is taught. The length of time it takes to learn it
depends on the ability of the person the cost would be in proportion to the time spent. There is usually a demand for telegraph operators

Division of Estate

1. In the case of the husband dying
and not leaving a will, how would the estate be divided, where husband and wife had house in both their names; the
woman being the second wife? Could she claim all the property, or could the being no children by the second wife) put in any claim
2. Could the husband's brothers and
sisters come in for a share? sisters come in for a share? A. C. B.
Ontario.
Ans. -1 . If the deed of conveyance
of the house is in the names of husband and wife as joint tenants the wife, being
the survivor, is solely entitled to the property, but if they are made by the
deed tenants in con deed tenants in common then her in
terest would be an undivided half, and (after payment thereout of debts, funera and testamentary expenses) to one-third
thereof, and the children to the remaining


Cletrac power is never "tied up"-never idle.
It works for you every month in the year.
For one reason, there is no waste time lining up the Cletrac for belt work. No trouble keeping it "set."

For another, you can put the Cletrac
over any kind of ground-mud, sand over any kind of ground-mud, sand
or snow. It travels on its own tracks So yout can have power anywhere yout want it on the farm-for any machine. You can take the Cletrac into the bush and snake out logs. The
will turn them into cordwood.


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regulated to burn less for light machines.

The Cletrac you must know as the tractor that does every the soil. Its economy, its efficiency have made farming more profitable
Winter or summer, every profit from your farm.
From Burpee's Seed Farms
"One of the great advantages we
found in the Cletrac was the great conveninence in turaning and the grea
into place for a hinct into place for a hitch to the machine
to be used and lining up into exact
position for belt morly

## Selecting YOUR Tractor"

 FREE Booklet of Information You can decide better what typeof tractor YOUR farm needs after you read this book. Find out what a
tractor can do for you. Write for this booklet.

The Cleveland Tractor Co. of Canada Limited

## SCOTCH SHORTHORNS

PRESENT OFFERING
6 imported bull 4 hame bired bulls, 25 imported cows with calve at toot or forward in alf

## J. A. \& H. M. PETTIT - - Freeman, Ontario

 ELMGROVE SHORTHORNS, YORKSHIRESthis fall but am offering privi business I will not hold my anuual sale of Shorthorns alves at and also privately a limited number of young cows, several with offering I ever had on the farm and all showing in good condition.
In Yorkshires I have several bred sows; a few boars of serviceable age and some
Plaster Hill Herd Dual - Purpose Shorthorns
For sale-ten young bulls from large, deep milking cows, with records
up to $12,000 \mathrm{lbs}$. 15 cows and heifers, heavy producers, mostly all in calf to Green Leaf Record 96115 or Dictator whose two nearest dams ROSS MARTINDALE,
R. R. No. 3,

CALEDONIA, ONT

## The Salem Herd of Scotch Shorthorns

HERD HEADED BY GAINFORD MARQUIS, CANADA'S PREMIER SIRE. Write us about the get of Gainford Marquis. They have won more
at Toronnto and other large exhibitions than those of any other
sire
J. A. WATT

Elora, Ontario BRAEBURN SCOTCH SHORTHORNS 150 Head 100 Breeding Females

 Brantford 7 miles. Oakland 1 mile. L. E. N. E.ectrics R.R.R. Cars every hour.
Dual-Purpose Shorthorns ${ }_{\text {nerd }}^{- \text {nerse }}$ headed by Dominator 100224 , whose two
year. Write for past
dams average 12,112 pounds of milk in WELDWOOD FARM,
Cedar Dale Scotch Shorthorns-Pleasing Cattle and Ploasing Pedigrees-Senio
 room. Also have a couple of Scotch-bred
FRED. J. CURRY, Markdale, Ont.



1


## Hospital for Insane, Hamilton

best dams will be sold at reasonatel prices.
Hamilton House Holstein Herd Sires

 older bulls by the same sire and from the
up to 27.24 libs. All are priced to sell.
D. B. TRACY,

Hamilton House, COBOURG, ONT. HOLSTEIN HERD AVERAGES 18,812 LBS. MILK A herd of 13 pure-bred Holsteins last year averaged 18,812 lbs. milk and 638.57 lbs. Tat.
Do you realize the money there is in suach cows?
It is estimated that the average annual yield
all cows in this country is under 4,000 lbs. These 13 cows D oduce as much milk as 62 cows of
 moLS
HOS, Secretary,

## Raymondale Holstein-Friesians

 Avondale Portiac Echo. Several ot these are of serviceable age, and all are trom
good record dams. Quality conidered. our prices are lower than anvwhere else
on the continent. Their youngsters should not remain long. Write to-day. RAYMONDALE FARM
D. RAYMOND, Owner
Queen's Hotel, Montreal

## MONTROSE HOLSTEIN - FRIESIAN FARMS

 (The Home of 20,000-lb. Cows)Present offering (at right prices), four young bulls out of R,O.P. cows with records of $20,000 \mathrm{lbs}$. milk and over. See this herd and our young
bulls in particular before buying elsewhere. Visitors always welcome.
R. J. GRAHAM, - Montrose House Farms, - BELLVILLLE, ONTARIO

## PIONEER FARM HOLSTEINS



Our Country's Call. Continued from page 2228 of Cristmas Number much unconscious irony in that announce munt. "Welcome home, boys, to help pay for this depot which is being built by high-priced labor working at nineteen per cent. efficiency."
Last spring it was my privilege to observe frequently a shepherd caring for his flock. It was lambing time. A ewe
had died, leaving a lamb to the tender had died, leaving a lamb to the tender
mercies of the shepherd. He had taken the lamb to his house, and warmed it
by the fire, and fed it milk from a nursing bottle. Another ewe had lost her lamb and the shepherd was trying to induce
her to adopt the motherless waif. The lamb would leave the foster-mother when him all about, tottering on its long wobbly legs. lished fact and it was hard to an accomp was the happiest, the lamb, the fostermother, or the shpherd. During this
whole time, the shepherd seemed to take no note of the eight-hour or ten-hour inconvenient way of appearing upon the scene ent any hour of the day or night.
Faithnulness and tenderness. "He shall lead his flock like a shepherd.
He shall carry the lambs in He shall carry the lambs in his bosom. Curious or thoughtful persons may
speculate for themselves upon these two instances, to discover, if possible, reasons There is much, doubtless, in the material upon which the labor was expended. Lambs are lovable things; whereas, a power to stir the emotions. But whatever The causes may be, there is no doubt that Nork is the spirit for which the country (alls. It is good for the country that even better for the workman.
Ruskin in one of his addresses says: that God intends no man to live in this world without working, but it seems to be no less evident that He intends every
nan to be happy in his work. . Now in order that people may be happy in order that people may be happy
in their work, these three things are

## Manor Farm Holstein-Friesians

 GORDON S. GOODERHAM, Clarkson, Ont.


 R. M. Holtby, R. R. 4, Port Perry. Ont.



 | King seeis walke. |
| :--- |
| Orono, onataro. |




 $34+1 \mathrm{l}$ dam. One is full brother to the Grance

 May Echo Sylvia. We now have bull calves a few mation, G.T.R., Port Perry, Ont., R.R. No. 4.
R. W. WALKER \& SONS, Manchester Station

FOUR HOLSTEIN BULLS FOR SALE



## Evergreen Stock Farm Registered Holsteins

A. E. hulet,
line parfy for your norng therd sire. NORWICH, ONTARIO
Oxford Co., G.T.R. "PREMIER" HOLSTEIN BULLS-Ready For Service Young bulls from dams with 7 -day recorids up to 32, ,68 Bs . of butter, 755.9 bss. of
 r. h. Balle

CHOICE HOLSTEIN FEMALES!!


needed; they must be fit for it; they must
not do too much of a sense of success in: and they must have Every citizen fitted for some, useful work! What a revolution in our system
of education before that national ideal of education before that national idea is attained! What changes in our standard to this test how many occupations in our complex civilization would have to be abandoned as useless or mischievous. We test the integrity and worth of citizen by the value he places upon
vote or by his interest and activity in public affairs. Why not measure his value by an even more fundamental test-his contribution to the well-being of the nation through his daily work
his occupation? For such an occupation every boy and girl in the schools must be fitted manually by being trained in some useful handicraft, and mentally by being taught the science uderlying that craft
whether agriculture or house-building or whether agriculture or house-building or
home-making; and taught also some home-mary pinciple in econiomics, social elementary pincipl. They must be taught
science and civics. to scorn drones and parasites in human
society. They must be taught that society They must is
manual labor is the first necessity of manual labor is the thats menual labor intelligently and faithfully performed, is to be honored in principle and admired in practice. And they must be endured that other occupations are to endl-being
only as they contribute to the welof labor; in enlightening it, by education; in brightening it by amusement and recreation; in protecting it by just govern-
ment in elevating and ennobling it,through the spiritual ministry. The country's call is answered by men and women who possess the civic conscience. Such people have abandoned seli-1nterest as the main obligation. And this conversion to a higher motive to be effective must be expressed not in mere benevolent inkten
tion or in philanthrophy or works of tion, or in philanthrophy or works or
charity, but in such constant occupation as contributes directly to the material or spiritual welfare of the nation.
An honest day's work at real honest
work for an honest day's pay, and plain living and high thinking. Let everybody try these remedies, the rich and the poor,
the employer and the employee, him that the employer and the empoyee,
has and him that has not. Let everyhas and
body tr
work.

Waln Gossip. Walnut Grove Shorthorns. vious exhiewing the winnings at the preOttawa, of the various live-stock breeders,
it is pleasing to note the success which met the entries in Shorthorns made from the splendid Walnut Grove herd owned
by D. Brown \& Sons of Sedden by D. Brown \& Sons, of Shedden, Ont
It will be remembered It will be remembered that most of the
animals exhibited by "Walnut Grove"
were not were not only young but were also bred on the farm, many being sired by the
present herd sire, Gainford Tresent herd sire, Gainford Eclipse be one of the best breeding sons of the great Gainford Marquis (imp.), and that
he is above the will be seen by the placing gained by season. He is mating exceptionally well with the present breeding cows at Walnut
Grove, but when it com the pedigrees of these same a review of the pedigrees of these same cows, it will
be noted that they, too, have everythin in the way of breeding to commend them Representing as they do, families suc as Marr-Maudes, Bruce-bred Mayflowers
the Duthie Rosebuds, Kilblean Strathallans, etc., Gainford Eclipse surely has the advantage over many sires which are at the head of the average Shorthorn herdof to-day. Messrs. Brown stating that they have just recently shipped their winning senior bull calf to a prominent breeder near Stouff ville
adding that he did exceptionally well since landing home from the she J. J. Elliotet, of Guelph, recently selected
two choice Rosebud heifers, and Messrs. Snary \& Sons, of Croton, purchased sweet Marr-Maude heifer, which was
shipped about the allan bull that should produce animals of the right sort, went to F. Henderson, of Fingal, and another promising youngster
of the same type went to John Brougham. They also report having re-
ceived ceived several splendid offers for the grand champion heifer at Ottawa this
fall, but so far they have no intentions fall, but so far they have no intentions
of letting her go out from the herd. She is due in January to the service of
Gainford Eclipse. At present there is Gainford Eclipse. At present there is
only one bull left in the stables that is of serviceable age, but a number of youngei
calves, nearly all of which are sired by Gainford Eclipse, will make a real strong offering for the spring trade, Breeders who appreciate good Shorthorns
will enjoy a visit to Walnut will enjoy a visit to
times.

## Chimney Sweating

 ditor 'The Farmer's Advocate" asking for information cour correspondents ing. His question is anything but clear as he does not state if coal or wood is used for fuel, and further one is lead to suppose that both pipes and chimneyare used, and both are affected. Sweating is an almost sure indication of dirty pipes,
the soot in them becoming liquified with the heat. If pipes are kept clean they will not sweat. A good practice is to
clean pipes at least once a month. Pracchimneys; a good practice in their case however, is to open all dampers every morning when cleaning the ashes out of
the grate, and let what fire will go up the chimen. Whe you have your
chimney clean you will have no further trouble in keeping it clean. It is quite probable the chimney has not been cleane it is cleaned, particularly at the the until fire or otherwis

> Soot in Chimney.

Editor "The Farmer's Advocate";
Waxy deposit may be removed from
chimneys in the following Soak some papers in kerosene and place
them in the chimney through the flue where pipes go in. With pipes removed
ignite the papers. This will hurn the wax to a crispy cinder which can easily be rattled down with a heavy wire o
anything pliable enough to go up through the flue. If chimncy is heavily waxe siderable amount of fiery cinders wi
issue from chimney, care should be used issur from chimney, care should be used
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cet your herd header here.
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Questions and Answers Miscellaneous.

A Wage's Claim.
This is the first time I have come $t$ you for advice. I want to know.if a girl
of twenty-four who has done the house work on a farm since she was fifteen years of age can claim wages since she was twenty-one, or for one year on? Ontario.
Ans--She is not in a position, legally, thake and maintain such claim, unless
there has been an express agreement for payment of wages, or circumstances
such as would reasonably support an nference that she was to receive renumera fion for her services. This is because he relationship of the parties,

Life of Silo.
It overhead a disccussion on silos the other day, and one party said that the
bife of a wooden silo with the iffe of a wooden silo, with the timber
properly treated, was from 25 to 30 years, and the life of a concrete silo 20 years, as the acid in the silage would eat out the concrete. Is this right. I always
believed that the concrete silo was a believed that the concrete sito was
permanent structure. Can you or any permanent structure facts concerning the Ans.-We cannot say definitely what is really the life of a concrete silo; wi do know, however, of sions which are ap-
erected 15 to 18 years ago parently as good as the day they were had any effect on the concrete.
ens a farm which at her death she wills in the following manner: The farm to be sold for cash y auction, and each the family for sentimental reasons, wish the farm kept in the family and, therefore, all agree on a price, under these conditions
can one member of family purchase farm and pay off the rest, or must the farm be offered at public auction? H. B.
Ontario Ans.-It is the duty of the executor to carry out the intention of the testator
as expressed in her will. The will ex plicitly directs a sale by auction for cash receive money instead of land; and the executor could not be compelled to con-
vey the farm otherwise than to the purchaser at such auction. We should hink, however, that it could be arranged
that the member of the family who is take over the farm be allowed to become the purchaser at the auction sale. it
is, of course, important as regards the matter of title, also, that the
ments of the will be observed.

Telephone Wire Nuisance. About three years ago a pair of teleby a local telephone company. They used side blocks on 20 -ft. poles, which leaves bottom wire abor rod crossed
driveway crosing the driveway crossity after wires were put
said road shortly up on top of a load od hay and was
caught and nearly pulled of the load by the bottom wire. I called up the manager of the telephone company an it would be
about it, and he assured me taken care of. Since then I have called in at our local office about hall a dozen times and reported it. Last June yy who up the presurrise that such a thing had not been taken care of, and assured me he would look after it. So far 1 do no think anyone has so much as come to
look at it. What I would like to know is: 1. Is there any legal height for a wire if so, 2. Would I be able to get an orde them to raise the wires, as I have been caught several times since the first? 3. How would it do to give the com
pany written notice now and cut the wires next haying if they have not been raised?
Ontaric
Ans. - 1,2 and 3. It is a proper matter for complaint to the Ontario Railway and Municipal Boad and
recommend you to lodge your complaint with the Board rather than take the


## Muskrat Wanted!

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## Our School Department.

Hot Lunches in Rural Schools.

by alpha

The Canadian teachers of rural public schools who have this season undertaken the innovation of serving the scholars with hot noontime lunches are at least in distinguished company. The foremost city in the United States, New York,
some time ago set aside $\$ 50,000$ for a some or ago set aside in providing
trial or demonstration in press
luncheon luncheons in the elementary schools.
Perhaps the immediate incentive behind Perhaps the immediate incentive behind
this move was the discovery in about 50 schools that from 17 to 68 per cent. of the
scholars were suffering from malnutrition scholar ot s were suffering from malnutrition,
or in other words, defective nourishment. Of course, it was not expected that one good, warm meal daily for five days in
the week would make a healthy youngster, the week would make a healthy youngster,
but it was a sort of education for everyone in the school, and indirectly for those in the home. Of course, some people
pooh-poohed the idea as a new-fangled frill, but the boys and girls liked it, and naturally talked about it when they sat
around their home tables telling got and how it was cooked. They became home missionaries in a decidedly
cate effectual fashion. Among the portions served out were pea soup, fish or cheese
or egg sandwich, a bit of pudding or egg sandwich, a bit of pudding, milk
or cocoa, stews, fruit tapioca, cream of corn soup, peanut butter sandwich and apple betty. It is reported that a pupil could obtain a wholesome meal for as little as ten cents, covering the cost of
raw materials only, the overhead outlay for outfit, etc., being covered by the civic appropriation. There are also examinations of the scholars by a
physician of the Health Department physician of the Health Department
talks to teachers linking up theory and lunchroom practice, monthly weighing,
of scholars; meetings, where domestic science teachers
talk about food facts and children' talk about food facts and children's
needs. Now, while it would not be needs. Now, while it would not be
seriously urged as a plea for warm noon-
hor hour luncheon that pupils in Canada
country country schools are, to any general
extent, ill-nourished, the trial service will no doubt contribute to their comfort and
satisfaction compared with satisfaction compared with the frigid
contents of a tin dinner pail washed dow with cold water. A good many of our predecessors probably got along very well
without without such things in pioneer or much
later times, but that is no reason why later times, but that is no reason why
something better may not be on the school program of 1920. Farms were
carried on once without silos or gasoline
engines engines, and such a luxury as a bath-
room in a farm house was not even a dream. The actual experience and commont of teachers with the hot-lunch idea
would be appreciated by readers of the would be appreciated by readers of the
School Department of The Farmer's Advocate and Home Magazine. One
effect already noticed in some effect already noticed in some quarters is
that it quickens home interest in what is being undertaken in the school and this is one of the first steps towards a policy
of improvements in other particulars.

## Silo Problems.

There are many people so ignorant that they do not know whether one start that they do not know whether one starts sums, but we think we have told you
to take silage from the top or from the enough for one lesson.

bottom. There are many things to be learned about silos, which are now so
common, and we are going to mention common, and we are going to mention a

One problem which troubles many farmers is how to estimate the capacity
of a silo. Your teacher can easily explain the method to you, but we are going to set down here the rule we follow. Ta ae, for instance, a round silo 14 feet in diameter and 35 feet high. This is a
common size. First, find the area of the common size. First, find the area of the
bottom, which is a circle. multiply the radius squared by $31 / 7$, or in other words, the radius is 7 feet; this squared gives you 49, and when multi-
plied by $31 / 7$, the result is 154 squire plied by $31 / 7$, the result is 154 square
feet. We now have the area of the silo. Now, to get the cubical contents of the silo, we multiply by the height, which is 35. You will see then that 154, multi= plied by 35 , gives you 5,390 cubic feet
which is the practical purposes a cubic foot of ilo re can be estimated at 40 pounds. Near the top a cubic foot of silage will not weigh quite 40 pounds, but at the botthat so for the entire content more than in estimating a cubic foot of silage at 40 pounds. Knowing this, we can arrive at ways number of tons in the silo in two foot of silage, 50 cubic feet will in a cubic ton; dividing this into 5,390 , we get silage in the is the number of tons of Another method to arrive at the number of tons would be to multiply 5,390 by 40,
and divide by 2,000 . and
of some as to why silos are in the minds of some as to why silos are built so high,
making them more difficult to fill than though they were not so tall but than Uh diameter. There are two answers: pressure which is high there is a greater us a better quality of silage. The second answer is, from an inch and a half to two inches of silage should be fed off the spoil. It is easy to see how, with a small herd feeding from a silo large in diameter, ne surface layers would spoil and become Dairy cows are fed from 30 to 40 pounds problem can be constructed now by assuming that a herd of cows, numbering from a silo 14 feet in diameter. How many inches will the silo be lowered per For the safety of man and beast there which everyone should know First when filling the silo a poisonous gas is generated by the fermenting silage. If the silo is closed up tightly and a man should get into the sin when this gas is present. deaths have resulted from this very cause. The second thing that should be known is, particularly sate to teed moldy stage, paralysis of the throat, which prevents
the animal from swallowing Many the animal from swallowing. Many
horses have died from eating moldy silage. There are many things to learn about such a common and simple thing as a
silo, but we think we have told you

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