

## WILL SILO FILLING TIME FIND YOU READY?

ILO FILLING time will soon be here-and the Canadian Farmer is depending upon the com crop this year as never before. It is your duty, and it will mean more money in your pocket, to use every effort, to get ALL the FEEDING VALUE out of every stalk of com.

The most important thing is to silo
your corn crop when it possesses the YREATEST FOOD VALUE. If you fot a Giloon Silo Filier EARLY be your we are sold out-you will fill your silo your own corn when you is
wist right
just dent of the cutter gang. You do not need big power to operate the "Gilson." Your own farm engine

Write for Free Silo Filler Book to-day If tells the Gilson Story from start to finish points out the advantages of de tion in such a way that you will under stand WHY our machines cut and elevate MORE silage with LESS power than ANY OTHER Blowar Cutter. This is a matte of dollars and cents to you. A Gilson
Silo Filler will, in all probability, pay for Silo Filler will, in all probability, pay for
ittelf the first season. BEW ARE OF IMI. TATIONS AND INFRINGEMENTS



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TOWRER FSHH BRAD RFFEE LONG COATS "Takes the We Out of Rain"


\section*{Puts More Land Under Crop}

IT is a proven fact that the Cletrac TankType Tractor saves money on the farm. But-if the Cletrac Tank-Type Tractor didn't save a dollar of the cost of plowing, discing and harrowing - even if it cost more than farming with horsesit would still be a boon to progressive farmers--a sound investment and a big profit-maker. Farmers who own Cletrac Tractors have their farms in good shape - more of their land is earning money. And because it fits the land better, the Cletrac also increases the yield per acre.
12 -horsepower on the draw-bar. On the belt pulley 20 -horsepower. Works 365 days in the year.
Plows \(3^{\frac{1}{2}}\) miles an hour. Climbs in and out of places that block other tractors. Low-set-it can work under trees.
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Don't make a decision on the tractor till you have studied all the facts. Two most interesting books "Our Owners Say" and "Selecting your Tractor", free for the asking. Write now.

\footnotetext{
J. M. Boyd of Belleville writes us:

> I have been operating my Cletrac Tank-Type Tractor for over three months, doing all my Fall plowing, discing, cultivating, etc., using three \(10^{\prime \prime}\) bottom plows, with excellent results, on clay land which is more or less stony.
> I have had it operating a \(1 S^{\prime \prime}\) Gilson ensilage cutter on a 36 -footsilo withlike results, and was surprised at the simplicitybin lining up this little machine for belt work-I used no bracing
}



\section*{Over-strength in every part}

It pays to buy sturdy, rugged as efficient machines, they threshing machinery. For it havethestrength thatstands has to stand treatment that up under strain. Parts that ordinary machinery never gets. have to meet extra load and The bumping about over rough \(\begin{aligned} & \text { strain are made with great } \\ & \text { over-strength. It has been }\end{aligned}\) roads, up hills and down, puts the one thing we specialized a terrible strain on these heavy machines. If there are weak parts, poor material, defective castings, or careless workmanship, they are bound to break and cause trouble and expense. It was because White Threshing Machinery had sturdiness and extra strength in every part built into them that they hold such high reputation today.
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The better you understand machinery the more you will Threshers. We want you to examine our machines carepoint with others, and then decide absolutely on the merits of the machines. You are bound to choose "The First Quality plicity and ease of operation Line,

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The Greatest Improvement
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\section*{The Farmer's Advocate
 PERSEVERE SUCCEED Home Magazine \\ ESTABLISHED 1866}

\section*{EDITORIAL}

A summer or fall foal often works in
farm. It is not too late to breed for either
The best time to prepare for a crop is
previous. Keep the plow and harrows going.
Weeds have gained ground in this province during the war-fight them with after-harvest tillage.

The get of sire, produce of dam and breeder's calf herds are very significant features of a live-stock show

It is no disgrace to be beaten by a better exhibit
than your own, and a "good loser" usually wins out than your
eventually

Victory loan bonds purchased in 1919 will be good property, and each
healthy in Canada.

At present there seems to be more money in making and selling shoes than in farming, but the business

Were we asked for an expression of opinion we would suggest putting a barb-wire fence around the Balkan States and let them "go to it."

The next best thing to seeing a fair is reading a good report of the same. Events staged during the

Any clover fields that promise even a fair crop of seed should be zealously guarded and harvested.
Clover seed will be a scarce and valuable commodity next spring.

One can do more than vote these days. It is possible to have some say in whose name shall appear on the ballot; and right here an interested citizen can exert eneficial influence.

Do you carry ample fire insurance on the buildings and contents. It is a great mistake not to have some loss should such occur

Where it is necessary to postpone the fall wheat seed ing on account of Hessian fly, prepare the seed-bed
extra well and give it ample fertilization. A good tart in the autumn is essential.

If farmers took the wages of ordinary good mechanic and pairl family help on the same basis, the industry would be bankrupt so far as accurate bookkerping
could reveal the true status of agriculture in this country

Good plowing is the starting point of good farming
\(\qquad\)
\(\qquad\)
\(\qquad\)

The Prince's experience on the western front, where
accustomed to the incessant roar of the
no doubt equipped him for a similar ordeal
If he stands up under the strain of addresses
and declarations of loyalty from Halifax

The Provincial Political Arena.
No little discussion nowadays centres round the steps being taken by farmers to secure proper representation in the Provincial Legislature. An election is impending, and, as never before, armers are deshall in clude a reasonable number of men whose sympathies with and knowledge of agriculture fit them to represent rural ridings. There is a healthy disregard for party and a commendable desire for sane, equitable legislation now existing throughout the country. This effort is already producing favorable results for there seems to be a tardy willingness on the part of both parties to set up a farmer candidate in those constituencies
 tikely to be sevar. whe where and mermer ring and make a three-cornered contest with a farmer desire to throw cold water on this movement to get proper and fair representation for agriculture in either proper aminion or Provincial House, for "The Farmer" Advocate" has preached this doctrine nigh on to half century but three farmers striving for election in one centituency appears to us as somewhat unnecessary. Where the party machines permit two farmers to contest a riding one must be elected, and U. F. O. members could mark their ballots for the best man without any misgivings that their judgment was being influenced by partizanship. We still have sufficient confidence in human nature and farmers generally to expect a bona-fide farmer elected to the Legislature by his own people to do the right thing, if given a chance, regardless of what party, or organization put him there. The trouble in the past has been that agriculture was represented by so few farmers that they had about as much chance as the proverbial snowball of accomplishing anything substantial for the industry
There is more than a possibility of the U.F. O. and the farmer's cause generally being injured by nominating candidates in too many constituencies. All of the nominees known to us personally are worthy of the honor and conficence imposed on difficult to that is not the porsal orgizacarry and whe the proper type of speakers and organizers if the field is to large. We understand that the U.F.O is desirous of electing only sufficient men to exert a is deficial influence on legislation by supporting the beneficia oren when that party's policy coincides with what is considered sane and just. If this be true, it would appear like good judgment not to reveal the full strength of the organization at first, but to make the election of a reasonable number of candidates sure, and not subject the doubtful ridings to a test. Moreover, there is a probability of several farmers being elected on a straight party ticket which is satisfactory progress towards the kind of representation for which farmers have been striving. Until the U.F.O is prepared to assume full responsibility of Governmer.t should they find themselves in majoritv and so long as they are willing to support, where de med advisable, can see no reason why a bona-fide farmer, iva if elected on a party ticket, should not prove a s factory representative. The primary object, as we un. stand it, is to have agriculture properly and adequately represented in Dominion and Provincial Houses by such men are members of the U. F. O. or not it matters little to the industry so long as they do their duty by agriculture and the country at an honest effort to this note of caution in order that an honest effort to
carried too far without consolidating the ground gained It is always well to have ample reserves, which, combined successful elections in the ridings contested within the range of vision

\section*{Help the Soldier Settler}

\section*{The Soldier Settement Scheme is not understoo} any well in Canada, although it is making rapic headway and thousands of men are being placed on land and assisted to a start. Some way or other the feeling exists in the minds of not a few that the Govern ment is paying the shot and that it is only good business to get every cent possible for land upon which the soldier settler is to launch out on an enterprise which can guarantee nothing but failure if over-capitalized, Only recently a man endeavored to list a parcel of land at \(\$ 200\). per acre, which we know for a certainty could even the latter price was more than experienced farmers, would pay. The feeling, no doubt, was entertained that the Government was doing the paying, so why no appropriate a very modest portion of the public funds. As a matter of fact, the soldier settlet must pay for his farm, live stock and equipment; the Government is only the mortgagee. The Government lends the money but if the soldier farmer cannot meet his interest charges, annual payment on principal, and other obliga tions, he fails the same as any other farmer fails, and is obliged to begin over again. If anyone is entitled to purchase land or farms at rock-bottom prices it is the soldier settler, and he deserves every assistance that his neighbor farmers are in a position to render It is easy to criticize a new-comer to any district because he is unacquainted with local conditions and ignorant, perhaps, of the customs peculiar to the neighborhcod Lend a hand; if advice is asked for, give it; and see that the community does its part in adopting and aiding the soldier settler

\section*{Another Victory Loan.}

The mention of another Victory Loan has come as a surprise, no doubt, to some who, secure in the sense that war is over, have friled to count the cost, although a few months ago another loan was forcasted in several of our parliamentary reports. Practically every belgigantic problem of liquidating the indebtedness created by the war, and the end is not yet. War gratuities to discharged \(m \in n\), pensions, and treatment for the lame the blind and the nerve-shattered heroes who pald a tremendous price for victory have and will cost a considerable sum of mcney, but who is there who would Legrudge the most that we can do for them? Besides providing for reco struction projects, such as are being demanded by agriculture and other industries, the loan is necessary to rraintain the stability of the Dominion's finances, for urless Canada is firmly solvent business will short-circuit and there will be stagnation in all lines. Those who hold large blocks of the last tax-free Victory Loan are duty-bound and should be obliged to take a proportionate amount of the forth oming flotation. However, farmer and manufac urer, laborer and financier, are alke interested in the access or the 1011 loan, for he ll a fo fair the consequestion or lism rom the question of patriotism or loyalty, which stil commind the standpoint of business which no citizen lan rightfully ignore. Thersfore, all are duty bound to five the loan moral as well as financial suppor As an investment it will no doubt prove reasonably attractive on account of the fair interest rate, no trouble
ut collections, and gocd security.

\section*{THE FARMER'S ADVOCATE}

The Farmer's Advocate
AND HOME MAGAZINE
the leading agricultural journal in the

\section*{Published weekly by}

JOHN WELD, Manager.

\section*{Agents for "The Farmer's Advocate and Home Journal,"
Winnipeg. Man.}

THE FARMER'S ADVOCATE AND HOME MAGAZINE Is pubiished every Thursday.
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to any individual connected with the pased below, and not

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\section*{A Warning to us as Well as Britain.} unless they George spent leently and told the Broduced ish people that would become bankrupt. produced more the nation
chasm,", heo must bridge that chasm, he said, "or at at the botom of of it is ruide the .We
are buiding
 State borrowing, but traders borrowing for raw waterial
food, and so ororh. That will only adt trophe. In every direction we are spending more we are earning less. We are consuming more and producing
less. These are facts. In connt How real is this message even to Canadian ears!
We have not yet realizecd that Wenave not yet reailized that it is the " "morning after,",
and must sober up from out war-time carousel extravagance. Everyone is still spending freely on
useless commodities, and when there useless commodities, and when there is any objection
to. high picies it is usually the downu inh noter that appear to cost too much.
Thiry thosuand more miners now than in 1914
 tained with shorrer hours is froduction can be main-
That is something we should talle to the tround.

 turn out wolume of product at a t reacesosary in order to.
too, must work more and spend less. It is time that the citizens of Canada individually
did some erat lhinking on public matuters, and particu-
hatlo larly on the thanciain position of our cumuty. Even a


 wili require the expenditure of more money.
fewer need merer demands for national economy, and
Iewer for rechl ess expenditures if we are to weather the
times still ahead without hardship.

\section*{The Cause of Failures}

It have heard it said that there are s. failurese, inear in cossid that there are smaller number of any other line of bustrial way, amony farmers than in


various branches
The statement
farm is supporting probably true, for we know that the certainly make a failure of any other line where they would have to meet the competition of men who had
been especially trained for their farm will take a man who their particular work. The for the job, apart from what little he may have picked up from observation of the ways and methods of some
man he may have worked for good living for him, worked for his family besides, a fairly This can't be said of many of the trades and professions and commercial undertakings of the city. With all the training that our city men get it is said that ninety-five
per cent. of them meet failure at some time in their career I have no figures at hand regarding the percentage of failures among farmers but from what I have been able to observe I would think that not more, perhaps, than five per cent of them had been compelled to give At the same ame
of what we might call "near failures" and these number some attention from those who are interested particularl on the part of certain individuals has a reason behind and it should be worth while finding out what this reason is and putting ourselves in a position to prescribe a remedy for a state of affairs that shouldn't exist in
such a country of opportunity as Canada is supposed to be
There isn't There isn't much doubt that the real cause of the lack of success on the part of certain farmers is just plain laziness. And there is such a thing as menta make the effort to think out the best way of doin his work or plan a system whereby he can get the greatest possible results with the least labor is just as lazy as the kitchen table, while his wife carries in the wood the water. In fact, his position is worse in some respects The man who will not work with his hands, if respects.
to good purpose, can manage to good purpose, can manage it so that his living is who will not take the trouble to use what brains he has
been endowed with been endowed with, in connection with his effort after
results, will never acomplish no matter how good use he may make of his worth while, At the same time the average farmer muscle. to do a good share of plain hard work, in the ordinary sense of the term. A certain man I can recall put himthis than by any other method he could not realizing apart from that mentioned above. He would sit
the door-step and send the door-step and send the dog to drive the cows out fence so that the thing might not hale to fix the broken o'clock in the morning often saw him still in bed aight on the whole, he had a pretty easy life of it. But it couldn't last. Not on the farm. A foreman is directing necessary to men who lack the energy and amberms that keeps the other fellow on the job. and ambition brings the owner uncomfortably failure on the farm, of system. Where there is a sort of routine a lack of in the doing of the work it is usually done in the shorder, get the of the idea so many have, which seems to to far Here is where "any old way", so long as it is done. come in. Provided he has such a thing. Some men
I have known were strong on theory but to putting their theories into practice they when it came
another. idea. of the failures. There is a possibility that a farmer might run on the of his business by means of some system of accounting.
But so many farmers do not leep But so many farmers do not keep books and at the same
time continue to make business, that one can hardly speak of it ascess of the of absolutely no school education who bought farms and
paid for them and then bought farms for still had money left in the bank when they their sons and
keeping as we know it was somed. heard of, so apparently there are other cyualifications
that compensate for a lack in this respect
belient believe in keeping a set of account books. Duing the
other thing is taking a lot of chances and not many
of us can afford to do that. Another way of going off the joh and settling with
ones' creditors for twenty cents on the doplar in with too small
in in with too small a capital, or rathere, tollar is th stant
in debt when buying farm. If it take. gall ato manly
make, over running eapenses, to in mortgage , exuming expenses, to pay the intercet occasiontable substances and only varying this diet used to be years ago in all be a slave, as the negme habit with mice, the shrews are exclusively carnivorous The fruit of all his labor will go follh of the suct mainly, in fact almost exclusively, on insects: Progress is the he leaves a mortgaged farme ho mine the caytime they may be seen in the and diurnal. hat makes it tolerable, so it secms foolilu and the cemains perfectly quiet for a considerable "marking timet,", prevents one from duing mone an then another, They dart from the cover of one dead any basiness of the great qualifications for He said, "to be ally to sone of the Shrews are large animals and the Pigmy


This should apply to the farmer as well as to any
other business man, as he certainly has his share of
decisions to make if any one has. And if he can decide
-ight just a little better than half the time he's bound
to get to the top of the pile in the end, if he is allowedto
live. Anyway, it's not setting such a high standard
for us but that we may all hope to reach it and in that
it has a good deal to recommend it.

\section*{Nature's Diary}

A little mammal which is seen more frequently
at this time of year, when the grain-fields have ber converted into stubble-fields, than at any other seem This species is about Lapus hudsonius from four and a half to five and a half inches tail being thus exceeding the length of the head and body together,
It has very long hind legs and It has very long hind legs and is light yellowish fawn in
color.
This species inhabits thickets and the borders of
woods, and is not found either in the the open fields. shallow in summer and deeper in winter . in the bu row which number from three to six, are bor with an entrance at one side.


The Common Shrew
When alarmed the Jumping-mouse fully vindicates Its name, as it makes most remarkably long leaps of from eight to ten feet, thus jumping a distanceape equal leaping ability of this species is more fully realized ong jumps it wer that if a Deer make correspondingly In its immense lears sixty yards at a single bound in keeping it right side up and head end foremost observations upon one of these animals which had had that mhile it could still leap juster part of its tail showid individual it usually turned end for far as a normal that it alighted facing the enemy from which it was
fleeing ready instantaneousl for away from the enemy and of this species are rarely made in a straight line
but succeeding ant succeeding leaps are usually at an angle to one far harder to catch than it would be if it bounded in a The jumping-mouse feeds on the seeds of herbaceous plants, eating those of many weeds, such as pig-weed,
rag-weed, and burr-marigold, also acorns, and on various leaves, buds and berries. It eats very little grain, and consequently, since it destroys
weed-seed, it cannot weed-seed, it cannot be regarded as a species injurious of seeds in its burrow. has prepared, usually under a deep burrow which it has prepared, usually under a stump or the woot of a
tree, retiring about the end in severe winters remain in its burrow until spring, but mild weather, even in mid-winter, wilt cause it to appear above ground for a time, and then its far-spaced tracks,
and the marks of the long tail, may sometimes be seen The range of the umping mouse is for ime Provinces to Manitoba, and north-westward to Alaska, and in the west it is replaced by several closely
allied species. In the forests of eastern Canada another species the Woodland Jumping-mouse, Zapus insignis, which is larger, being 10 inches long, Zapus insignis, which is
to the tail, occurs. There is another little mammal which is very com-
mon, partly in the woods, yet is rarely seen-the Common, Shrew, Sorex personatus. The Shrews, when
they are seen, which is dead, are usually taken for some kind of in mice put they up Tesemble mice only superficially, and even exte, but they
differ from mice in having very long In the structure of the teeth and in pood habits they
differ radically from inster radically from mice.. Instead of having long


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September 4, 1919
THE HORSE。
Some Plain Words For Clydesdale Exhibitors.
In the "Scottish Farmer" of which Archibald Mac Neiliage is manager and Editor, we find the following
editorial and its contents should be interesting to all
breeders and exhibitiors of Clydesdales:
Last week we urged a commendable spirit of optimism
as the result of a review of the Clydesdale situation. The as the result of a review of the Clydesdale situation. The received at the Royal Agricultural Society's show at
Cardift. We assume that a perusal of our issue of
last week, alike in respect of what was written sand what
last week, alike in respect on what was written and what of optimism to our readers. A study of the horses to
be seen on the streets of Glasgow will go far to deepen Clydesdale history proclaim abundantly the pre-eminence of the Clydesdale; depression is only engendered when
the show-yard and its foibles are pressed upon our notice.
One good feature of the five past terrible years was the comparative immunity which the country enjoyed
from the show-yard mania. Agricultural shows have rendered great service by stimulating zeal for breed improvement, but shercial value of breeds. The Ayr-
imperilled the commer
shire as a dairy cow would have been extinct had showshird fancy been allowed to prevail. Happily the great
yody of breeders and users of Ayrshire cattle paid no attention to show-yard fancy; they bred and bought and in the end of the day defeated the strenuous efforts Ayrshire as a dairy asset. For some years past the
Clydesdale breed has been menaced in a similar fashion The methods of some leading fanciers have been heroical
commence, stable feeding earlier than is the general
comards destroying the essential characteris-
practice. . It is a mistake to allow the stock to fail in of no consequencc at all in every-day commercial life, thick horse, because he lacked the fancy points, has too "tall," cow-hocked abortions have been highly honored.
Because of these absurdities men have cause to be de-


Making Good Use of Horse Power in After-harvest Tillage.
ed are resorted to, and the precious "spat" over the hoof but for the older pigs six to eight per cent. of tankage
recalls with delight the far-off day when the former
mania for hairy legs and the "spat" received its quietus
\(\qquad\) species down, as one cynic expressed it, "not a step
but a hale stair," were David MacGibbon, Ardnacraig,
Campbeltown; Jas. Crawford, then in Thirdpart, oremorlie; and Andrew Montgomery, then in Boreland mmediately thereafter it was well done, and the breed however, repeats itself, and once more we are assured that the Clydesdale has not enough hair. Increase
\(\qquad\)
\(\qquad\) or guidance in twisting the hind legs of a good filly so

Weaning the Lambs.
\(\qquad\) Remember that individuality must be considered
as well as pedigree when purchasing the herd or flock header. Endeavor to get the quality of sire you want or boar is usually worth the difference. Many who The sire is more than half the herd or flock. If imprices.
The proveWe were in a stable recently and noti ed a pile of
eed ready for the night and morning feeding of calves and cows; nice green corn and clover hay were put This feed appeared appetizing and nutritious. The
calves getting this ration were fatter and more con-
tented than a group of calves in another barn, where
the owner felt that he could not take time to prepare the
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should be separated, and the former pushed for
market. Any cull ewe lambs should also be fitted
for the block, as improvement will never come
by retaining inferior breeding stock in the flock. every year, and these should not be left to reproduce their kind. Before turning the lambs or ewes
into fresh pasture, it is a good practice to go around the fences and cut all the burrs and burdocks which might than to endeavor to clean it after it has become clotted
with burrs.

Intestinal Diseases of Swine. Enteritis (Inflammation of the Bowels), Enteritis, strictly speaking, means inflammation of
any part of the bowels, but it is seldom that the in flammation extends the whole length of the bowel.
This is a very serious, and often fatal disease in any animal, but especially so in the pig.
Causes.- Exposure to cold and dampness, injuries Causes.-Exposure to cold and dampness, injuries, or the opposite condition, diarrhoea. It may also be
caused by drinking impure water, and may occur as a sequel to other diseases.
Symptoms. - The patient refuses food, is thirsty,
very restless, has a dull appearance, and apparently suffers acutely, will lie down, roll on its side, get up,
move around and. grunt or squeal, the mouth is dry and of a purple color, and if the patient has white skin There is well-marked tenderness of the walls of the upon; diarrioea is usually present and the intestinal
discharge is often followed by increased pain; but after a few minutes seems to become somewhat mitigated. The discharge may be very frequent and tinged with
blood, occasionally it is a dark greenish color, being
charged with bile; sometimes there is bloating or flatulent distention: the temperature increased and the pulse at
first full and frequent, as the disease advances the pulse becomes very frequent but weak and almost imper-
ceptible. The breathing is short and frequent, and the animal may have shivering fits; vomition is sometimes The 1 weny ditressige to patient. than in other animals, usually lasting 3 days or longer and death usually occurring from mortification and
collapse. Treatment.- As in cases of enteritis in any animal
we depend upon large doses of opium. Give 10 to 30 we depend upon large doses of opium. Give 10 to 30
drops of laudanum (according to size of patient) in a
little new milk every 3 or 4 hours until recovery or death takes place. If after recovery, the bowels are constipated very severe and not yielding to treatment, the dose
of laudanum should be increased, as in these patient can withstand very large doses of opium (of kept in a dry, comfortable place with plenty of clean straw to lie on, and efforts should be made to sustain
strength by the careful administration of milk and \(a^{\text {a }}\) little oatmeal. After convalescence commences small
quantities of laxative, easily-digested food should be
given often for a week or two given often for a week or two

Dysentery
Dysentery is an inflammation of the lining mem-
brane of the large intestine, especially the rectum, characterized by severe straining and the frequent
passage of liquid or semi-liquid faeces mixed with
blood, accompanied by more or Causes.-Eating decayed vegetable matter, tables not easily digested, putrid animal substances, etc., or it may occur as a sequel to an attack of acute
diarrhoea. Lying in cold, damp quarters at night
is a common cause and is sometimes due to a sluggish condition of the liver. It is sometimes seen in fat pigs, may cause the trouble, and it is sometimes caused by Symptoms, General uneasiness, dullness, impaired
appetite, with usually stiff movements, more or less
pain, the animal whines. There may be either constipapain, the animal whines. There may be either constipa-
tion or diarrhoea. The rectal excretions are usually
lumpy at first, and very frequent, after a time a whitish
\(\qquad\) There is usually considerable flatus (gas) voided, which excretions becomes offensive. Usually a change is
noticed in from 6 to 10 days. The patient may recover
or become worse at this time. In the latter case there
is great depression, straining ceases but there is usually is great depression, straining ceases but there is usually
The animal persists in lying, breathes frequently and
short, the skin is cold and pulse impercept:ble, in which
\(\square\) hours by 1 to 2 oz. castor oil. This should remove has operated 10 to 40 drops of laudanum in a little new
milk should be given every two or three hours until the
patient becomes easier or sleepy. If the patient be very weak 1 to 2 tablespoonsful of whiskey or other
spirits with 2 to 4 grains quinine mixed with a little
new milk or water may be given every 5 or 6 hours.
Rectal injections of one teaspoonful of laudanum and Rectal injections of one teaspoonful of laudanum and
20 grains acetate of lead in a little starch gruel every
\(\mathbf{3}\) or \(\mathbf{4}\) hours sometimes gives good results. The patient' strength shos
milk and eggs.

\section*{Contagious Abortion}

The disease known as contagious abortion exacts only is there a loss in calves due to premature birth but sterility very often results as an aftermath of white scours which is generally believed to be suffer frem with abortion. Hardly a week passes but scme breeder writes to the "Farmer's Advccate" office for a descripticn of causes, symptoms and treatment of this malady more prevalent rather than abating is becoming on the part of the herdsman in regard to prevention and treatment is imperative. It entails a good deal of extra work to treat this disease successfully. Dr. College treats with this disease in Ontario Veterinary in Bulletin No. 272, in which the causes, method infection and treatment are explained in detail. in the ollowing paragraph

The Nature and Cause of the Disease,
The condition known as abortion, or "slinking pregnant cattle. Its occurrence is increasing, and y noticeably more acutely felt by many breeders herds. It has commonly been ascribed to result from ing, accidents and injuries errors in feeding and watering, accidents and injuries of all kinds, influences of the
weather, and also to supposed defects in the male parent weather, and also to supposed defects in the male parent. from such causes, nevertheless, they account fore cases a very small percentage of the cases in cattle, the larger percentage resulting from a Communicable Disease, This disease may be described
affection of cattle, which is manifested by the premature expulsion of the fetus, or untimely delivery of
the calf, owing to an infectios the calf, owing to an infectious catarrh, or inflambeen shown to be a germ kno cause of this has
enital passage, this was formerly place by means of the only method of entrance. It was believed that the discharges from aborting cows, dropping in the stable
gutters and against the stalls, infected others by direct gutters and against the stalls, infected others by direct
contamination of the genitals, or by being switched by the tails of infected cows against the genitals of other pregnant cows occupying adjacent stalls. It was also
contended that the infection was chiefly. conveyed from female to female through the medium of the bull during
\(\qquad\) ach of these consideration must always be given infection; also that infection frequently takes place by the mouth, through ingesting food, water, and milk, cattle Irrespective of the manner by means of which the germs may have entered the body, upon their reaching the womb of pregnant cattle they begin to operate inflammation of its.surface and catarrhal condition, or fetal membrane, causing a gradual separationtacting placenta, which forms the nutritive medium of connection between the mother and the fetus. The disturbance the death of the fetus and its premature explusion, which is termed abortion.

\section*{Symptoms and Course of the Disease,}

Abortion may take place without any special in quite well up to the time when the animal may appea quite well up to the time when the fetus is being expelled occurs during the early stages of pregnancy notice if if fetus or embryo and the membranes are casily the smal and the owner's suspicions are only aroused when he in calf, to be amain are is fairly well developed during the an when the fetus pregnancy, it may be expelled without notice and of accident is first discovered by the presence of the aborted In other cases, indications of cow.
are mainfested by the animal. She is noticed to beroach less and uneasy and to keep whisking the tail. The udder may become enlarged and full, denoting the

Judging for the Championship in Shorthorns at the Royal Sho
Methods of Contracting the Disease healthy herd through obtaining breeding cattle from
diseased herd, thus constituting fection from one herd to another. The manner in which
cattle contract the disease or infect each other has bech a matter of some dispute.. Somewhat extensive in
investigations have been conducted in Great Britain
and America and America and the conclusions would seem to warran the disease germs may enter the system and of which
womb. One means of entrance is by the









is abortion in a herd, that sterility, or barrenness; prevails among both cows and heifers, so that the numbers
of "shy breeders" increases in the herd of the disease seriously reduces the herd. This phase many herds. The cause of sterility in these casens of esulting diseased, condition of the womb and ovarim the latter becoming cystic and with retained ovaries, uteum present, or the so-called brownish bodies, in the
ovaries.

Means of Detecting the Disease,
The importance of being able, if possible, to detect
and recognize the disease when it first occurs in a is apparent, so that steps may be taken to arrest ierd progress. In this regard the safest course to pursue formerly exempt as a sufficient reason on premises that the disease has been introduced, and particecting where new females have entered the herd. Additionly cases of "calf slinking"' occurring at intervals in the herd should be considered confirmatory of contagious abortion being the cause. Experiments have been made with
the view of devising some satisfactory method test capable of determining satisfactory method of infection in female cattle, pregnant or latent wise. Among the methods used for this purpose may be mentioned the abortion test, the agglutination
and complement fixation tests.

Methods of Prevention and Treatment Contagious abortion in cattle is ty basis of dealing with This consists in adopting measures to protect a sound in an infected herd. Important requisites disease this end consist in preventing infected cows from mingris with healthy ones, and the separation of any suspected In adding breeding cattle pregnant cows and heifers. should be made to ascertain if the herd careful enquiries are being obtained is free from abortion dich they the newly exists as to their freedom from this disease, separate until they pregnant females should be kept All cases of abortion should be regarded, irrespective of excussble circumstances, as at least probably the soon, therefore, as any animal in the stable shows signs of aborting, or has aborted, it should at once be removed to a separate stable. The feed should be removed from
the mangers and all bedding and litter from the stalls the mangers and all bedding and litter from the stalls birth. The stable walls and stalls, including the floor and gutters, should be thoroughly cleaned and disinfected The aborting cow is very liable to retain the aftere moved if not expelled with in two or three carefully re this time the womb should be washed out once every day with a lukewarm antiseptic solution, such as a one
per cent. solution of lysol, or with a one-in-one-thousand solution of potassium permanganate. After expulsion out with about two gallons of a one per cent. Lugol's
solution of iodine, followed by a saline solt adding two ounces each of fine dairy salt and bicarbonate The flushing may fukewarm water. month by the use of the Albrechtsen a weerine return flow catheter. This method of treatment is recommended for the prevention of sterility in breeding females,
particularly valuable pure-breds. particularly valuable pure-breds.
In many cases the frequency of washing of the womb In many cases the frequency of washing of the womb this purpose a gelatin capsule containing an ounce, composed of equal parts of iodoform and boracic acid,
may be introduced into the womb a few hours after may be introduced into the womb a few hours after calving, and then repeated the following day. This
practice has been found useful, particularly in cases where the afterbirth is retained. ones, particularly those occupying stalls adjacent to the aborting animal, should have their hind parts, including
the tail, hips and udder, washed thoroughly with an antisaptic solution such as a two per cent. solution of Cattle, after aborting should preferably be kept
oy themselves for a period of at least one month, and by themselves for a period of at least one month, and
they should not during this period of time be pastured in the same fields as hellthy pregnant cattle, nor allowed in the pasture fields so long as discharges continue to come from the vulva. This is important, because the
discharges may infect the grass and when thus contaminated, may remain virulent and apossible source of infection for somatime. At the end
of the isolation period, before allowing aborting of the isolation period, before allowing aborting
cattle to mingle with the other members of the herd,
it is advisable again to thoroughly wash off their it is advisable again to thoroughly wash off their
hind parts and disinfect the stable in which they have been kept. Cows which have aborted should not be elapsed, and not even then if they show any signs of discharges coming from the genitals.
and The bull, each time after serving aborting cows,
and berving healthy cows, should have the end and insicle of the sheath washed with a mild antiseptic
solution, such as a one per cent solution of lysol or
a three per cent. borax solution. In treating the inside a three per cent. borax solution. In treating the inside
of the sheath the ant iseptic solution can be injected with
time to ti highly prai
The ca popular for
in dram dos pregnancy advocated or two tea
five or six acid and their cura capable of to be of
greatly

September 4, 1919
THE FARMER'S ADVOCATE.
time to time certain agents have been used and were
highly praised for a time as a likely cure.
The carbolic acid treatment, which was particularly
popular for a time, consisted in administering it daily,
in dram doses, or at intervals of several days throughout
pregnancy. Another drug, known as methylene blue, has been
Another drug,
advocated as a likely cure. It is given in doses of one
or two teaspoonfuls daily in the feed
five or six weeks.
acid and methylene blue need be taken, nevertheless
their curative value has been over-stated. In fact,
the usle of judging as to their merits has shown them to be of no lasting
More Vaccine Treatment.
More recently the treatment of cows and heifers
for abortion is being undertaken by means of special
or protection against infection. The bacterins are
composed of killed abortion bacili in suspension, and
for infected cows during the first half of the term of
not as yet proved altogether as satisfactory or successful
in conferring immunity or protection as expected.
cultures of the bacilli, and on that account are only
be administered to heifers and non-pregnant cows from
one to two wonths before breeding. It is not advisable
to use the vaccine on pregnant animals nor in herds in
which the disease is not present.
The preparation and use of abortion vaccines are
as yet largely in the experimental stage, and the evidence
at hand so far is only sufficient to recommend their
use in affected herds on heifers and non-pregnant cows
before breeding as a means of assisting materially
in obtaining living calves at full term.
in obtaining living calves at full term.
How to Obtain Vaccine.
The Health of Animals Branch of the Department
of Agriculture at Ottawa will supply qualified veterinary
surgeons, with contagious abortion vaccine, free of
charge, providing an owner of cattle makes a request
furnishes the name and address of the veterinarian he
desires to employ and the number of animals to be
treated. On receiving such a request the vaccine will
be sent to the veterinary surgeon, with directions as to
Owners desiring toi avail themselves of this arrange-
ment may do so by writing to the Veterinary Director
Abortion vaccines are also sold by commercial
veterinary surgeons and used under their direction
Summary of Leading Pornts.
1. In purchasing pregnant cattle, make careful enquiries in order to ascertain if the herd from which
disease, keep the newly obtained females separate until
they calve.
3 . As soon as a cow aborts remove her to a
4. Thoroughly clean and whitewash the stalls the stalls should be burned, together with the aborted
5. Wash off the hind parts of all the exposed
pregnant cows with an antiseptic solution.
6. Cleanse the genital passage of the aborting
animal with mild, warm antiseptics. This should If repeated daily until the neck of the womb closes.
of antiseptic powders in capsules. If
7. Do not allow cows with retained after-births
to remain in stalls adjacent to other pregnant cows.
8 . Keep aborting cows separate from the others
so long as they are discharging. Wash their hind parts


A Yorkshire Sow of Good Type.



Corn and the Silo.
Editor "The Farmer's Advocate"
The fodder question is a very serious one through-
ut this County. The grain crop being very light and the straw exceedingly short, it throws more responsibility on the corn and silo. This crop is promising in many
parts of York County. However, there is much that was put in under very unfavorable conditions, where need of roughage exists, it is quite necessary that we and the question is how to preserve it in the best possible manner. Of course, the silo is a way that has been most
extensively used to preserve corn, but the silo is often misused with the result that dissatisfaction is caused
and in some cases the silo is condemned, even without a fair trial.
When should corn be harvested? This is one of the first questions we have to discuss and it must be decided corn is matured the more feed and the better feed I get. than allow it to get a heavy frost, and just in this locality I think it wise to cut it as soon as possible after the as soon as you get your machine out." He never gets
it out too soon, and sometimes has hard work to keep the box going the first week. enough men and teams to keep the box running, the remainder are sent to the silo. My silo is 12 feet in
diameter and when I can secure a distributing pipe 1 want four men in the silo, in addition to the man or possible to secure a distributor, a man can substitute to good advantage by erecting a platform at the mouth before it falls to the bottom. This makes it unnecessary to do any forking.
Never leave the corn lying on the damp ground, as it is sure to must, and when it is put into the silo The silo should be air-tight and great care should
be taken to make the doors fit. Where the doors do not fit tightly, fill in the cracks with wet cement, as wet as it will stick.
1 do not think this question gets enough discussion
in the columns of farm papers. in the columns of farm papers. myself feel that I features in connection with the successiul ensiling of corn,
and \(I\) am anxious to hear from beginners as well as York Co., Ontario.
W. E. Thomson.


THE FARMER'S ADVOCATE.

Preparation for a Wheat Crop. Some interesting information in regard to wheat i
contained in the fifty-seventh annual report of the contained in the fifty-seventh annual report of the
State Board of Agriculture for the State of Michigan State Board of Agriculture for the State of Michigan,
and, since climatic and soil conditions there bear considerable similarity to those found in Ontario, we are drawing attention to some of the more important features After dwelling on varietios report.
of land for wheat, the author, I. F. Cov has theparation ing to say regarding lime on acid soils, "From followto four bushels increase can be expected in the wheat crop after a suitable application of limee where needed. Acid phosphate and other fertilizers are much more effective on soils well supplied with calcium carbonate. An indirect benefit, but an important one nevertheless, is the great increase in the stand of clover secured after liming. Two tons of finely-ground limestone, or two cubic yards of marl, or 1,500 pounds of hydrated lime are the amounts usually applied
Dwelling on the matter of preparing the soil and
supplying fertilizer to supplying fertilizer to insure a good stand and an abund-
ant vield the writer ant yield the writer makes these observations: "Manure
is the most effective fertilizer used on on preparing wheat land, an applilization of the farmure at the he crop for not tons to the acre will greatly benefit water-holding capacity of the soil also is greatly increased Michigan Agricultural Coe Experiment Station of the disking in of manure appliege, strter pgly advocates the
wise, however, to mang. It is not wise, however, to manure land which is high in organic
matter previous to planting wheat. matter previous to planting wheat. Just before wanter
a light topdressing of manure or straw will prove very efffective in in peseving of manure or sinter killing wall prove very
wheat a good in giving the ineat a good start in the spring. Ma nure, however, is dencient in phosphorous and the benefits derived from
its use wll ibe greatly increased if it is reinforced with
acid phospe its use wll be greatly increased if if
acid phosphate or rock phosphate.
fanning mill will pay for itself in a short time. All seed wheat should be thoroughly fanned before treating
with formaldehyde in order to remove smut balls." Fall wheat has always been more or less of a crop in Ontario, and there is no doubt, but what some fertilizer intelligently applied would reduce the rime
Especially on late sown fields would seme easily able commercial fertilizer give the crop a boost and fender it more resistant to inclement winter weather.

Elgin County Farmers Visit Middlesex.
sit different parts of the country For farmers to visit different parts of the country. For several years
parties have been organized in several counties, and trip taken to neighboring counties, where prominent herds and farms were inspected. These outings some times lasted two or three days, and were not only a real holiday but were very instructive. It permits the farm ers to see methods carried on in neighboring counties their neighbors. If a to get better acquainted with open, he is bound to see something efes and ears value wherever he goes. Possibly the of interest and excursion was held on Friday August 2n theners one hundred automobiles, carrying Elgin County farmers and their families, toured a portion of Middlesex County. C. W. Buchanan, the District Representa tive, and the executive of the Board of Agriculture arranged for the trip and left no stone unturned that would add to the pleasure of the party. The pariv a procession and motored a prearranged time, formed an hour was spent in looking over the build dings where inspecting the crop and herd over milking Shildings and
From Werthorns. From Weldwood, the party proceeded to Springbank
Park, where they Park, where they picnicked, after which a number of
addresses were delivered by members of the County
Councils of
 or moth Elgin and Middlesex, and by cther

Meadowsweet Jewel 2nd


Haton County Stort
mee by Max Hesto, Palermo






 "Acidp phosphate is onatriment.








 first time the majority of the party parium. It was the
stitution, and they were loud in their this inwhich is being done to alleviate the suffering of work
affected Stock Farm, the home of malady. Alloway Lodge visited, and the herd of Aberdeen-Angus, was then flock of Southdown sheep were greatly admired and number of the breeding stock were lecd out for inspection, A
and the breeding and show-ring records cited by Colonel
McEwen. Institute, where Reverend Mc Mas spent at the Muncey the institution, explained the work that is being done
for the Indian children. long be trip was thoroughly enjoyed by all and will there is bound to be a few course, in all such trips
way at an inopile tires which give way at an inopportune time and cause a temporare anpleasantness for the occupants of the a temporary
"ver, the executive in charge How ver, the executive in charge of the trip had an expert
mechanic along to look after any auto troubles which
mipht do


Oils and Lubricants For Engises To look at a smooth hearing surface of \(1 .\). engine projections surfaces are really covered with very fine cven a bearing surface that if ex very finely finished will without oil or some less rough. If these bearings were run on closely-fitting parts would interlock as they pass.
each other, and a great deal of friction would result. It requires power on the part of the engine to over-
come any friction that is developed, so that to get the with the old homestead
greatest amount of efficiency foped, so that to get the County. This Boys' and Girls' Club idea has Halton strength rapidly in Ontario during the last year and a haff, until now there are twenty-two clubs year and a Not only are there calf clubs but sheessful operation,
miscellaneous live-stock miscellaneous live-stock clubs as well. For instance, there are twelve pig clubs now organized in Ontario,
distributed among the following counties. Dundas, Essex, Grey, Haldimand, Peel, Victorin, \(3_{\text {; }}\) Wentworth, each one; and Lennox and Addington and varying in age from hix to distributed Yorkshire pigs six to nine months old, except the Essex Cows from distributed Duroc-Jerseys. Among the calf, which Shufferin, Halton, Kent and Welland each have one Shorthorn club; Lennox and Addington have a Shorthave Dairy Calf Clubs. In addition to theounties there is a sheep club in Peel County, and these clubs include all kinds of live stock in Brant and Waterloo
Counties. iltoge
in each of these twenty-two boys' and twenty members over the whole Province, there are nearly 450 boys and
girls who girls who are now members of these clubs and are
raising a pure-bred calf or a The club which has the largest membershi a sheep. Neal County Calf Club, which was organized just tributed both. It has fifty-eight members, and disand Jerseys. These heifers were from Holsteins, Ayrshires four months old and were bred so thenty to twentywith good luck, every member of the club will have his original eaff, or heifer, and her chub will hav
 forty-nine members, the Essex Pig Club with forty-
seven members, and the Dundas Pir Club with fortyix members, have also been doing good work The illustrations shown here are from pictures taken weeks ago, and show She calf belonging to Boble twie McLean, whose heifer made the greatest margin be-
tween the cost plonging to Bobbie tween the cost price and her sale price. The white
heifer was owned heifer was owned by Max Heslop and was declared by
Prof. G. F. Day, who judged the calves, to be in better sale condition than any of the others

AUTOMOBILES, FARM MACHINERY AND FARM MOTORS. ine
ink
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will


\section*{1590}

THE FARMER'S ADVOCATE.
"At present there are comparatively few cities in the at prices which are lower than those prevailing on
milk dealers' retail delivery routes. Perhaps the main reason for this condition is the fact that under a dual
system operated by milk dealers themselves and retail stores supplied by the same or other milk dealers) it is im
possible to possible to realize the economies inherent in an ex
clusive, or out-and-out, store system of retailing milkthe per quart cost of retail route deliveries increase as the volume of retail store sales increases. Unles dealers specialize on wholesale deliveries they canno usually so organize their sales on delivery routes as \(t\) t
obtain the maximum loads; nor can a milk dealer afford to supply stores at prices substantially lower than his own route prices, when such stores are selling in com

With reference to the large cold storage warehouse to be constructed by the Dominion Government at
Montreal to facilitate our export trade in animal and Montreal to facilitate our export trade in animal and
dairy products, J. A. Ruddick, Dairy and Cold Storage dairy products, J. A. Ruddick, Dairy and Cold Storage
Commissioner, Ottawa, spoke recently as follows before the Cost of Living Committee of the House of Com mons: "A large cold storage warehouse now under conwill be situated on the docks. will have traek Montreal, with all railways, and will have at least one steamer
berth where goods can be loaded direct. The location istrict Provision will bo made for present produce rom the cars into the'warehouse, and from the warehouse irect to the steamer. This warehouse will have a total capacity of two million cubic feet and will cost in

\section*{HOR TICULTURÉ.}

\section*{Standard Of Judging Vegetables} The following standards for judging vegetables, as
adopted at the 1919 session of the Manitoba Horticural Association, were originally prepared by J. A. Neilson now Lecturer in Horticulture at the Ontario Ag
tural College, Guelph. It is the results of three of preparation and teevision, but we understand that was neesarary at the last annual meting to make only
a fee minor changs. Readers who intend exhibiting
 intend practicing selection work, would find these
iudsing standards saluable in this work. It must

 size suitabe for table use, should govern all awards
AspaRA A U Us.-Shoots should be thick, of mediu length and uniform in thickness, tender, and free from Beans: Broad.-Straight, broad, well-formed pods, filled with large, tender beans. Free from disease,
Size of bean and length of pod to be determining factors. String Beans.- Pods should be long, straight, moder-
ately broad, tender and free from disease. Pods should
 and free !rom side roots, gradually tapering from crown
to tip, and firm in texture. Cross-section cuttings
should show fine dark red, tender flesh, free from white shoup, show fine dark red, tender flesh, free from whit
lines. Top small and compact. Roots should be uni.
form. Round.-Medium in size, firm, flat or round i form. RouND. - Medium in size, firm, flat or round in
shape, smooth, with a fine tap root. Flesh should be
tender, firm, fine, and of a dark red color. Roots should




 Compact, of a dark green color with a fine curl. Cood
 straiaht and smooth, without anys green at the crong,
have a small compact top, be free rrom side eots, and
and
 should be uniforn. Hatr Lova. Half long, striaght,
free from side roots and gradually taperink with or
 be tender and have a rice thavor Roots hesh should
uniorme Suort.-Short, straikht, of true ouxh be



thicknoss and coler, neck short, and should be young
and tender. OUTDOor.-Specimens should be of good and tender. OutDoor.-Specimens should be of gooo
form, straight, with thickness carried well out towards
the ends; of, a dark green color and heavy wigh the ends; of a dark green color and heavy weight. Lettuce: Cabbage.-Heads should be large, well LETTUCE: CABBAGE.-Heads should be large, well-
from any compact, composed of crisp, sweet leaves, free from any discoloration: Cos.-Conical in shape, with crisp and with a firm hea
Onions: Large.-Shape globular or flat, according to variety. Should be smooth and even in form, of
good weight and color, and have a small well-ripene neck, with solid, firm texture. especially at the base of in diameter, be uniform in size and shape clean firm and white in color. Specimens should be uniform. Parsley.-Head large and bushy, with numerous
finely-curled dark green leaves, which should be crisp finely-curled dark green leaves, which should be crisp
and free from discoloration of any kind. Parsnip.-Should be of medium length, broad at top, gradually tapering from crown to tip, smooth and
straight, skin free from rust, firm in texture, and have a small core. PEAS.- Fods Iong and straight, dark green in color
and well filled with large, sweet-fiavored, tender peas.
Samples should be uniform in size and color and not over-ripe. Free from blemish.
Potatoes.- Secimens shour be of good marketable size, with smooth, even shape
firm, solid, flesh, fine and white in color, and clean an free from disease of any kind. Potatoes with shallow eyes are preferred to those with deep eyes. All pota-
toes exhibited in different classes should be true to type large, thin-skinned, firm in texture, with deep yellow creamy-yellow color according to variety.
RADISH: SUMMER.-Medium size; smooth, even form free from blemish and side roots; ; irm texture and mild
flavor. Cross sect ions should show solid, fine white flesh. pecimens should be uniform. Winter: Large.-
Conditions as above to apply. RhUBARB,-Stalks medium in diameter, long, straight tender, smooth, and bright red in color.
SALSIFY.-Large, clean smooth and finely tapered.
SpINACH.-Specimens should be large with heavy Soliage; broad, dark green tender leaves; free heavy disease and insect injury.
SQuASH: WINTER.-Should be large, heavy, and firm in texture, with color and shape according to variety. Vegetabie Mas above to apply; . smooth and even, with - unifgerm thicke, oblong in form,
weight. Texture firm and good weight. Texture firm and in condition for table use.
Color varies from a creamy yellow to green. Tomatoes.-Medium in size, with an even, well-
rounded shape; smooth, fine, well-colored skin, firm rounced shape; smooth, fine, well-colored skin, firm
texture. Not over-ripe. May be pink, bright red or
yellow. Specimens should be uniform Free from yellow, Specimens should be uniform. Free from
blemish.
Turnips.-Medium size, with TURNIPS.-Medium size, with smooth, symmetrical
form, free from side roots, firm in texture and heavy,
Cross-sections should show fine firm evenly colored Cross-sections should show fine firm, evenly colored
flesh. Color varies from white to light yellow accord-

\section*{POULTRY.}

Killing and Plucking Poultry

of free bleeding which practically prevents it from bein
used where birds are to be held in stovage used where birds are to be held in storag in severing the arteries of the neck method, and consist knife inserted in the mouth. When the feath amal to be removed by the ordinary scalding method, the mere severance of these arteries is sufficient, but if the
plucking is followed the muscles of the feat paralyzed by further piercing the brain. factory knife for sticking can be made by using an eightinch flat file and grinding this down on an emery wheel, long over all, with the blade two inches long and inches about a quarter of an inch wide. The cutting only hould be straight and sharp, the ordinary cutting edge on some knives not being satisfactory for this purpose
Before sticking the bird, it should feet with a small rope or cord. Ae hung up by the is to use a rope with a small block attachmon method and with the other end fastened to a pole or a stringer of some kind overhead. The end of the rope on which
the block is attached is wrapped around the fewt the block is attached is wrapped around the feet and
then the block dropped in between the feet and the rope When hanging up, the feet should be about level with he shoulders of the person doing the killing and plucking. taken with the thumb and forefinger at the juncture be the neck and head so that the under side of the head faces the operator. The knife is then inserted in the mouth, about the full length of the blade, and with the
edge of the blade turned down, a rather heavy cut should be made with a drawing stroke of the knife. This will sever the jugular veins at the point where they unite at the back of the head, and if the cut has been
made properly the bird will bleed freely made properly the bird will bleed freely. Where dry
plucking is to be followed, the blade should then be turned over and the point inserted in the slit or groove in the roof of the mouth. A quick push backward
will pierce the brain, and the chicken will squawk. If it does par the chicken will immediately is not pierced, and plucking will be much more the brain These two operations can be completed practically efore bleeding is well started, but immediately afterWard a blood-can should be attached to the lower bill. prevent undue movement on the part of the bird The chicken should then be immediately plucked
the long wing feathers and tail featherd first, then the breast, the legs, and finally being removed Discussing the dry plucking of fowl Bule of the Ontario Agricultural College says: "Do 24 cry to pull the feathers either forward or backward, but more sideways or at an angle. The rough or coarse as the more quickly the feathers are time possible. sticking, the easier they will come and the less danger wing feathers grasp both wings in the left hand them all at one stroke of the in the right, removin the right hand to the tail, grasping all the feathers
in the tail, and with in the tail, and with a slight twist remove with
a second stroke of the right hand, and so
different section feathers sections of the body. To remove the pin ordinary paring knife. Be careful not to rub or barl the skin. This may be done very easily by rough
handling, or by placing the chicken in contact with coarse clothing, hence do not put a chicken on your lap hold the you should unfortunately, tear the skin hold thumb and first finger tightly to the body between eathers near torn part Anyone witho reme the rough remove the rough feathers in from three to five
nutes. Expert pickers will do it in from three.

The birds should be plucked clean, the blood washed

\section*{FARM BULLETIN}
eware of Fraudulent Subscription
bscription agents and we desire working this Province during the fairs, scribers against any misrepresentation that may be mate sure your receipt reads:' The Farmer's an agent make Home Magazine," London, Ontario, and do not accept have a similar name, but there is only one which bears
haver hake sure before paying your money that these words more, see that the address is London Ondario We sound this note of warning that farmers may not have
other papers foisted upon them which they do not
desire and desire and would not subscribe for. Please report imagent seeking subscription from you who cannot show We will proos that he is authorized to act for us.

\section*{Victory Year at the Canadian National.}












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 hateylural exhitht but the Ontario Veterinary Colege)





The Fountain at the National.
We stail not attempt to tececribe the interior of the T woman's paratise, and even men were wont to strol
there under the pretence of accompanying their wives or lady friends, Under the Crand Stand was a grand
array of Dairy equipment, cleaners, wasting machines,


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\(\qquad\) sant med ar of disabilities are obliged to re-educate themselves for occupations which suit their infirmities. In the out-
door agricultural section there were a few new features predominated, but many labor saving devices were
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\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) of potatoes upheld the reputation of the country as a seed potato district, while the grain and grass seed were
further evidence in favor of that vast agricultural territory now awaiting settlement. Whatever the
hardships of the modern pioneer may be, it is certain from this exhibit that drought was not a contributing
factor during the season now past, when older settled districts were crying out for rain.
Another extensive exhibit of specia! interest to sheep raisers was that prepared by the Live Stock Branch
Ottawa. A full-size sheep-dipping plant was shown,
focd feed-racks, pens, creeps, etc., of most up-to-date design
were displayed and the proper kind, as well as the type
of loreeding stock not to use were actually on exhibition of breeding stock not to use, were act ually on exhibition, all the equip onent necessary to conduct it properly.
The more inportant features from an agricultural
\(\qquad\)



\section*{live-stock industry of Canada gives every promise o
xpansion, for under the most unfavorable condition} known in years (in regard to feed, labor, importation and all factors which have a direct influence in the
business) the live-stock department of the Canadian ational maintained its high reputation and in some

\section*{Dairy Cattle}

The showing of dairy cattle at the National is eve
one of the most interesting features of the live-stoc lasses, and, for that matter, of the whole exhibition, o those who are to any degree inteested in agricul
ure. There is no discounting the very great value the dairy industry and, admitting this, the pure-bred factor in the success of the industry. Numerically the It might be possible to assign very good practical reason breeders, or breeders new to the show-ring do not breeders, or breeders new to the show-ring, do not
appear at the National and assist the cause of the pure-
bred and their own particular choice of a breed more Of course, there are brecders every year who, early
in the season, make up their minds to show, but who for a variety of, reasons do not finally come. Sometimes
these reasons are really good, but occasionally they appearmore the result that good type in useful animals are deprived of good entries Inexperienced exhibitors are prone to reason that the "big men" will get all the good placings and preferentia wrong and unfair, and if it does, unfortunately, happen in certain cases, there is no surer way of securing fai treatment for all than to add to the number of ex
hibiters.
Most fair boards want honest judging: mos judges and breeders want to see justice done; and it only the odd man, to whom money is more than honesty who occasionally succeeds in spoiling the gocd sport

Holsteins.-The Holstein satisfactory in either numbers or quality as last year could be desired, but, generally speaking, the classe were not as uniform as they should be. Black and white hold an enviable reputation as a great dairy breed, an prove a deterrent to progress. During the last few
years the outcropping of millionaire speculators in high records has led to too near a vision of the almighty dollar for the good of the breed. Perhaps the recen
upheaval in American Holstein circles will provide u with a new perspective and lead to more progressiv development of the breed for the breed's sake. E. S
Archibald, Director Dominion Experimental Farms, Ottawa, placed the awards.
The senior bull class numbered thirteen and con stituted as fine a showing of senior dairy sires as the large number were absolutely uniform, for this could not be said, but for a class of such numerical strength, the uniformity was excellent. Last year's senior and gran champion, Bonerges Hartog, again won premier honor that this bull is a magnificent specimen of the breed standard dificult to and even lines constituting standard difficult to surpass. He handles as well a
he looks and were he a little longer, little more could be desired. Prince Bonheur Abbekerk, last year junior champion and runner up for grand honors, wa a second in the aged class this yeaf. He is a strong bul but he was good enough to win from Count Plus Inka Sylvia, a lighter bull not carrying the same fleshing Fourth position was ably filled by Avondale Segi
\({ }^{\text {fifth}}\) Two-year-old bulls were only three in number, le by Count Paul C. Posch, last year's winncr as a junior
yearling. This fellow is a very clean-cut individual yearling. This fellow is a very clean-cu individual Alcartra, winner of second honors, carried sufficien quality to win. King Korndyke's Lulu Keyes looked well in third position. He was too fat and lacked the
strong top and good heart girth of King Fayne Alcartra although the latter is perhaps slightly coarse in front.
Sir Valdessa Banks was a lone and none too worthy representative of the senior yearlings, and he was wel comped with a second prize. Nine bright ones mad quality and character combined to send Riverside ir Toitilla Hartog to a well-merited position at the top.
He was in splendid fit and handled beautifully. King Paul Pontiac Echo reached second place over the depth and conformation of Elmcrest Teake Netherland - =atan \(2+2+3\) \(-2+2\)

harelly as well topped, but the latter easily beat King
Colanthus Valdessa, relegated to The aged milking cow class saw ten pretty fair
females lined to third females lined up. They were not a uniform lot, bair
there were nevertheless some excellent individuls among them. Homestead Susie Coxcantha led off, and fitting, but won on type and udder over too. She lacked Posch, an older cow showing her age somewhat at the year's senior and Brand championt pe Mechthilde, last notwithstanding that she forped the was forced to third, place last year amid greater numbers. She has yocond and freshness, but her back udder shows unevenness. momewhat in smoothness and fourth because she lacks a good working cow class. Orly three thre-yeare in milk were an unsatisfactory Maid 2nd, eventually senior and aside from Francy breed had nothing to boast of. She, however is antre the backed and strong-bodied cow with a good ultongThe two-year-olds were much better on the whole and Wolantha achieved second in aroness. Pauline Mercena Braeside \(S_{\text {s }}\) is Fern to third, while Manor Keyes Sumrville stcpped at fourth position. good matrons. These were cows four yeare led by ten Quality was essential to leadership here, but Lucy ovray had more than enough to head the line. She had adition, notable veining and a strong back. Following past winner at Ottawa, but she needed ndid cow and or repeat at the National this year. The quality girth ever, forced Bessiie Belle Banks to third, althoug Maple Grove Rose led the th
in calf, followed by Bessie Belle Fayne and dry cows hew Mary Abbekerk. Seven good animals and Censtre
this class. Among the two-year-old Oakhurst Midnight the two-year-old heifers in calf, with quality and capacity. Her nearest neighbor was Patricia Colantha Abbekerk, that, with a little less
quality and depth yet easily led Clara Spring

Clarkson, Ont.; Haley \& Lee Springford, Ont. Dyment Bros., Dundas, Ont. \& Lee, Springford, Ont; Dymen
Ont.; James Rettie, Norwich, Ont. Schell, Woodstock Co., Milton, Ont.; W. C. Prouse, Tillsonburg Oric ville, Ont. :C Norwich, Ont.; Allied Stock Farm, Wilson Burgessville, Ont.; T. A. Trick, Clinton, Ont. II F Brethour \& Nephew, Burford, Ont.; J. S. Watson Woodbridge, Ont.; Sir John C. Eaton, Toronto, Ont. Bonerges Hartog; 2, Marshall, on Prince Bonheur
Abberkerk. Abbekerk; 3, Watson, on Count Plus Inka Sylvia; 4, Gooderham, on Avondale Segis Korndyke Pontiac; 5, Brick, Co., on Major Sylter Baron Colantha; 6, Milton Press Colantha Fayne Butter Baron. Bull, 2 year (3): 1, Hulet, on Count Paul C. Posch; 2, Haley \& Lee, on King, Fayne Alcartra; 3, Gooderham, on King Kornon Sir Valdessa Banks. Bull, junior yearling (9):
Dyment Dyment Bros., on Riverside Sir Toitilla Hartog; 2,
Hulet, on King Paul Pontiac Esho Hulet, on King Paul Pontiac Echo; 3, Hilliker, on EIm-
crest Teake Netherland; 4 , Haley \(\&\), Sylvius; 5 , Prouse, on Duke Aaggie Colantha; 6 Calamity ham, on King Keyes Tensen; 7 , Trick, on Joseph Canary Keyes. Senior bull calf (7):1, Rettie, on Duke Ormsby 3, Schell, on Sir Colantha Shadeland Segig: 4. Valdessa; Bros., on Hartog Colantha; 5, Haley \& Lee, on Sir Sylvia Colantha; 6, Gooderham, on King Artis Keyes;
\(7, \mathrm{~J} . \mathrm{S}\). Watson, calf (6): 1, Gooderham, on King Nicolo Junior bull Keyes; 2, Hulet, on Count Paul Ladoga 3 Korndyke King Colanthus Valdessa; 4, Trick, on King Segis
Warker; 5 and 6 , Allied Stock Farm, on Braeside Pontiac Walker; 5 and 6, Allied Stock Farm, on Braeside Pontiac
Prince and Allied Howtje Posch. Cow, 4 years and over, in milk (10): 1, Haley \& Lee, Pauline Colantha Posch and Della Schuiling De Kol Gooderham, on Manor P H Pietertje Mechthilde; 4 Farm, on Faforit Kent; 7, Schell, on Helen Panarist 1. Rettie, on Lucy Gray; 2, Gooderham, mot milkirg (10)

Jeanette Sylvia Fayne, Jean Sylvia Fayne and A
De Kol Sylvia: 3 and 5 . Het and Madam Pauline Sylvia 2nd; 6, Goodlerham, Ladoga Manor Keyes Nicolo; 7, Dyment Bros., on Canan De Kol Tensen; 8, Rettie, on Bessie Atlas Colanthus, Senior and grand champion male: Halcy \& Lee, on
Bonerges Hartog. Junior champion male: Rettie on
Duke Ormshy Duke Ormsby Mercena. Senior and male: Rettie, on emale: Rettie; on Francy Maid 2nd. Junior champion emale: Hulet, on Lassie Echo Abbekerk. Junior champion
Senior herd: 1 and 5 Hhe Bonerges Hartog and King Faley \& Lee (herd headed by (Pontiac Atlas Colanthus); 3, Hulet, (Count 2, Rettie, Posch); 4, Gooderham, (King Korndyke Lulu Paul C. 6, Dyment Bros., (Smithdale King Colantha); 7, Allied
Stock Farm, (Manor King Ser get of one sire: 1 and 4, Haley \& Inarnyke).' Three, Sylvia Pontiac Cornucopia); 2 and 6 , Hulet of May Colanthus); 3, Rettie, (Prince Colanthus Abbekerk): 5, Gooderham, (King Korndyke Sadie Keyes); 7, Two, progeny of one cow: 1 and 5, Haley \& Korndyke). of Nettie Fayne 2nd and Shadelawn Colantha Oueeny. 2 and 7, Hulet, (Pauline Colantha Posch and Lady Kent); 4, Rettie, (Bessie Posch Francy 2nd), (Maggie (Oakhurst Butter Girl 3rd). Junior 2nd); '6, Pro se, (herd headed by King Paul Pontiac Echo); 2, Haley \& Mercena); 4, Dyment Bros, Rettie, (Duke Ormsby Hartog); 5, Gooderham, (King Nicolo Korndyke Keitilla Colonse, (Duke Aaggie Colantha); 7, Schell (Seyes) \& Lee; 2, Hulet: . Segis). Breeder's herd: 1, Haley 6, Allied Stock Farm; 7, Dyment Prouse; 5, Schelf 8 raded herd: 1, Haley \& Lee, 2, Hulet; 3, Gooderham 4, Prouse; 5, Dyment Bros.; 6, Allied Stock Farm; 7.

Ayrshire-Five Ayrshire breeders, brought out a
memorable showing of the "bonnie" Scotch breed.
Not only were the quality and character of the entries surpassed that of quasity and character of the entries surpassed that of
past shows. There is a marked uniformity


Maple Leaf Jean


Lessnessock Golden Love
Senior and grand champion Ayribsire bull act hat Canadian Nove.
Owned and exhibited by Githert MeMillan. Humlin Exhibition. Toronto, 1919
Twelve senior heifer with the makings of a splendid Nettie Fayne 2nd. Cow, 3 years old in milk (3): 1, to have the same ideal in mind. Alf Kains of Byron,




 Another twelve snappy heifers came out as junior Ke Braeside Segis Fern; 4, Coooderham, on Manor lengthy, well-filled with a smooth, neat shoulder and fearlings and made some real thought ful work necessary Aeyes Summermill; 5 , Hulet, on Ladoga Idaline Mercerit anghy, well-filled quarters. The Turner, bull is also win, on adge. Mercena Segis Lass finally scored a A.; 6 , Dy ment Bros, on Pauline Pontiac Eche Mercerat as hion anmal, but with scarcely as fine dairy quality
隹




\section*{Kains of Byron}

September 4, 1919
THE FARMER'S ADVOCATE
calves made a strong class and show indications of
developing into promising herd sire material. The aged cow in milk, one of the best classes of
the females, presented no surprises, but it did leave room for some differences of opinion. Chapmanton the end none of the remaining seven entries challenged the position. She is too well known in show-
ring circles to require individual comment and suffice it to say that for dairy type and Ayrshire conormation she is one of the best. However in com-
parison with Maple Leaf Jean, the winning aged dry cow, she lacked a trifle in substance and capacity, which added to the fact that her udder, while carried we
forward, ends somewhat abruptly, threw the odds favor of the dry cow when it came to a senior championship test. Any difference in opinion concerning the decision where age was considered there being difference of four years with youth on the side of High-
land Lady, whose splendid style and good udder, coupled and Lady, whose splendid style and good udder,-couple stronger argument than the superior capacity of the
cow in third place. The latter might appear a trifle coarse to the critical observer especially when compared
with the others. Gem of Primrose House got fourth money and she was more of the type represented by ame forward and returned with Humeshaugh Helen 3rd in the lead
Here was a case of pleasing udder formation and Here was a case of pleasing udder formation and good
veining combined with Ayrshire style. This individual has plenty of length and with years will deepen down,
no doubt, into a cow with plenty of machinery where no doubt, into a cow with plenty of machinery where
it is needed. Selwood Snowdrop was a good second, but she did not have the develop
dder exhibited by the Hume entry There were five two-year-heifers in milk presented,
but it was not a strong class. Any one of the first without any great injustice to exhibitors. Humeshaugh Nan 3rd which appeared somewhat chubby owing to bloom and well-placed teats on a promising fairly good conformation, but she will never win in highclass company. She was second and next to her came
Springburn Actress, a milky-looking heifer, with some claims to a higher placing, in that particular company.
There was nothing to choose from further down the The three year olds and over not in milk were eleven
strons, It was a class which arrested the attention strong It was a class which arrested the attention
ot thatree crowd of spectators. In it were individuals




 contormation was second with Burnside Maggie Finlay-
ston 5 th in third This cow has woi higher honors
in the patt
 in excllentht uldice had a good deal of scale and carried


 Acale and was not quite so highly fited.














Peter. Heged cow, in milk, (8), 1 and 3 , Ness, on Chapmanton
 lows. Cow, 3 years, in milk (4), 1, Hume, on Humes. haugh Helen 3rd; 2, Stansell, on Selwood Snowdrop; Nancy 4th. Cow, 3 yrumsnie Primrose and Netherto (11): 1 , Hunter Bros., on Maple Leaf Jean; 2, Turner
on Betsy Brown ; 3, Ness, on Burnside Margie Finlaysto 5th; 4, Stansell, on Selwood Pride; 5, McMillan, on White Star of Cedarcroft. Heifer, 2 years, in milk, (5): 1 Mume, on Humeshaugh Nan 3rd; 2, Ness, on Whitehil 4, Turner, on Miss Floss of Springbank 2nd; 5, Stansel on Selwood Pride 2nd. Dry two-year-old heifer: 1 Turner, on Dainty Lass of Springbank; 2, Hume, on
Burnside Nellie Bains 2nd; 3, Stansell, on Selwood Burnside Nellie Bains 2nd; 3 , Stansena, on Selwood
Dairymaid; 4, Ness, on Burnside Emathla Blossom. Heifer, senior yearling: (9), 1, Ness, on Burnside Randy
3rd; 2 and 4, McMillan, on Springburn Belle and Spring 3rd; 2 and 4, McMillan, on Springburn Belle and Spring-
burn Chance; 3, Hume, on Humeshaugh Kate 3rd; 5, Turner, on Springbank Lady Jane 4th. Heifer Junior yearling: (5), 1, Ness, on Burnside Emma Blossom 2, Stansell, on Selwood Leading Lady; 3 and 5, Hume, on
Humeshaugh Helen 6th and Humeshaugh Snowdrop 4th Humeshaugh Helen 6th and Humeshaugh Snowdrop 4th
4, McMillan, on Springburn Genta 2nd. Heifer senior calf: (11), 1, Ness, on Burnside Henny Chapman
2 and 3, McMillan, on Springburn Lovely Cherry and Springburn Lovely Rose 3rd; 4, Hume, on Humeshaugh Eva 4th; 5, Turner, on Heather Belle of Spring burn Lovely Duchess; 2, Ness, on Burnside Sunbeam; 3, Turner, on Edith Cavell of Springbank; 4, Hume, on
Humeshaugh Snowdrop 3rd; 5, Stansell, on Selwood Humeshaugh Snowdrop 3rd; 5, Stansell, on Selwood
Primrose. Cow having official record in the Canadian R. O. P. test, begun at 5 years or over (prizes awarded
on the basis of 100 points for perfect conformation plus one point for each 500 pounds of milk and one point for each 20 pounds fat, over and above the amount required
to qualify. Each prize-winning cow must score at least 80 points for conformation and must be recorded in the Canadian Ayrshire Herdbook: 1 and 2, Turner,
on Betsy Brown(conformation \(90+\) R.O.P. \(30.34=120.34\) ) and Springbank Daisy Star \((84+24.44=108.44)\); 3 Chapmanton H Violet of Kelso \((85+16.81=101.81)\) and official record in the Canadian R.O. P. test, begun under 5 years (prizes awarded as above): 1 , Hunter Bros., on
Maple Leaf Jean \(96+17.38=113.38 ;\) and 3 , Turner on Mriery of Springbank 3rd \((85+21.26=106.26\), and White Lady of Springbank ( \(87+16.42=103.43\) ); 4, Stansell, on Highland Lady ( \(90+10.26=100.26\).) Turner cup for best Canadian-bred Ayrshire cow (prizes awarded as
above plus five points if either sire or dam have qualified in the R, O. P. or ten points if both have qualified): Hunter Bros., on Maple Leaf Jean (96+17.38+5 for
dam \(=118.38\).) Senior and grand champion male;
McMillan McMillan, on Lessnessock Golden Love. Junior champion male: McMillan, on Springburn Golden
Moon. Senior and grand champion female: Hunter Bros., on Maple Leaf Jean. Junior champion female:
Ness, on Burnside Randy 3rd. Graded herd. (herd headed by Holehouse Hopeful); 2, McMillan, (Lessnessock Golden Love); 3, Turner, (Humeshaugh
Invincible Peter); 4, Hume, (Humeshaugh Perfect Peter); 5 , Stansell), (SSelwod Ideal Rosewood). Three
animals, get of ofe sire: 1 , Ness, (with progeny of Hole animals get of one sire: 1, Ness, (with progeny of Hols-
land Masterpiece); 2, Hume, (Hillside Peter Pan):
 Ideal). Two animals progeny of cow: 1, (Turner,
progeny (progeny of Springbank Josie), 2, Hume, (Humeshaugh
Helen); 3 and 5, Stansell; ;(Highland Lady and Barcheskie Juniper); 4, Ness, (Burnside Blossom.) \(\begin{aligned} & \text { Junior herd } \\ & 1, \text { Ness, }\end{aligned}\) (herd headed by Burnside Sir Andrew); 2 (Sir Hugh of Springbank); 4, Hume, (Humeshaugh (Sir Hugh of Springbank); \({ }^{\text {Prince }}\) Imperial); 5, Hume, (Hameshaugh
bank)
eriseys.-There were fewer herds competing for
Jersay prizes than in either of the other two breeds,
but this is not unusual. Of those that were out none were unusual in quality or general excellence, although Jersey type and sweetness were carried in a goodly
number of the entries. John A. Lee, Shelbyville Kentucky, judged.
Brampton Radiator won the aged bull class, as wel as senior and grand champion honors. He had few
points of superiority over Brampton Bright Noble, a
ull with a better rib and eye and perhaps breedier appearance. The latter bull was, however, very poorly
shown, and appeared to be very weak on top. Had he been as well handled as the winner he would have put
up a better appearance. Edgeley Bright Prince,
standing in third place was a cood bull but had not the points to win higher. The two-year-old bull class saw
some good ones out, led by Edgeley Bright Gem, a bull of good quality and better behind than Sunbeam's
Golden Boy, that captured second. Brampton Dote Only two were out as senior yearlings, both from disclosed the junior champion in Br. Secend Tarcow.
Edgeley Bright Chicf, a typey yourg bull, came in for
second, and Bramptin Douglas for third. Eleven second, and Brampten Douglas for third. Eleven
Senor bull calves made a yery fire class, and Brampten
Briogt \(~\) Bright Leader, an exeeptit nally sucet calf, looked well
on top. Edgeley Premier Prince filled scerrd F Iosition

Star, winner of the red ribbon, being a little straighter
at the tail head than his stable mate Brimpten Acter. at the tail head than his stable mate Bismpten Acter
Brampton Majestic and Buttercup's Netle cocupied
Five aged cows in milk provided a gocd class. Brampton Penithorpe's Patricia led with ease, being a and a splendid udder Brampton Serena, a leading prize winner at last year's National Dairy St:ow, Columbus, Ohio, was not in the best of trim, and stayed at second, but she always carries plenty of character
and milkiness. Br. B. P. Ina and Edgeley Fairy Lass followed for third and fourth, although here there was room for a difference of opinion. The three-year-old class in milk was led by Brampton Second Golden quality, showing that combination of beauty and usefulness which leads to perfection. She later secured senior and grand champion honors. Br. Black Beauty, standing second, was of a different type, larger, with
more substanice and a greater show of udder, but hardly the fine quality of the winner. She is, however, a morerugged matron and looks well in the ring. Edgeley
Molly Ann looked weil in third.
The aged dry class was well led.by Beauty Maid the veteran matron in the ring and at the pail. Never
has she looked better, and there never was a doubt as to her position because she carries a blend of type, quality and substance that requires no little beating.
Br . Dorothy Oxford Pearl and October Opal contended for second honors, both being of a different type from either Beauty Maid or Lilly May of Edgeley that stood fourth. Second position finally went to Br . Dorothy red among a worthy line-up of two-year-old heifers,
Br. Second Dorey, Edgeley Bright Pansy and Br. Oxford
Nursie followed. Brampton Sybil Gambere, a daughter of the \(\$ 65000\) bull, led a string of seven senior yearling heifers, owed by Bright Noble Gera and Br. Lady Voter They were worthy heifers in this class.
A splendid body and a fine show
zed Br . Rad body and a fine show of udder character ized Br. Raleigh Maid, the leader of 6 junior yearlings desirable conformation, but stood second with Edgeley rincess Mary third.
Champion female wase well contested, and the junior
She is a Golden Princess Gipsy.
Exhibitors.-B. H. Bull \& Son, Brampton, Ont. Papple Bros. \& Lang, Brantford, Ont. i H. Colton \&
Son, Malton, Ont.; J. Bagg \& Sons, Edgeley, Ont.; Amelius Jarvis, Toronto.
Awards.-Bull, 3 years and over (4): 1, Bull \& Son, on Brampton Radiator; 2,2, Papple Bros. \& Lang, on
Brampton Bright Noble. 3 , Bagg \& Sons, on Edgeley \({ }_{9499}\) Bright Prince; 4, Colton \& Son, on Brampton Bright 9499. Bull, 2 years (4): 1 and 2, Bagg \& Sons, on Edgeley Bright Gem and Sunbeam's Golden Boy; 3, Jarvis, on Brampton Bright Sultan; 4, Bull \& Son, on
Brampton Dote Heir. Bull, senior yearling (3):1 and 2, Bull \& Son, on Brampton Nelson and Brampton Bright 9449 . Bull, junior yearling (4): 1,3 and 4 ,
Bull \& Son, on Brampton Second Tarcow, Brampton Douglas and Brampton Sylvia's Lad; 2, Bagg \& Sons Douglas and Brampton Sylvia's Lad; 2 , Bagg \& Sons,
on Edgeley Bright Chief. Bull, senior calf (11): 1 and
3, Bull \& Son, 3, Bull \& Son, on Brampton's Bright Leader and Brampton A. Oxford Lad; 2 and 4, Bagg \& Sons, on Edgeley
Premier Prince and Beauty's Handsome Boy. Bull. junior calf (6): 1,2 and 3, Bull \& Son, on BrampMajestic 4 Papple Brampton Actor and Brampton Noble Fern. Aged cow in milk (5): 1,2 and 3 , Bull Serena and Brampton Penithorpe's Patricia, Brampton on Edgeley Fairy Lass; 5. Papple Bros. \& Lang, on
on
Pauline Golden Beauty. Cow, 3 years, in milk (6): Bull \& Son, on Brampton Second Golden Maid: 2 and 3, Bagg \& Sons, on Brampton Black Beauty and Edgeley Molly Ann; 4, Papple Bros. \& Lang, on Belmont Foxy
Girl. Cow, 3 years and over in Girl. Cow, 3 years and over in calf, not milking (6)?
1 and 2, Bull \& Son, on Beauty Maid and Brampton Đorothy Oxford Pearl: 3, Papple Bros Brampton Opal; 4 and 5 , Bagg \(\&\) Sons, on Lilly May of Edgeley and Brampton Bess Beven. Heifer, 2 years: 1, 2 and 4,
Bull \& Son, on Brampton Sultan's Interest 3rd Bramp ton Second Dorey and Brampton Oxford Nursie; 3 Bagg \& Sons, on Edgeley Bright Pansy. Heifer, senior yearling (7): 1 and 3, Bull \& Son, on Brampton Sybil
Gamboge and Brampton Lady Voter ; 2 and 4, Papple Gamboge and Brampton Lady Voter; 2 and 4, Papple
Bros. \& Lang, on Bright Noble Gera and Belmont's Noble Foxy. Heifer, junior yearling, (6): 1 and 4,
Bull \& Son, on Brampton Raleigh Maid and Brampton Miss Wolseley; 2, Papple Bros. \& Lang, on Buttercup Neble Spot; 3, Bagg \& Sons, on Edgeley Princess May
Heifer, senior calf: 1 and , 2, Bull \& Son, on Br. Bright Annette and Br. Cowslip's Marie; 3 , Bagg \& Sons, on
Edgeley Sweet Princess; 4, Papple Bros \& Edgeley Sweet Princess; 4, Papple Bros. \& Lang, on
Golden Beauty's Primrose. Heifer, junior calf: 1, 2 and 3, Bull \& Son, on Golden Princess Gipsy, Br.
Wonder Mary 2nd and Br. B. P. Silvery Moon; 4, Bagg Senior and grand champion male: Bull \& Son, on Senior and grand champion male: Bull \& Son, on
Brampton Radiator. Junior champion male: Bull \&
Son, on Brampton Second Tarcow. Senior and grand Bran, on Brampton Second Tarcow. Senior and grand
champion female: Bull \& Son, on Brampton Second
Golden Maid On Golden Princess (Gipsy, Girated herd: 1 and 4
Bull \& Son, (herds headed hy Br. Rarliator and Br

Rose and Erg sley Flossie); 3, Bull \& Son, (Br.Eleanor a) Son, (first herd headed by Brampton Second Tarcow); 2, Bagg \& Sons, (Edgeley Bright Chief); 3, Papple Bros. \& Lang. Best bull and 3 females, 2 years and over: 1, Bagg \& Sons; 2, Papple Bros.\& Lang. Best bull and 4 females, under 2 years: 1 , Papple Bros. \&
Lang; 2, Bagg \(\&\) Sons. Matthews cup for best bull lang; 2, Bagg \& Sons. Matthews cup for best bull Edward Hotel c Guernseys.- , best 4 females: Bull \&
erd, the Guernseys were of bepresented by only on fit than usual. Martindale Farm, St. Catharines, Ont exhibited several splendid individuals, the senior herd ire, Clover Boy of Pencoyd being particularly worthy
Brown Swiss.- The Brown Swiss breed of cattle is not well known in Ontario, but that is no gauge of
their value. They are a dual-purpose breed in that the cemales give a creditable flow of milk and at the same
fore time carry a fair amount of flesh. J. W. Laidlaw, of ,
as built up a very nice herd and his entries in th ifferent classes were favorably commented upon by vell-built bull, and several promising youngsters wer

\section*{Light Horses.}

The light-horse exhibit at the National dispelle the public as to the complete elimination the minds of or saddle horse by the automobile. The entries were not only above average but seldom has the quality of
the entire entry been of as high order. There was no the entire entry been of as high order. There was no
walk away with the honors in any class, as competition was extremely close and, in some instances, voung blood forced past show-ring warriors to yield up the honors.
The keen interest taken in the judging and the frequent The keen interest taken in the judging and the frequent
cheers from spectators as a favorite won a placing or displayed unusual action indicated that the horse still by Robt. Miller, Toronto. The awards were placed he ring-side spectators to as free a display of Hackney celebrities brought into the various classes. The con test started with an aged stallion's quartette. War-
wick Model, the strongest-built horse in the ring, and
showing particularly challenged by Terrington Cetewayo, a typey, clean-cut, trappy individual. After considerable deliberation the champion stallion. Mainspring, an eight-year-old the placed third. He is well moulded, but scarcely showed the training of the former two. Waverly King was the
only entry in the three-year-old class. He only entry in the three-year-old class. He won the this year would have given him a high place in strong competition. Two attractive colts constituted the two-year-old class. Waverly Merrylegs, the winner,
travelled nicely, but his body did not appeal like that travelled niccly, but his body did not appeal like that
of King Spartan, a shapely, well-proportioned chestnut.
The former , however The former, however, moved freely and easily and was The three-year-old fillies, while not making an out-
standing class, were a useful lot. Fashion Laddie's Model, with her neatly-turned body and graceful carriage, was placed first, with Silver Belle, a daughter
of Spartan, second. Nine yeld mares made a class long making the picking of the winner a difficult good lot Finally the honors fell on Daisy Thornton, a beautiful
chestnut Exhibitors.-McGregor's Horse Exchange, Toronto;
Jas. Tilt, Brampton;G.W. McLaughlin \& Son Oshawa; Crow \& Murray, Toronto; Graham Bros., Claremont:
Ios. Telfer, Milton West; I. W. Rush, Nanticoke: Jos. Telfer, Milton West; J. W Rush, Nanticoke;
Le Roy Goff, Glencoe; W. E. Jewell, Bowmanville T. T. Chester, Hespeler; R. C. Rogerson, Fergus; Awards.-Stallion, aged: 1, Crow \& Murray Warwick Model; 2, Gratham Bros., on Terringto McGregor, on Paramount. Stallion, 3 years: 1, Telfer on Waverly Merrylegs; 2, Tilt, on King Spartan. Stal Ion 1 year: 1 , Crow \& \& Murray, on Waverly. Star; 2 ,
Goff, on Lieutenant; 3 , Tilt, on Spartan Laddie. Filly years: 1, Chester, on Fashion Laddie's Model;
Bush, on Silver Belle; 3 , Rogerson, on Beauty Model Bush, on Silver Bidle; 3, Rogerson, on Beauty Model:
4, Jewell, on Lady Jewell. Filly, 2 years: 1, Castator n Spartan Queen; 2 and 4, Goff, on Dancing Girl, and
ady Aeroplane; 3, Jewell, on Terrington Madge illy, 1-year: 1, McLaughlin, on Terrington Madge Mavery Belle;
ioff, on Babe Model; 3, Jewell, on Terrington Belle Cowan, on Tissington Violet. Yeld mare: 1,2 and 4,
row \& Muray, on Daicy Thomton, Dunh Will Wild
Rose, and Maud Xischicf Telfer, on Dauline Brod





cellent advantage. He loses none of his attractive style and trappy action with the advance of years.
Although in his fourteenth year he appeared as active as a colt. In a class of ten he stood first and was also champion. Jim Todd, a smaller horse, was sandwiched
in between
Peter Wilton and Burt Axworthy, a horse of great scale. Peter Willie Bingen was the sensation of the three-year-old class. He is a proper, good colt with great freedom in action. Only three appeared in the yeld-mare class, but they were a quality trio, with pleasing lines and true, snappy action. Five good mares and foals were out. The contest for first plac Farm's Vera Peters. Both are worthy individuals The awards were placed by Dr. Routledge, Lambeth and Mr. McColl, Thamesvill
Exhibitors.-T. T. Hassard, Markham; L. Fried
New Dundee; J. J. Wolfe, Cooksville. Graham Bros, Claremont; Wm. Pears, West Toronto; E. A. Burns, Toronto; Crow \& Murray, Toronto; Paterson Bros.
Agincourt: M. Kreh, New Hambury: Cruickston Stock Farm, Galt; D. Douglas \& Sons, Mitchell; T. Cowan, Farm,
Oromo; I. A. Mabee, Alymer; ; J. Essery, Exeter; G. A.
Cameron, Alton: S. Plewes, Coboconk: P Cowan Cameron, Alton; S. Plewes, Coboconk; P. Cowan,
Bowmanville; H. J. French, Toronto; C. J. Shore, Bowmanville; H. J. French, Torontre
Glanworth; H. W. Russell, Wingham. Glanworth; H. W. Russell, Wingham.
Awards.-Stallion (trotter): 1, Hassard, on Pete
Wilton; 2 , Cruickston Stock Farm, on Jim Todd 3, Crow \& Murray, on Burt Axworthy. Stallion (pacer) Stallion, 3 years: 1, Cowan, on Billie Bingen; 2, Essery years: 1, Cameron, on Spier Peter; 2 Plewes, on Peter Rhythmic. Stallion, 1-year: 1, Cruickston Stock Farm, Vernon Castle. Yeld mare: 1, French, on Ideal Princess , Mabee, on Axie; 3, Shore, on Kentucky Belle. Filly 2. Plewes, on Dawn Fast. Filly, 2 years: 1, Cruickston Princess Axworthy and Betty Axworthy Frilly 1, 2 , on


Shropshire Ram
Champion at Toronto, 1919. Owned and exlibited by
Larkin Farms, Queenston, Ont
Russell, on Lady McMartin. Foal: 1 and 2, Cruickston Wilton. Champion mare: Pears, on Susan Hall.
Roadster. Roadster.-The Roadster classes were well filled with horses in show form. Eight competitors entered
the contest in the three-year-old class. Ida, exhibited tioned, flashy individual, and was declared to be the best Roadster mare any age in the ring. Cowan also
had an attractive brood mare and foal. The keen competition in all classes held the attention of a large Mr. McColl, of Thamesville, were the judges. Orono; W. J. Cryderman, Thamesville: Cruickaten, Stock Farm, Galt; W. Johnston; J. W. Bush, Nanticoke;
J. Brown \& Sons, Galt; Wm. R. Wheeler, Milton West: D. Brown \& Sons, Galt; Wm. R. Wheeler, Milton West;
D. Douglas \& Sons, Mitchell; Le Roy Goff, (;lencoe: Paterson Bros., Agincourt; L. Fried, New Dundee; Thos. MeMichael \& Son, Seaforth; Bater Bros. Oak-
ville; J. Telfer, Milton West; S. Creighton, Sararboro Jet. © J. Shore, Glanworth; J. W. Cunnell, Torbonto; Cheyne, Milton.
Awards. Filly or gelding, 3 years: 1 , Cowan, on
Ida; 2, Wheeler, on Lambert Todd. 3 Chaww Topsy Filly or gelding, 2 years: 1 , Cruickston, S. . F.,
on Helen Battle; 2, Paterson Bros., on Orley Axworthy; 3, Douglas, on Maplehurst Rocket. Filly or gelding,
1, year: 1, McMichael. on Black Bird; 2, Fried, on
spit Fire: 3, Shore on Wason Rer




Awards.- Filly or gelding, 3 years: 1, Hall, on Pat;
, Smith, on Gay Boy. Filly or gelding, 2 years: Smith, on Gay Boy. Filly or gelding, 2 years: 1 , Carter, on Madge; 2, Bater Bros., on Grasshopper; 3 , Carter, on Jim. Filly or gelding, 1 year: 1 . Wiggles-
worth, on Gladys H.; 2, Creighton, on Lady Axworthy: 3, Shore, on Kate. Brood mare: 1, Wigglesworth, on

\section*{Swine}

With 451 entries, the swine exhibit at the Canadian high numbers. It was rather singula new records for that the representation this year in all divisions came from practically the same herds that made up the 1918
exhibit. Yorkshires and Bershires exhibit. Yorkshires and Berkshires as usual brought Jerseys followed close and filled the classes much better-1 than this breed was able to do a very few years ago Yorkshires.-Exhibitors. - J. K. Featherston, Streetsville; Jno. Duck, Port Credit; J. Lerch, Preston;
R. Harrison, Brampton: and J. E. Brethour \&, Nephews Burford. Judge, Wm. Jones, Mt. Elgin. Awards.- Boar, 2 years: 1 Brethour; 2 and 4, Duck; 3, Featherston. Boar, over 18 months: 1 , Duck; 2 and
4, Featherston; 3, Brethour. Boar, over 12 months. 4, Featherston; 3, Brethour. Boar, over 12 months:
1, Duck; 2, Featherston; 3, Brethour; 4, Harrison. Boar, over 6 months: 1, Duck; 2 and 3, Brethrour; 4 ,
Featherston Featherston. Boar, under 6 months: 1 and 4, Brethour;
2, Duck; 3, Featherston. Champion boar: Brethour, 2, Duck; 3, Featherston. Champion boar: Brethour,
on aged boar. Sow, 2 years: 1 and 4, Brethour; 2 , on aged boar. Sow, 2 years: 1 and 4, Brethour; 2,
Duck; 3, Featherston. Sow, over 18 months: 1 Brethour 2 and 3 Buck; 4, Featherston. Sow, over 12 months:
1 and 3 , Brethour; 2, Duck; 4, Harrison. Sow, over 6 1 and 3, Brethour; 2, Duck; 4, Harrison. Sow, over 6
months: 1,3 and 4, Brethour; 2, Duck. Sow, under 6 months: 1,3 and 4 , Brethour; 2 , Duck. Sow, under 6
months: 1 and 2, Brethour; 3, Duck; 4, Lerch. Champion sow: Brethour, on 18 months sow. Boar and two pion sow: Brethour, on 1 , Brethour; 2 and 4 , Duck. Four pigs,
sows: 1 and 3 , Four
get of one sire: 1 , Brethour; 2 , Lerch; 3, Duck; 4 , Feather-

Berkshires.-The exhibitors were G I Smith Meadowville; S. Dolson, Norval; A. Trcmson, Strat
ford; P. W. Boynton, Dollar, and W. W. Brownridge Georgetown. Judge, P. J. McEwen, Wycming. Awards.- Boar, 2 years and over: 1, Brownridge; 2 , 4, Thomson. Boar, 12 months: 1 and 4, Brownridge
2, Thomon; 3, Dolson. Boar, over 6 mentrs: 1 and 4 , 2, Thomson; 3, Dolson. Boar, over 6 montrs: 1 and 4,
Brownridge ; 2 and 3, Thomson. Boar, under 6 months: 1, 2, 3 and 4, Brownridge. Champion: Brownidge, on
aged boar. Sow, 2 years: 1 and 3, Brownridge; 2 and
4, Themson. Sow, 18 months: 1 and 3, Brownridge; 4, Themson. Sow, 18 months: 1 , and 3, Brownridge;
2 and 4 , Thomson. Sow, over 12 months: 1 and 4 , 2 and 4, Thomson. Sow, over 12 months: 1 and 4 ,
Themson; 2 and 3 , Brownridge. Sow, over 6 months:
1, Thomson; 2, 3 and 4, Brownridge. Sbw, under 6 months: 1, 2, 3 and 4, Thomson. Champion sow:
Brownidge, on 18 months sow. Boar and two sows: 1 and 3, Brownridge; 2 and 4, Thomson. Four pigs,
get of ore sire: 1 and 3, Rrownridge; 2 and 4, Themson,
Tamworths.-Exhibitors.-D. Douglas \& Son,
Mitchell; S. Dolson \& Son, Norval, and C. B. Boynton, Mitchell; S. Dolson \& Son, Norval, and C. B. Boynton,
Dollar. Judge, J. C. Nichol, Glanworth. Awards.-Boar, 2 years: 1, Douglas. Boar, over
1 year. 1 and 2, Douglas. Boar, over 6 months 1,3
4 , Douglas: 2, Dolson. Boar, under 6 months: 1,2 4, Douglas; 2 , Dolson. Boar, under 6 months: 1,2
and 4, Douglas. Champion boar: Douglas, on 6 months'
boar. Sow, 2 years: 1,2 and 3 , Douglas; 4 , Dolson. Sow, over 18 months: 1, Boynton; 2,3 and 4 , Douglas.
Sow, over 12 months: \(1,2,3\) and 4, Douglas. Sow, Sow, over 12 months: \(1,2,3\) and 4, Douglas. Sow,
over 6 months: 1,2 and 3 , Dolson; ; 4, Douglas. Champion sow: Boynton, on 18 months' sow. Boar and
two sows: \(1,2,3\) and 4 , Douglas. Four pigs, get of one sire: 1 , Dolson; 2 and 3, Douglas; 4, Boynten.
Chester Whites.-Exhibitors.-W. Roberts \& Son, Peterboro; J. G. Annessex, Tilbury; G. G. Gourtd, Essex, Awards--Boar, 2 years: 1 and 2, Annesser; 3 and 4,
Roberts. Roberts. Boar, over 1 year: 1 , Gould; 2 and 3, Roberts;
4 , Wright.
Boar, over
6 months. 1 and 2 Roberts 3 , Wright. Boar, under 6 months: 1 and 2, Roberts 3 , 3 ,
Gould; ; 4, Wright. Champion boar. Anrescer , on aged boar. Sow, over 2 years: 1 and 2, Annesser: 3, Roberts. Sow, over 1 year: 1, Annesser: 2 2, Wright: 3 and 4, Roberts. Sow, over 6 months: 1 and \({ }^{\circ} 2\), Anresser; 3 ,
Wright; 4 , Roberts. Sow, under 6 months: 1 and 2 ,
Wright on sow over 1 year Roberts. Champion sow: Annesser, 2, Roberts; 1 year. Boar and two sows: 1, Annesser;
, Wright. Four pigs, get of one sire: 1 and 3, Wright; 2, Roberts; 4, Gould, get one sire.
Duroc Jerseys.- Exhibitors.- C. Stobbs, Leamingn; C. Mallott, Wheatley; Ed. McPharlin \& Son, Essex; Calvin Brees, Essex; R. A. Smith, Leamington;
Thos. Dunn, South Woodslee; Gus Byrne, South Woodslee. Judge, H. A. Dolson, Georgetown.
Awards.-Boars, 2 vears: 1 and 3 , Mc Pharlin; 2 , Mallote; 4, Stobbs. 2 yoars: 1 and 3, McPharlin; 2 , 2 and 4, Mallott ; 3, Mc Pharlin. Boar, under 6 , months:
 Mallott; 3 and 4 , McPharlin. Sow, Sower 1 year: 1 , Stobs; 2 , McPharlin; 3 and 4, Mallott. Sow, over 6
months, 1 , Robinson; 2 and 4 , Mallott; 3 , Byrne. Sow,
under 6 monthe.
\(\qquad\) Standardbreds. - It is doubtiful if better classes of

Toronto, Montreal, Buffalo, and Other Leading Markets
Week Ending August 28.
Receipts and Market Tops.


\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{6}{|c|}{Receiots CATTLE} \\
\hline Week & San & Week & Week & & \\
\hline Ending & Week & Ending & Ending & Week & Ending \\
\hline  &  & Aug. 21 & Aug. 28 & \$1918 & Aug. 21 \\
\hline , & 1,682 & 1,718. & \({ }_{13.75}\) & & \({ }_{13}{ }^{\text {a }} 75\) \\
\hline 1,863. & 1,445 & 1,898. & 13.75 & 13.00. & 13.75 \\
\hline 10,563 & 7,993 & 8,930. & 13. & 15.00 & 00 \\
\hline & & & 11.75 & & \\
\hline 1,544 & 1,494 & 1,445. & 11. & 14. & 11.50 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{4}{*}{Week Ending
Aug. 28 Aug. 28} & \multicolumn{2}{|l|}{Receipts} & \multicolumn{3}{|l|}{Top Price Good Calves} \\
\hline & Same & Week & Week & Same & Week \\
\hline & ek & Ending & Ending & Week & \\
\hline & 740 & 1,454 & \({ }_{822} 00\) & \$17.50 & \({ }_{\text {¢2 }}\) \\
\hline 888. & 907. & . 808 & 16.00 & 15.00 & 16.00 \\
\hline 546. & 474 & 1,123. & 16.00 & 15.00 & 16.00 \\
\hline 599 & 339 & 1.878. & 13.00
10.25 & 12.00
9.50 & 14.00
11.25 \\
\hline 169 & 107. & 328 & 10.00 & 9.00 & 0.0 \\
\hline
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Toronto (U.S.S. Y.)
Montreal (Pt. St. Charles)
Montreal (East End).
Cinnipeg.
Calgary
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Week} & \multicolumn{5}{|c|}{HOGS} \\
\hline & Receipts & & \multicolumn{3}{|c|}{Top Price Selects} \\
\hline & Same & Week & Week & Same & Week \\
\hline Ending & Week & Ending & Ending & Week & Ending \\
\hline Aug. 28 & 1918 & Aug. 21 & Aug. 28 & 1918 & Aug. 21 \\
\hline 6,082 & 5,106 & 6,623. & \$21.75. & \$19.75 & \$23.75 \\
\hline 1,147 & 2,090 & 1,471 & 21.75 & 20.00 & 22.75 \\
\hline 1,162 & 904 & 1,503 & 21.75 & 20.00 & 22.75 \\
\hline 1,106 & 3,733 & 3,033 & 20.00 & 19.00 & 22.00 \\
\hline & 1,302 & 485 & 19.75 & 18.75 & 22.50 \\
\hline 285 & 457. & 233 & 19.25 & 18.25 & 21.00 \\
\hline
\end{tabular}



ped to country points for breeding.

A Goal.
I shall \(\sin\)
In every bing of my exultation
Of the dewy new creation
Oh, my song
Is of sunsets of purple and gold,
Tis of twilight that lingers long,
Of the witching light that the old
Moon sheds through night's wild
Oh, my love
Is of
And the thrushes sing and the stray,
Is calling a woodland to pray;
Is calling the wren and the dove.
Oh, I se

The Banner Exhibition.
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) Betty J

is an air of gladness everywhere, from the
of them manned by Aviator above one
Naturally one of the most interesting
voted to German trophies-and trophief
haughty ornaments taken frcm the front
German helmets to a great armore
biplane whose
with metal sheeting; all displayed benereat
a flutter of German flags and pennons,
are guns, mortars and anti-aircraft guns
must have strange sensations upon
realizing where they have landed after
all their ventures.
ever one so strange-is made from the
metal of French and Belgian church
bells.
found in the headquarters of Prince is
Frederick at Lille, and, in a glass case
cap of possum fur, red topped, and
adorned by a brush of white ospreys,
which belonged to the Kaiser's youngest
\(\qquad\)
\(\qquad\)
men. Lt.-Col. Bishop, the greatest British
ace, is, by the way, in charge of the aerial
department of


The Prince of Wales Opening the Canadian Nation Exhibition
\(\qquad\)
\(\qquad\)
Among the Books.
"The Mason Bees.
\(\qquad\)

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\(\square\)


\section*{Buy Your Furs BY MAIL}


Big Fashion Book of Authentic Styles Fresh from the Most Famous Designers, Sent to you Free.
Its pages are crowded with items -

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in the tremendous money-saving opportunities for which this hanse is fantee of
Anyone in the Dominion Can Buy Sellers-Gough Furs
 money at every step. Consid
help and the scarcity of high g
are nothing short of amazing.
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any article that is not
any article that is not
completely
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September 4, 1919
we beginning to prize. He was a really fellows so little that few of them knew it. He had no a mbition, no desire for rame, showed a strange aversion for meddling with other people's affairs
dodged honors as though they were brickbats, and died poor, aged, but happy. All this, when set down, bears such a reposterous resemblance to a successful
life that it is unfair to those who have tried genuinely to do well. Still there is no need for us to follow his example,

\section*{Hope's Quiet Hour.}

A High Ambition
seek not mine own will, but the will
of Father which hath sent me.
Follow! so follow on, Christians, every one, Follow! so forlow on, Christians, every one,
Holl the hope of your patience fast
Till the Day-star arise, and your happy See the King in beauty at last,
And the Love, Work and Praise of your pilgrimage days
At the feet of your Lord are cast. gone:
Till the long, hard quest has its end in And the Vision of Christ is won.
ment of Eternity. Are we letting the precious opportunity sip through our
fingers? If it is true that "to-morrow
never comes," it is no less certain that never comes," it is no less certain that
yesterday never returns. What is our ambition? What is the purpose of our fire, the goal we are aiming at?
When a man begins his financial career by persistent endeavor up the ladder of riches until he can leave millions to his heirs; is that a proof that he has made a
brilliant success of this opportunity life, which is given to each of us? The
millions must be dropped on this side of millions must be dropped on this side o the gate. -It is God, not man, who shal
determine how much the man is "worth." determine how much the man is worth.
This is the birthday of a gentle, help
ful woman, who is always ready to do ful woman, who is always ready to do
kindness to a neighbor. This mornin kindness to a neighbor. This morning
she found outside her door a little birth she found outside her door a little birt
day gift, and a card inscribed wit
Lowell's lines, which fit her Lowell's lines, which fit her splendidly:
\[
\begin{aligned}
& \text { "Blessing she is, God made her so; } \\
& \text { And deeds of weekly holiness }
\end{aligned}
\] Fall from her noiseless as the snow Nor hath she ever chanced to know
That aught were easier than to bless. What are we living for? Is the purpose of our life one worth paying out th make up our accounts, at the end of this section of life, shall we find ourselves with us any riches of holiness, courage patience, love that will have value in the Our Leader's ambition was a high on and His purpose was unchanging. His
one desire was to do the Will of the


The Grand Stand, Canadian National Exhibition. ays fly; and soon this chapter of our life cup of agony might pass, it was only will be closed. What then? Yesterday the Father willed it so. His, one great he Beyond. She is walking with unooking with steadfast eyes at the gate which will probably open before long to dmit her into the unknown land beyond
leath. I had just left her when another woman, in a bed close beside my brave
riend, slipped quietly and painlessly prayer, "Thy Will be done!", must be our prayer too, if we are to make our lives
worth while Even when our Lord was a child o weive He was astonished to find that
His mother did not know that He "must" be about His Father's business. He too it for granted that she would naturall
look for Him in the Father's house. Tha compelling "must" puts us to shame - must be about our own business or pleasure; and only when all our ow
affairs are settled to our satisfaction ca H:e thread of Time into the lasting gar- we spare time for our Father's busines.


The Manufacturers' Building, Canadian National Exhibition


Made to meet a growing demand for finer underin finish - the ultimate in women's underwear.

The easy, e-astic comfort of these garments is due to special knitting on Spring Needle Machines. So also is their greater strength and long life.
Many seasonable fabrics. Many styles and all sizes in Men's, Women's and Children's garments.

\section*{Yatson's -2 UNDERWEAR} MANUFACTURING CO.,Limited


ONTARIO LADIES' COLLEGE



Yesterday a S. S. teacher said to me:
"So many of my boys, who have been at
the front, never attend church now."
Of course, that is only the outward
sign-one of the outward signs of a
sign-one of the outward signs- of a
man's purpose in life. It is possible that
. he may be more sincere in his desire to
serve God (even though his disappointed friends know that they will not find him in the Father's house) "than he was in
his careless boyhood. "I know they are his careless boyhood, "I know they are
groping after God," said that teacher
of her when they gave her pleasure by coming to church,-perhaps, then, they were not even groping after God, but just trying
to please their S. S. teacher. It may be that they are really nearer the light now, by thinking they have faith when they R This morning I read in the paper an
aviator's description of the view from above. He said that cities looked rather
like collections of houses build with a child's blocks. Man's great works and
achievements seem like children's toys when the beholder is at a great height.
So it was with St. Paul. His ambition to win a great name, with his mental gifts with as little regret as a young man feels for the tin sword and toy drum which
used to please him. He no longer gloried used to please him. He no longer gloried
in earthly wisdom and power, but gloried
only in the Lord He fow poor weapons, all enticing words of man
wisdom, and fixed his heart on Christ crucified; though such an ambition was,
in the opinion of the Jews, a stumbling in the opinion of the Jews, a stumbling-
block in the path of progress and, in the
eyes of the Greeks, Then there was another young man, full of the splendid vigor which resulted
from a life in the open air and simple food. John the Bapetist lived on the
heights; therefore, he cared nothing for the offered suggestion that he should proclaim himself the Messiah. His pur-
pose was not to win earthly fame, but to proclaim faithfully the message, of God.
He did not wish to win a great name for He did not wish to win a great name for
himself, but said he was only a "voice"
telling man what and be. He saw that the fickle multitude would soon turn their backs on him and
seek after some new sensation; but that an instant. "I must decrease," peace for said
but not sadly; for the ambition whid out not sadly; for the ambition which
swayed him was not his own glory but the glory of his great Kinsman. "He must flood his own future with light. Herod might try to hold him a prisoner in a
dungeon, but his spirit was free to climb a greater King. Herod might send of is messengers only opened a new docr and neither was to do the Will of God Aboutd a year ago I heard a missionary describe the difficulties of a young native
of India, who had been a Mahommedan
but had found Christ. To come out but had found Christ. To come out
boldly as a Christian meant the sacrifice
of all earthly things give up father, mother, wife, children
social position and property social position and property. After long,
perplexity he decided on the side of
Christ The himself had scen a letter from that he
of this young man father and declaring: "IIf yoursing him terribly
I will go to hell ", Some time afterwards the missionary
asked the young soldier of (Chiter he regretted his decision. The answer
came unhesitatingly: "No, my only sur-
\(\qquad\)
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\section*{Don't waste this great orportunity of The Roumanian Cabinet has refused
ife in seff-secking! If yot the decision of the Peace Con-} ertainly come a time when you will and Temesva between Roumania and
hitterly regret vour chaice Jufas chose

Septemb

Mrs. Alfred Wataions watc made to from England for Caforea, her departure Institur work in establishing Women's The former Kaiser has bought a country
house in Holland. One hundred and eighty soldier up on various been in Toronto brushing before taking the
Faculty of Education Faculty of Education and Normal School
courses this fall. Andrew Carnegie died worth \(\$ 50,000\),
000 , one-tenth of what accrued through his business ventures

The St. Thomas, (Ont.) Horticultural Society captured both prizes on its
entries at the American Gladiolus As \({ }_{*}{ }_{*}\) Detroit.
The charms of music were used this Bands paraded Kansas to enlist harves. and Thousands of hands were needed, and New York and Pennsylvania sent

The calculations of the Prince of Monaco, an authority on oceanography,
have been confirmed by the Director Azores Meteorological Service of the mines, broken from their moorings have spread to north, south and sounthwest of
the Azores and are floating towards the

Current Events

Premier Heast shis thition referendum for Ontario will be taken at -
The U. F. O. has nominated as candi Hates in the coming elections: A burn for South Wellington; and Samuel

The first day of the Exhibition at Toronto broke all previous records of and a quarter millions, a mark which, Prince of Wales upon certain occasions,

The British Government is offering
\(83,200,000\) in prizes for mpetition in flying machines salety

All over Great Britain strect markets
are being openel to fight profiteers and
are selling at nearly fit han the shops.

The fugo-Shav delegation at Paris

\section*{Note 1 .
now what}
now what
The othe
for once I'm
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sweet little
sweet little
E. Campbell
and I were
and I were
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Note 2.
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wonderful play
nd beautiful
magination

The Ingle Nook
Rules for correspondence in this and other
Departments; (1) Kindly write on one side of
paper only. (2) Always send name and address
with communications. If pen name is also given enclosing a letter to be forwarded to anyone, place
it in a stamped envelope ready to be sent on.
(4) Allow one month in this Department for
answers to questions to appear.]

D you ever, at the end of a day interesting things that happened in it, not important or outstanding things, perpened and the thoughts they gave rise to? And don't you think, if we did this more
often, we would come to the conclusion we don't live in quite such a Dumdrudge as we imagine? in a note-book a few words to indicate just such little incidents, and so to-day one day's jottings. \({ }_{*} \quad *\)
\(\qquad\) The other day a friend and \(I\),-yes for once I'm going to tell you her name, sweet little poems-it was Miss Amy and I were going along the streets on which is the Patricia theatre, when she "There was a tiny little kitten lying morning. It looked like a little grey muff.-There it is yet."
There it was, sure enough, lying in the hot sun, a wee little scrap of fur that
looked up pitifully and blinked at us as Two men were carpentering something of them came over. I'll take it home and put some sure "I think ead water in them." to ask what was wrong. ing much what we could do, for when one lives in a boarding-house one simply
can't carry home starving kittens, "Why, yes," he said, "of course it's
starving. I'll take it to the Chinese restaurant and get it some milk and Meanwhile the kitten, without a move other as though wondering what all the One kitten, at least, had fallen into good hands. The young man picked it
up and went off with it, stroking its back, see "loss of dignity" in the unusual sight of a well-dressed, well set-up young
man carrying a wee rag-tag of a kitten with sore eyes down the crowded main As we went on we remarked on the sider the suffering of take time to conand the dapper young man who had consciously, such a kind little act.-But isn't it?
\(\qquad\)
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The Legacy of War
Canada's Dead and Missing
Canada's Wounded - -
- \(\quad 63,038\)

Canada's National Debt ~ \(\quad\) ~ \(\$ \mathbf{1 , 6 7 0}, 263,691\)
Soldiers' Annual Pensions
\(\$ 35,000,000\)
HE WORLD is staggering with debt. Some of the leading countries are verging on bankruptcy.
Five years aco Canada had never dreamed of the financial burden she carries to-day.

Canada entered the Great War with a National Debt of \(\$ 337,000,000\), or \(\$ 42\) per head of population. Canada emerges with a National Debt to date of \(\$ 1,670,263,691\), which is expected to approximate \(\$ 2,000,000,-\) 000 by the end of the fiscal year-or about \(\$ 250\) for every man, woman and child in the country. Interest charges alone will eat up nearly onehalf our present national revenue, and soldiers' pensions will have to be provided as well.

Can Ontario Afford to Spend \(\$ 36,000,000\) a Year on Booze?
DREVIOUS to the Ontario Temperance Act the drink bill of the Province approximated \(\$ 36,000,000\) per year, an amount about equal to Ontario's share of the Annual interest on our National Debt. In the face of our financial responsibilities alone, is this the time to repeal the Ontario Temperance Act or relax a single one of its restrictions upon waste of money and man power? To every question on the Referendum Ballot vote-
"No!"-Four Times-"No!"
No Repeal-No Government beer shops-No intoxicating beer in Standard Hotel bars-No Covernment beer and whiskey shops. Be sure you are on th
four times- \(X-X-X-X\)-in the column headed No.

Ontario Referendum Committee
JOHN MACDONALD.
D. A. DUNLAP:

ANDREWS. GRANT.
Vice-Chairman and Secretary.
(1001 Excelsior Life Bldg.)

In sealed airtight packages.

\section*{MC Cormick's Jersey Cream Sodas}

Sold fresh everywhere
Factory at LONDON, Canada Branches at
Montreal, Ottawa, Hamilton, Kingsten, Wimipeg, Calgary, Port Arthur, \(\mathrm{St}_{\mathrm{t}}\) John, N.B.


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\section*{Through buying tires for cash and in enormous} ntities, we are able to sell them at cut rates. We
do not rely on the profits made our business depends on selling many tires for ittle money.
Further we ask you to send no money, just mail
your order, we ship the all express charges tires on approval, C.O.D., ail express charges paid to any address in
Ontario, Quebec or the Maritime Provinces if after you have thoroughly examined the tires you are not satisfied, you are at perfect \({ }_{t}\) Therty to return them at our expense.
What could be fairer-what offer more straight forward and above board?


All Oth Sizes at Cut Ratos-You
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Security Tire Sales Co.
5161/2 Yonge St. TORONTO

BRANTFORD CORDAGE CO. LIMITED BRANTFORD, ONT.

0 URS is an independent all-Cantely no connection whatever with Our twines are the highest quality, try them ard be convinced. Wo submit them to a special

\section*{BRANTFORD BINDER TWINE}

The artist becomes entranced with the idea. He will paint the Holy Mother in
the midst of the blooming roses, with the kneeling Brother in adoration before her, -and he will paint it on the spot, in the very garden behind the grim old walls of
the monastery. The trouble is to find a the monastery. The trouble is to find a model worthy to serve as the Mother of
Our Lord. For once the wild, wifful Joline is gently repulsed. In vain does she drape herself to take the part. To her grief and fury she will not do. The another, and the second is so approved by the artist that he engaged her, where upon Joline fliés upon her like an enraged
cat and scratches her. The next moment so sweet is she in her repentance and soriow for her naughtiness, that she dawns upon the artist as the very model for his great picture. © She goes with
him to the monastery, to which she him to the monastery, to which she
finally gains access by dressing as a boy, donning her long robes and posing for the picture while the monks are in the chapel with their devotions. One day the
Brother sees her there, with her resting on a branch of the rosebush. He thinks he las seen the vision and and his model make Meanwhile the artist next day, strangely the branch on which Joline's hand had rested bursts into bloom. The miracle has happened and the monks rejoice, opening the gardens for both men and women so that all may
come and worship there. In the meancome and worship there. In the mean-
time Joline's conscience she finally goes into the chapel and confesses to the venerable old Prior there. .He tells her not to trouble because "through the eyes of every woman
the eyes of the Holy Mother, at some the eyes of. "the Holy Mother, at some
time, look." The Brother, he thinks, 50 really beheld the ve monent, and Holy Mother. . This idea so takes hold of Joline that she becomes completely changed, - the evil drops away, the good shines forth. She becomes a
Red Cross nurse. Meanwhile the artist, in his studio, with the picture of Joline bush, which he will not sell the roseout that he loves Joline. But the call to the War comes to him when the American troops march through Paris.
He enlists, and, of course, the story ends appropsts, and, of course, the story ends
appriately when, wounded, he is reunited with Joline in the hospital the nurses who go to and fro through the halls of pain.
picture, and I hope some day beautiful have a chance to see it. You will under stand then', better than through my mer telling, its lesson: That there is a gleam
of divinity in every human is its practical lesson: Take it for granted that one is good and that one will be
better than before. Peried soment, if you see it, I shall have spoiled somewhat, for you, the ex'pectancy
of the story, but I I have told this little of
it for those who cinal

\section*{Worth Thinking Over}
ablet of your heart this upon the 'Up' and have it lead you, you will ' If we are ever fain. decent human civilizatio develop a Canada we shall have to hold some one of taking all we case commercial fellow citicens."'-A. Stevenson, London,

\author{
About a Kitchen Floor
}
heear Sir.--Your advice last winter trees from the axes of the Bell Telephone
line mem and to apply again for help in a minor problem. It was laid fifteen vears in our kitchen. treated in the first place by a coat of hot
til This must have been we have ever since been a mistake, as room is used by a large family every day means that, the floor we must be dusted it
mo cleaned every day. A few weeks ago it
was well scrubbed was well scrubbed and lye was used to
ake off previous finishes and dirt. Then alat.par was used, and now dirt. Then
lean carefully it has turned tray and we
water with a liitle coal oil or milk, and we also use liquid veneer. Always and no matter, the result is disy well, buit unsightly. Can you help us? Thanking you for the help you will try to give.

> ou will try to give. Frontenac Co., Ont
\[
\begin{aligned}
& \text { Frontenac Co., Ont. M. Strouve, } \\
& \text { A hardwood floor is the best kind then }
\end{aligned}
\]
is, yet in a farm kitchen best kind the found, it presents some difficulties. In living-room, where there is comparative can be given, the most and more can has been found to ast attractive finis stain and then waxing; and for washing is not recommended, the a cleanser and re-waxing being found to bo the proper treatment. But the farm wax is too slippery for prosition. The easily; in short, it will not do marks too perhaps, where the family is linexcep two or three extra careful souls, Ihave just telephoned a dealer in floor finishes about your difficulty, and he-says fint apply two floor very thoroughly, then varnish, which can be clean of good floor very nicely, with a mild soap and warm (not hot) water. Whenever sof used for cleaning a floor, the wood should be very well rinsed with several waters, kill anyally rinsed with vinegar water to Scientific American gives the lye. method for cleaning a floo following "Take sbme clean, sifted white sand and scatter it on the floor. Dissolve 1 lb . of American potash, or pearlash in 1 pint of water, and sprinkle the sland with the solution. Have a pail of very hot water hard brush, and use good hard wan Change the water frequently. This will whiten the boards and take out stains." It might be wise for you to try this treatnent betore putting on the floor varnish. If you like the floor light apply the varnish over the dry, white floor. If you like it
dark first apply a stain, then, when thoroughly dry, put on the varnish. Keep a few heavy hooked or brillad mats to save the floor where there is most I trust this will solve your problem. An article on floors, by the way, will pear in an early issue of this paper

\section*{Dyeing Query}

For M. P., Grey Co., Ont.: have been good. Would advise re-dyeing it. Get a reliable brand dye recomclosely for silk and follow directions losely. Some dyes require salt, others

\section*{Peaches and Plums.}
Peach Butter.-Four quarts pared and sliced peaches, 1 quart sliced apples, \(1 / 2\) cup vinegar, \(1 / 2\) cup water, 3 lbs, brown
sugar, spice bag (if liked). Place all in sugar, spice bag (if liked). Place all wll with a potato masher and cook slowly and thick. Put in sterilized tumblers paraffine. Put when cool, with melted paper. Tut on lids or tie down wide kettle to prevent scorching. To Can Peaches.-One quart peaches, 1 cup sugar, 2 cups water: Make a syrup,
of the water and sugar, boiling hard for 5 minutes. Set back on the stove, let to a boil arme (which have been cut in half and pared) to fill a jar. When tender take the fruit out and place in the jar, then fill with he boiling syrup, being careful to tilt cracking. Run pour it in to prevent jar with a sterilized silver knife to break any bubbles, and seal at once Of course, the jars must be sterilized before putting Spiced Peach Pickle.-One peck freestone peaches, 7 lbs . sugar, \(11 / 4\) gallon good cider vinegar, cloves, allspice, and and let lie in hot soda water until the fur can be rubbed off with a coarse cloth. hard boil then sugar and spice come to a ime, and let simmer peaches a few at a e run through. Put in sterilized sars and e peaches. Sweet Pickled Peaches.-Four quarts peaches, 2 lbs. sugar, 1 stick cinnamon, a peaches, 2 lbs . sugar, 1 stick cinnamon, a
few cloves, 3 cups vinegar. Cook sugar


\section*{Put something by for a sunny day!}

WHEN the horizon brightens with an opportunity that may lead to your success and prosperity, do not let it find you unready to take it on.

Through lack of capital, many men have been forced to see their opportunities passin many cases all that was required was a very small sum to invest.

A few dollars saved each week or month, deposited to your credit in a savings account at The Bank of Toronto, with the interest it earns, will soon accumulate to a substantial

THOMAS F. HOW your venture. ready when the call comes for

\section*{General Manager \\ Your sooings account is inoited. \\ \% \\ THEBANKOFTORONTO}

\begin{abstract}
tied in a cheesecloth. Peel the peaches and cook gently in the syrup:until peacher
Lift into steriized dow into steriized jars, boil the syrup
down a little, pour to foll
ars, and Pettlem Jelly.-Put the washed fruit in a kettle with water to cover, heat slowly wooden spoon. Drain through a with a bage until theon. pulp is dry. Allow a jelly of sugar to each pint of fuice. Boil the wice 20 minutes prom the time it starts to boil, skimming often. Add the suguar
which has bein the which has been heated in the oven, stir then turn ing again to the booiling point, When urn into sterilized and stiffly-glasses cover with melted paraffine, seal closely, and put in meted ry cupboard.
\end{abstract}

\section*{Markets \\ continued toe paso}

\section*{Toronto Produce} Steceipts of live stock at the Union
 cattle, 686 calves, 2,479 hogs, 2,855 sheep
and lambs she and ambs. Slow market. Ceneral qual.
 Cows and bulls 25 cents lower: one load.
 \$15; bulk at \(\$ 14.50\). Hogs, 820.75 , fed and watered; buyers quote 50 cents 1 ower
for balance of week for balance of week

\section*{Farm Produce.}

Trade in butter was firm at unchanged qoutations; choice creamery fresh-made pound squares selling at 54 c . to 56 c ., and state that they paid 39 c . per lb. Dealers dairy at country points.
Eggs were also a firm trade at price
steady with the selling at 54 c . to 55 c ., and selects cartons at 58 c . to 59 c . per doz. trade at 28 c. to \(28{ }^{1}\) de as being a steady Poultry.-The market was active at
lower price levels Spring chiclens were in good condition were in strong
demand, but the stion demand, but the skinny tre tu was not

Do Your Banking by R. F. D. Make the mail your messenger ; and save
 yourself the long rides to town.
Deposits may be made-butter and cheese cheques cashed-money withdrawn-just as easily and safely by mail as in person. Write the manager to tell you all about this convenient plan of Banking By Mail - or call in and have it explained, the next time you are town.

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growth and knowledge of Canada's complete as 87 years of can make it. cheques collect or discount sale notes, cash produce esponsible farmers. ustomers at all timeous, friendly service to our farmer
9,700,000 18,000,000 298 branches. General Off Accicount

\section*{The Bank of Nova Scotia}

\section*{THE GENERAL ANIMALS INS. CO. OF CANADA}

\section*{LIVE STOCK INSURANGE \\ GPAINT LOSS THROUGH DEATH BY ACCIDENT OR DISEASES}

SPECIAL RATES for Registered Catile and Horses. Short term insurance
at low rater for Show
WRITE US FOR FREE PROSPECTUSES
OHN H. HARRIS, 71 a St. James Street, Montreal. INS. CO.

\footnotetext{
ar. HARrIS, inspector, 31 Scott Street, Toronto. Phone Adelalde \(2740^{\circ}\)
}

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Capital and Reserve, \(\$ 8,800,060\) Over-100 Branches
The Molsons Bank is ready advise merchants, manufacturer and farmers how to finance theil
requirements.

Savings Departments at Every Branch.

Scotch Shorthorns,
6 Imported bulls,
4 home-bred bulls
25 imported cows with calves at foot or forward in calf.
Half mile from Burlington Jct. Phone
or telegraph, Burlingto
J. A. \& H. M. PETTIT

Freeman, Ont
Wholesale Quotations.
Apples.-Domestic 50 c . to 75 c , per
1-qt. basket, \(\$ 5\) to \(\$ 7\). Crab Apples. 35 c , to 40 c Crab Apples. -35 c . to 40 c . per \(6-\mathrm{qt}\), ,
50 c . to 60 c . per 11 -qt. basket. Blueberries - 1.75 to
basket. \(\$ 1.75\) to \(\$ 3\) per \(11-q\) pries Grat
Grapes.-Moore's Early, 65c. to 75 C per \(6-q \mathrm{t}\). leno, and 50 c . per 6 -qt. flat asket, champions, 35 c . to 40 c . per 6 -at
Peaches.-Crawfords, 60c. to 85c. pe 6 -qt., \(\$ 1\) to \(\$ 1.75\) per 11 -qt. basket. Pears.-Bartlett and Clapp's Favorite 50 c . to 60 c . per 6 -qt., 85 c , to \(\$ 1\) per 11 -qt.
Plums.-60c. to \(\$ 1\) per 6 -qt., \(\$ 1.25\) to \(\$ 1.50\) per \(11-\mathrm{qt}\). basket.
Thimbleberries. -15 c . to 20 c . per box Tomatoes.-Ripe, outside grown, 25 . to 30 c . per 6-qt., and 35 c . to 40 c . per 11 . qt . basket.
Tomatoes.-Green, 20c. per 11-qt. Beans.-Home-grown, 50 c. to 75 c . per 11-qt. basket.
Beets.-New, Canadian, 25c to \(\mathbf{3 0 c}\) Cabbage.-Canadian, 75 c . per dozen Carrots. -25 c . to 30 c . per dozen
bunches; 20 c . per \(6-q \mathrm{qt}\)., 40 c . per 11 -qt basket
Cauliflower- - \(\$ 2.50\) to \(\$ 3\) per dozen. Corn.-12c. to 15 c . per dozen

40 c to 45 c . pe
per dozen. Cucumbers.-20c. to 25 c . per 11 -qt basket; (pickling), 30 c . to 50 c . per 6 -qt., 50 c . to \(\$ 1.25\) per 11 -qt. basket.
Egg Plant. \(\$ 1.25\) to \(\$ 1.50\) per 11 -q. basket.
Canadian--Leaf, 40 c . to 50 c . per doz. oid head, 75 c. to \(\$ 1\) dozen, extra Onions.-Imported, \(\$ 7.50\) per \(100-1 \mathrm{~b}\). sack; Domestic, 50 c . per 6 -qt., \(\$ 1\) per 11 -qt. basket; Spanish, \(\$ 9.50\) per \(135-\mathrm{lb}\).
case.

Breadstuffs and Feeds.
Wheat.-Ontario (f.o.b. shipping points car lot, nominal; No. 2 winter, per car lot, \(\$ 2.03\) to \(\$ 2.08\); No. 3 winter, per car lot, nominal; No. 1 spring, per car lot, No. 2
spring, per car lot, nominal; No. 3 spring, per car lot, nominal. Manitoba (in store, Fort William)
northern, \(\$ 2.08\); No. 4 wheat, \(\$ 2.02\). Oats.-Ontario (according to freights outside)-No. 3 white, 90 c . to 92 c .
Barley (according
Barley (according to freights outside)Malting, \(\$ 1.35\) to \(\$ 1.39\).
Buckwheat
Buckwheat (according to freights out-

\section*{THE \\ oLsons BANK}

100 Branches
ons Bank is ready rchants, manufacturer

\section*{Departments} ery Branch.

Shorthorns,
bulls,
d bulls
cows with calves orward in calf.
Burlington Jct. Ph
PETTIT
Freeman, Ont

\section*{le Quotations.}
\$70c. to 75 c . per
8c. to 40 c.
-qt. basket.
e's Early, 65c. to 7 Fc and 50 c . per 6 -qt. fat
\(\mathrm{s}, 35 \mathrm{c}\). to 40 c . per 6 t
fords, 60 c . to 85 c . pe and Clapp's Favorite
1 per 6 -qt., \(\$ 1.25\) to
-15 c. to 20 c. per box
e, outside grown, 25 c
20c. per \(11-\mathrm{q}\)
wn, 50 c. to 75 c. per
nadian, 25 c . to 30 c .
35 c . per 11-qt. basket
ian, 75 c . per dozen.
to 3 c . per dozen
0 to \(\$ 3\) per
\(\cdots\) per dozen
per dozen.
45 c .
40 c to
per dozen.
to 25 c . per 11 -at
0 c . to 50 c . per 6 -q.
q. basket.
to \(\$ 1.50\) per 11 -qt.
q.
c. to 50 c . per doz:
to \(\$ 1\) dozen, extra \begin{tabular}{l} 
per dozen. \(\$ 7.50\) per \(100-1 \mathrm{~b}\). \\
\hline
\end{tabular} per 6 -qt., \(\$ 1\) per
\(\mathrm{h}, \$ 9.50\) per \(135-\mathrm{lb}\).

Feeds.
o.b. shipping points
No. 1 winter
winter, per car lot,
winter, per car lot,
per car lot, No. 2
Manitoba (in

ording to freights
90 c . to 92
90 c . to 92 c .
freights outside)-


SALE OF VALUABLE
Pure-bred Cattle
There will be offered for sale durin residence of the late Adam Young,
York Road on Mray
Township two
Oile

14 Registered Shorthorn Cattle Of which five are calvee, eleven of

Frank Young, R.R. No. 4, Trenton, Ont.
WANT AND FOR SALE MARRIED MAN DESIRES POSITIIN ON
farm. Experienced. Henty, Box 523 , Oakville. "PURE BRED FLEMISH GIANTS. DOES
(bred Four Dollars. Both sexes four months, Ontario.
 produce references as to honesty and sobriety.
The Pure Milk Co. Ltd.. Hamilton. Ontario. WANTED, AN EXPERIENCED MARE man for general farm work, yearly engagement;
house suppied J.A. Pettit, Freeman, Ontario. cultivation, 11 miles from Ottawa. For par-
ticulars ,, apply Roy McLatchie 73 Eccles St.,

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LIVE HENS Waller's 702 Spadina Ave. Toronto, Ont. prompt shipment), No. 2,3 and 4 yellow, \({ }_{\text {Peas }}^{\text {nominal (according to freights outside)- }}\) Flour.-Manitoba (Toronto)-Government, standard, \$11; Ontario (prompt standard, \(\$ 10\) to \(\$ 10.50\), Montreal and Millfeed.-Car lots delivered, Montreal freight, bags included)-Bran, per ton,
\(\$ 12\) to \(\$ 45\); shorts, per ton, \(\$ 44\) to \(\$ 50\); good feed flour, \(\$ 3.25\) to \(\$ 3.50\)
ton, \(\$ 22\) to \(\$ 24 ;\) mixed, per ton, \(\$ 10\) to \(\$ 19\) per ton, \(\$ 10\) to \(\$ 11\).

Hides and Wool.
City Hides.-City butcher hides, green, 35 c ., flat; calf skins, green, flats, 65 c .;
veal kip, 45 c .; horse hides, city take-of., \(\$ 11\) to \(\$ 13 ;\) sheep, \(\$ 2.50\) to \(\$ 3.50\); spring Country Markets. cured, 35 c .; part cured Beef hides, flat bob calf, \(\$ 2.50\) to \(\$ 3 ;\) horse hides, country
take-off, No. \(1, \$ 10\) to \(\$ 11\); No. \(\$ \$ 7\) to 88 ; No. 1 sheep skins, \(\$ 2.50\) to \(\$ 3.50\) Tallow.-City rendered, solids, in bar-

\section*{The Auto-Home Garage}

is just what you need
for your car. It is built in sections: any one painted and glazed complete. Built in four early, have a neat, car in cold weather.
A. COATES \& SONS MANUFACTURERS ontario

National Educational Conference

Twelve outstanding addresses by the best
known public men and women of Canada, the United States and England.
REPRESENTATION is being asked from every public crganization in Canada. If any In addition, ample provision is let us know. for individuals who will attend the conference in their own capacity.

Address any inquiries to
The Convening Committee 505 Electric Railway Chambers WINNIPEG, OCTOBER 20-21-22

> THE AIM To direct public attention to the funda-
mental problems of educational systems in Canada. tion in its conser education in its relation to To undertake the es tablishment of a permanent bureau to
guide and assist the educational thought of
the country.

The Citizens' Liberty League is an organization of representative men and women throughout Ontario, who through necessity have banded themselves together to oppose all legislation (Dominion or Provincial) which tends to curtail the liberties and lawful rights of the citizen.
In view of the imminence of the Ontario Referendum the activities of the League will for the present be chiefly directed to

\section*{SANE LIQUOR LEGISLATION}

The Ontario Temperance Act, adopted by the Government as a war measure-without the vote of the people-is legislation that does curtail personal liberty and one which has bred great dissatisfaction.

The Citizens' Liberty League is absolutely opposed to a return of the open bar as it previously existed in Ontario under the old License Act. The League believes that The Ontario Temperance Act should be repealed and so enable the Government to enact a law in accord with the sentiment of the people, permitting the general sale of non-intoxicating beer and light wines and the sale of pure spirituous liquorsonly through Government agencies under proper restrictions.

Now that a Referendum is about to be taken, the members of the League feel that every citizen should clearly understand the meaning and significance of the questions asked in the Referendum Ballot.

In order to accomplish this purpose the Citizens' Liberty League will discuss all phases of this great issue in the public press in the interests of sane, moderate temperance legislation.

CITIZENS' LIBERTY LEAGUE

22 College Street, Toronto
\(\qquad\)
Hon. President:
Sir EDMUND B. OSLER
Lt. Pol President:
COUNCIL
Alfred O. Beardmore
Alfred O. Beardmore Aemilius Jarvis
\(\begin{array}{ll}\text { Alfred O. Beardmore } & \text { Aemilius Jarvis } \\ \text { 5. L. McCarthy, K.C. Professor J. J. MacKenzie }\end{array}\) C. E. Lanskeil
P. A. Manning

Major A. C. Snively
Major A. C.
James Ince

James Bain, K.C.
W. R. Johnston Wrank Darling Frank Darling
C. Frederick Paul
T. L. CARRUTHERS, Secretary

VIce-President:
1. F. HELLMUTH, K.C. Hon. Treasurer: GOROON OSLER
executive committee

\footnotetext{
No person directly or indirectly interested in the liquor business may become a member of the League or contribute to its funds.
}

Founted 1800
The Control of Sawflies in Wheat, Rye and Barley. The Western Wheat-stem Sawfly origin-
all lived in native grasses. From these ally lived to small grains such as wheat rye and barley. It has fluctuated in
rembers from time to time but on the numbers from tume the thas gradually become more numerous and to-day is probably more abundant than it has ever been before. Many farmers report a fifteen per cent loss The Sawfy, when mature, is a slenderbodied, four-winged fly, with two or more yellow bands on to to the frot week in July and may be recognized from other fies by its habit of resting head-downpants. Eggs are deposited within the tems of wheat, rye and barley. In a hort time these eggs hatch into small ellowish-white grubs which commence frow downwards until they reach the base of the plant. This hollowing out of the stem throughout its entire Iength is characteristic of the insect. and at this time are almost half an nch in length. The grub then cuts the stem through by gnawing a ring around hidden within until June of the following year when it turns to the adult fly state. The Wheat-stem Sawfy winters in fhe stubbe of last season s crop; it aving it first egrs upon the plants closest to its last season's breeding ground. It may then move into the crop but as far more eggs are deposited on the are usually more severely infested than are the centres.
REMEDIES.-(1) Plough all infested land between August ist and June 10th of the following year and on the furrows so that the stubs in which the grubs occur are upside down. The packing of loose spring ploughing the entire field turn down as much as possible along the edges where injury was (3) When the injury promises to be very bad oats may be grown as they are
immune to the insect. Winter rye, or
When account of its earliness, is also apt to suffer far less than wheat or spring rye.
Burning stubble, disking or cultivating does not kill the grubs.

\section*{Forest Fires}

Prosecutions of settlers for causing for est fires by burning their land-clearing
debris without official permits are proceed? ing in Ontario, Quebec and New Brunswick. Convictions with heavy fines have already been secured in numbers of
cases. Of twenty settlers brought before the New Brunswick courts in July, fourteen were convicted and given stiff penalties. In addition the magistrates
rated them severely for indifference to rated them severely for indifference to
human safety and the security of neighbors' property. Quebec has sent several settlers to jail because of carelessness in burning oft their lane or the lowest forest fire losses of the prairie provinces this year largely because of a vigorous enforcement of the system of supervising settlers
fres
Exactly the same law is in force in hres. Exactly the same law is in force in
Saskatchewan, but was left a dead letter by the Provincial authorities, with the result that Saskatchewan lost an inAlberta has not yet taken provincial action. in curbing the forest fire evil, although to it belongs the primary responsibility. Al-
berta's losses in timber have been enormous and the evil effects upon the provincial water supply, for pows con-
rrigation setion, are among the serious con sequences.
sociation.

Breeders interested in milking Short
horns and Berkshire swine would find it profitable to visit Credit Grange
Farme, at Meadowvale, Ontario. The Parm is only forty minutes ride fron
Toronto by C. P. R. or Guelph Suburban Both stations join the farm. Imported
herd sires are used in both) herds, and the breeding stock is of high quality When visiting Toronto Exhibition it would not take long to see these herds
If interested, write J.B. Pearson, Meadow

THE FARMER'S ADVOCATE
1607

\(\mathrm{A}^{4}\)LL Penman Underwear is free from rough seams or raw edges. It fits snugly, yet has a springy texture that allows perfect freedom of action.
Whatever the weight, you can be sure of comfort if you remember the name-Penmans.

\section*{Perrmans Undervear \\ "THE STANDARD OF EXCELLENCE"}

Preserves Leather -Kills Axdo Firction




Foundep 1860
are different ways of then
here the owner k and owner of the harm him to ofite siments, it it if
s and the tenant per cont ne cases where the tery per
stock and implemant urns is reversed. We lnoiry
are farming on a fity n being required a to do do fifty hare and the owner furnishe
stock and implements lord and Tenant farm to B for two years,
time A sold it to C before
up. Can C turn Bout
e is up? When A helped
ripping Cows. it injurious to the milk. ifteen or twenty leave thin
ows be striped Ne stripped immendites
N. B. C oreferable to milk the cows
fter the machine has if left fifteen or twenty
should been dow's Rights g separated from his wife,
claims her third hird out of the crop? He He
rden of onions whin a neighbor. J. T, I,
ray have deprived herself
o a distributive share of the separation agreement,
rwise she would be legally
\(m\) one-third m one-third of the eesally
payment of her husbands neral and testamandit's p of onions, but in thecty
should apply to the of the estate for payment
the estate to the harvesting and se se leceased, she could make the Surrogate Court for

\section*{Stock}
osperity market for oost of the land

LWAY
ixed farming and terms. Land that
\(1 /\) fodder crops of ve had at from sil my one-tenth down

ARM LANDS
ng, large crops of
rains, alfalata and
sum number of
sale at \(\$ 500\) an
rights.
nty years to pay
\(\$ 2,000\) for build-


Indsor Sation Montreal Que.
mer's Advocate.

THE FARMER'S ADVOCATE.


\section*{The Only Breed}
which can furnish both market topping steers and cows which
are profitable milk producers, is
the Shorthorn.
More pounds of beef, more milk,
more profits.
Dominion Shorthorn
Breeders' Association
W. A. DRYDEN


\section*{Shorthorns}

Aberdeen-Angus
Meadowdale Farm
Honzo Mallhews H. Fraleigh
Kennelworth Farm Ansue Propriotor

Beaver Hill Aberden-ARngus. and Oford


Among British Farms.
mpressions of a Canadian Among British Farms.
 tunities of visiting farms both in England
and Scotland. When first that oppor-
thity tunity came, I went out to various farms
with very mixed feelings. First I ex wected to see great thinigs at some of
phem,
them, and in this I was not disappointed. Secondly, I expected to find the methods
of handling machinery and horses somewhat crude from the Canadian point of pointed. Further observation modified my views on all the processes of farming
operations and left me convinced that there was something for us to learn from
the British farmer. In fact, I am strongly of the opinion that we could teach the
other some things very much to our other some things
mutual advantage.
I was most quickly impressed by the
differences in the machines and vehicles used, by what I would call the crudeness of the methods of hitching and by their
ways of driving their horses Ways of driving their horses. I used to
see many binders running in the large
fields of Yorkshire where the machine were drawn by three horses, two of which were hitched to the pole in the ordinary
way, while the third was hitched in front of the other two, by means of a chain and singletree. No evener was üsed. rode one of the horses, while another who
the binder and hande the binder and handled the levers. No
bundle carriers were used, and a great
deal of work was required to gather up the bundles. When the plows were turned into the same fields later in the
season, there were seven teams in the
one field. All the plows were single hand machines, and each man was driving only
two horses. When the warmons or cart two horses. When the wagons or carts
were busy on the road, the horses were
invariably hitchn fashion. On some occasions, three horses
were strung on in front of each other and two men were required to
men walking by their sides.
Those are a few of the scenes that
gave me my first and perhaps my most gave me my frst anc perhaps my most
lasting impression of British farms. They
are a few of the things which strike the are a few of the things which strike the
eye quickly and produce a striking im-
pression, past which a good many obServers never go; ronsequently, Canadians antique as he was a thousand years ago,
and conclude discussion of the subject by saying so. But they are hasty and they
have failed to discover the real merit in have failed fo discover the real merit in
the British farmer's methods. the British farmer's methoris.
When I first entered a British farm-
yar I I was struck by the neatness of the place. The clean, carefully swept yard,
the carefully housed machinery and the the carefully housed machinery and the
general absence of titter and disorder.
At first I thought this a model farmyard. When I had visited several others and
found them similar, I came to the conchoice of the day for my visit. But when
I had been in and by many. in different parts of the British Isles, at different times and at different seasons of the year British farmyards. The same may be said of the work in the fields as about the
farmyard. The British farmer turns a farmyard. The British farmer curns a
straight furrow and does a good job of his work. He thins evenly and hoes his roots
carefully. He piles his manure carefully, and spreads it when well rotted, and after a day of hau ing manare or threshing, he things so spick and span at night. as if
the job were complete. If the wagons the job were complete. If the wagons
are in use during the day they are all oacked carefully into their sheds at night,
If the thresher is in use, all litter is If the thresher is inachse, acovered up
cleaned up and the machine is cover
for the night. Upon one occasion I was for the night. Upon one occasion I was
stationed at an aerodrome in Yorkshire
just between two large farms of 600 or just between two large farms of 600 or
700 acres each, and day after day I noted that the general care and thoroughness mentioned were practiced on both these
farms. Those are a few of the scenes that lef
different impressions upon my mind re garding British farms and lead me to be-
lieve that thoroughness also was charac ieve that thoroughness also was charad
teristic of the British farmer.
Now let us look for a moment at the Now let us look for a moment at the
Britishfarmeramong his live stock. Ove there I saw farms as I have done here tha
we call stock farms, where the raising of stock is the particular business of the
farm. I saw farms largely given over to farm. I saw farms largely given over to
grain growing, but the more common


Day in and day out, the hard work of cleaning the stable has to be done. Stable cleaning with a wheelbarrow is It is hard to wheel a heavy wheelbarrow load through a muddy yard and up a slippery plank. And the worst of it is,
this harj, disagreeable chore has to be this hard, disag.
done every day.


A wheelbarrow does not hold much at a load, which means many trips before the work is done. The BT Carrier holds. three times as much as a wheelbarrow. It will tackle 800 lbs . in one load.


If you want to dump the manure sixty feet away from the barn you can do it easily. No more manure piles at the stable door. The BT Manure Carrier is loaded, run out and dumped in a jiffy. A boy can do the work.
 Another hour to yourself and relief from the drudgery of the hardest chore on the farm would be much appreciated, would it not? Let us send you our free book on Manure Car
can judge for yourself.


It is practically an impossibility to get the manure far enough away from the stable. The conditions in the yard make it impossible. Manure piles right fumes that spoil paint and woodwork, rot harness and at the first opportunity breed flies.


The hard work of cleaning the stable is cut in two with a manure carrier. It runs on overhead track so it does not matter about the state of the yard. No planks to lay; no snow to shovel; no more pushing to the top of the pile with
a wheelbarrow.


With a BT Carrier there is no muss in the passage ways. The big steel boltom bucket holds the valuable liguid With wheelhe valua ble liquid. With a wheelbarrow, the manure slops over and
the passages beceme fithy.


\section*{}

(2|PDTHE reputation of the De Laval Company is a most valuable asset. For over thirty years it
has been building up this reputation among Canadian dairymen and farmers

The ALPHA Gas Engine represents the same high quality among engines as the DE reputation of the entire Company is back of every machine it puts out.

That is why the ALPHA Engine is a safe buy for the farmer. I is a dependable engine with thirty years of reputation for honesty and service behind it.

If you don't know who handles the ALPHA in your vicinity write nearest sales headquarters for his name.


THE DE LAVAL COMPANY, Ltd. Sole manufacturers in Canade of the famous De Laval Cream Separators
 MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 branches and local agencies the world over

farm in Britain is the one where stock ar
a most important part of the farm's pro duce. First, I must say this: that in almost every case I was forcibly im-
pressed with the general evidence of pressed with the general evidence of good
breeding among the live stock of Britain. One never sees a flock of sheep, or a herd of cattle, where he cannot see at once the predominant blood of the breed which they represent. This is even true among grades, and the scrub from the point of
view of blood is almost non-existent in Britain. I was not only impressed by the evidence of good breeding, but by the
high quality of the live stock showing that high quality of the live stock showing that
breeding. As a rule, the live stock kept breeding. As a rule, the live stock kep
by the British farmer is of a very high quality. A great evidence of the value
of blood. The British farmer I found very attentive to the needs of his live stock. He has his sheep dipped always
His shepherd watches closely and correct injuries to the feet and sore mouths among his sheep. He provides his sheep and cattle with salt and oil cake and all the
little details of attention that go to male up good care. Not only does the large breeder do this, but the small farmer who only hasa few animals, handies them with
the greatest care and attention, and many the greatest care and attention, and many
of the finest animals in Britain are bred and reared by the
attentive farmer.

With the single exception of the labor
question, I was impressed also by the
economy of the British farmer. He does economy of the British farmer. He does
not neglect, but he does not waste and he
utilizes every bit of straw, manure and utilizes every bit of straw, manure and the place. He further increases his
economy by preventing waste by damage economy by preventing waste by damage
to machinery, fodder or live stock. These,
then, are the impressions which I recoived rom visits to British farms. In the first
the comparison is much in favor of the Canadian farmer, and it is in these the ters that we could give the British farmer and efficiency of the work accomplished,
he comparison is in favor of the British farmer. Of course, his methods do not Canadian method does, and therein lic not prepared to say that it is possible our methods of work and wholly adop our methods of work and our improved
machinery, nor am I prepared to say that

Why are HEREFORDS increasing so rapidly in Canada because they are bred for
A Single Purpose - Better Beef at a Profit that would make his hair stand on end."
"'ou're wrong again, sir!" came from
the critic, as amid the roars of the crowd,

\section*{HEREFORDS}

Canadian Hereford Breeders' Association, Ancaster, Ontario


ROBERT MILLER, Stouffille, Ont., Has


GRAND VIEW FARM SHORTHORNS


Ex-President William H . Taft delights o tell of one of his maiden speceches, in
which he was anything but a hero. The ipecker was on that easist of easy tasks, heckier cried out: "'You're wrong, sir!"
A little nettled, Taft continued without heeding. Presently, in answer to another
\(\qquad\) wrong, sir!"' again rang out. Angrily Taft cried: "Look here, I could tell this
mann something about the government
that would make his hair stand on end" past. He is out to adopt some of our after some of his in the live-stock industry.

\author{
F. W. \\ Crawford
}

SHORTHORNS SHROPSHIRES COTSWOLDS
WALNUT GROVE SHORTHORNS AND OXFORD SHEEP
Milking Shorthorns
entirely wrong. Each has had to meet
conditions that are very different in
crops, climate and market, and each has crops, climate and market, and each has
discovered ideas that would be useful to
the other

Now that both the Government and
the people of Great Britain have learned y experience that it is a perilous act to neglect the agricultural industry, we may
look for a considerable resumption of grain-growing in Britain. The people
have been encouraged during the war to make use of all land available, and they will not easily be turned from that
course. The Government are more dis course. The Government are more dis
posed than ever before to give support posed than ever before to give suppoure
to agricultural development. The future
then is very likely to find us realizing that then is very likely to find us realizing that
the British farmer is more of a factor in the food markets than he has a feen in the
it is possible for us to adopt all his though
it is possible for us to adopt all his thoroughness and carefulness; conditions do not permit. That the British farmer
could save himself much by adopting could save himself much by adopting
some of our simple methods of hitching and driving and by using some of our improved machinery is undoubted. We On the other hand could profitably adopt
some of his thorough and careful method Neither is entirely right careful methods. entirely wrong. Each has had to meet
place in
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we stood up and removed his hat. His

\section*{\(f=\)
 With such a cker will save dollars. \\ acker \\ ssisting that the
shhes your grain \\ er returns to the lown to the stack
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Widen specches. in
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jest of easy tasks,
ment, when the,
ou're wrong, sir!"'
continued without
again: "You're
a onked angry, but
looked angry, but
warpath. "You're
ng out. Angrily
I could tell this
rair stand on end."
sir!" came from
oars of the crowd,
ved his hat. His for knowledge in generał of the principle
upon avdich the business of the world mantiget. But I leave the matter here that if my rute outline for improved conappeal to those interested, my though ing wuntry people more of the privilege
Anu. Cesetable Growers' Association of vention in Detroit, Mich., from Septem her 'y to 12, at the Statler Hotel. Thi this various lines of vegetable Expert will cive addresses at the meeting. The

September 4, 1919
More Accommodation for Meetings Required.
Now that the farmer is being recognized as something more than a mere tiler of
the soil-as one who has mental and the sol needs equal to those of the best of men-there arises in country communities a need which already has ben fint thoug ned has been more impressed upon
this ned me of late because of other needs which are contingent to it, 1 have decided to pass my though The city man be he laborer or business man, has long had access to public halls and parks, where he business meetings or to be entertained, while the farmer has to confine himself for such gatherings to a school-house or of such meetings altogethe The disadvantages of using the school house for these various purposes are quite
obvious:-the seats are too small and too limited in number,-school sessions are apt to be dislocated or school property
meddled with, and in addition to this school prenises afford no sheter for horses or vehicles. As to the use of
churches for general purposes even greater obstacles present themselves, is in direct onposition to the religoous views held by many persons, and whatgard to this, we ont the honest convictions of our neighbors. Then, too, the church, when used for general purposes, frequently requires
alterations which necessitate the double labor of doing and undoing in a limited time and often at a most inconvenient season, Often, too, there is no church
conveniently located, convenienty Yocated. But there is no meople are only too familiar with the peopections constantly raised against the use of the church or the school-house for place for public gatherings in rural comIt may not be deemed either neces. sary or advisable to have a public hall or three sections might unite and choose a convenient location. The details of the
building and grounds could be safely leff to those directly interested, but I am cipal Governments should take an active In addition to having a public place always available for agricultural meetings, Women's Institute meetings, for public
lectures, for public entertainments, the lectures, for public entertainments, the
country people would always have a place in which to gather for social enjoy-
ment, and better still, a place in which to meet and organize reading clubs, study
clubs, or progressive clubs of any kind relating to matters or subjects in which too, I am hoping that in the very near future there will be provision made for
special winter school sessions particularly adapted to the needs of the youths in country districts whom necessity or a
misconcention of the duties and responsibilities awaiting them have been bepived of the education that is daily
beoming a positive necessity to every I am indebted to the farmers and the youths in country places for whateve value there may be in the suggestions to is a conscious need felt both among young men and men who have assumed the re
sponsibilities of homes for a better knowl edge of practical English, for power and
practice in the art of self-expression, and

THE FARMER'S ADVOCATE.
1611


Polarine Prevents Bearings, Gears, Valves and Cylinders from Overheating
Polarine is the real friction-re- Three grades - Imperial Polarine, Imducing lubricant. With it you perial Polarine Heavy and Imperial can speed your engine to the limit. \(\begin{aligned} & \text { Polarine } \mathrm{A} \text { - - take care of every } \\ & \text { of engine and service condition. For }\end{aligned}\) The parts are lubricated with a firm, protective oil film that withstands intense heat and severe contact. Some oils can't stand rubbing or heat. They break down gum, let friction gain headway
Polarine keeps engines young and repair bills away. Stops power
escaping from the cylinders-burns escaping from the cylinders-burns Good for your truck and tractor too.


\section*{IMPERIAL OIL LIMITED \\ power - Heat - Light - Lubrication \\ Branches in all Cities}

\section*{motors th}

Comes in steel barrels and half-barrelsin one-half, one and four-gallon seale cans. Imperial Polarine for sale by good The Imperial Oil Man will advise the best lubricant for your car, truck or tractor He is well posted on every lubrication need Ask for Polarine book on Automobile


Plaster Hill Herd Dual-Purpose Shorthorns Ability to Move For sale ten young bulls from large, deep milking cows, with records
up to 12,000 lbs. 15 cows and heifers heavy producers mostly all in calf to Green Leaf Record 96115 or Dictator whose two nearest dams verage over \(12,000 \mathrm{lbs}\).
ROSS MARTINDALE CALEDONIA, R. R. No. 3, ONT
Grand River Dual-Purpose Shorthorns
ar old. We nov have 30 cows in nilk, could spare a dozen females. Seven splendid young bull

HUGH A. SCOTT
CALEDONIA, ONTARIO



 SPRUCE GLEN FARM SHOR THORNS A number of good young bus Shorthorns Landed Home on June the importation of bo head landed at my farm

 1854 Shorthorns and Leicesters 1919 ing rams and a few good ram lambs. For sale now. Miss Charlotte Smith, Clandeboye, R dual- porpose
Two Shearl
R. R. No

Maximum Loads

\section*{this Shires are easily pre-emi-} nent. Business demands, too, require that large loads be moved at two factors which can accomplish this, heavy horsés and motor lorries. Anything lighter than a typi-
cal Shire is completely useless for this purpose.
G. de W. GREEN
\(\qquad\) Vardella Dual-purpose Shorthorns 8 choice young bulls; 30 females, cows and heifers.
All of good size, type and breeding. Herd headed Alf of good size, type and breeding. Hilk head lod
by The Duke; dam gave \(13,599 \mathrm{lbs}\). milk, 474 lb . butter-fat. He is one of the greatest living com-
binations of beef, milk and Shorthorn character. All priced to sell. Write, call or phone.
Alloway Lodge Stock Farm
ANGUS, SOUTHDOWNS, COLLIES

A choice lot of Angus cows in calf to Queen
Edward. Collie pappies-A litter now ready. ROBT. McEWEN, R. 4, London, Ont.


\section*{Concerning Your Fall Shoes}
\(\coprod_{\text {it is }}^{\mathrm{F}}\) you would secure service and satisfaction from your shøes this Fall, it is more than ever important that you should go to a reputable dealer in whom you have confidence, and see that the maker's trade-mark is on the shoes you buy. This for the reason that leather is now scarcer than at any time during the war, prices are higher, and some grades of leather are to-day almost unobtainable at any price.
IT Millions of pairs of shoes, millions of feet of leather, have been bough for the Nations of Europe whose stocks of footwear were entirely wiped out by the war. This has more than offset the reduction in demand for army shoes. And coming upon a supply of material which was already scarce, it has resulted in a situation which, for the time being, is serious.
ITherefore, unless you have first-hand technical knowledge of shoes and leather of the retailer.

The retailer who has a reputation to sustain will not endanger it for the sake of a little extra profit. And no established manufacturer will stamp his trade mark upon goods which do not represent good value at a fair price.
or The chances are that you do not feel any great interest in the leather market, you ARE interested-vitally interested-in macture and distribution of shoes. But reliable footwear at Tair prices. And the value which yourself and your family earned dollars is inexorably determined by those same conditions which your hardwe call the shoe trade. You cannot control them, any more than we can. But you CAN control your method of buying, so as to get the greatest possible value for every
dollar you spend.
If So we think it only just and proper to tell you, at the commencement of each season, what the conditions really are, so that you may base your buying judgment
upon them.

To Buy Wisely This Fall:
FIRST: Go to a reliable dealer whose reputation you know and whose judgment you ca
trust: an
SECOND: Make sure that the trade-mark of a manufacturer whose standing is known is
the shoes you buy
Our booklet, "How to Buy Shoes," is gladly sent without charge to any address in
Canada. Please address inquiries to our head office at Montreal.

\section*{AMES HOLDEN McGREADY \\ T. . . Reprer, paidect \\ Shoemakers to the Nation}
halifax st. join quebec montrbal
ottawa toronto london
winnipeg regina saskatoon calgary
edmonton vancouver
\begin{tabular}{|c|}
\hline \multirow[t]{5}{*}{\begin{tabular}{l}
ANTICIPATION will be greater than REALIZATION \\
Good Shorthorn Bull \\
I have a few imported ones ready \\
of my own breeding. The \\
WILL A. DRYDEN \\
WILL \(\qquad\)
\end{tabular}} \\
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English Dairy Shorthorms

YNNORE STOCK FARM
F. W. COCKSHUTT, Brantford



Founded 1866

\section*{Questions and Answere Miscellaneous.}

Heifer Not in Calt Gives Milk. One of my heifers was bred to freshen
this coming September. In the sphin this coming September. In the spring
she made udder and I could draw a thin she made udder and I could draw a thing ncreased very little during the summas She shows no sign of being in calf ard
comes in season regularly. Is it possibl comes in season regularly. Is it possible or this heifer to make udder and sfill
not be in calf, and it is safe to breed her? Ans.-This is not an uncom. M. S. currence, and the fact that the heifer comes in season regularly indicates that
she is not in calf. It would be o breed her.
Marrows, Onions, Canning Corn 1. What is the best method of keeping 2. Will vegetable marrow be good for winter keeping, and if so, ke good for est method of keeping them also, and use?
3. Also, give the best method of drying nions. Have quite a lot of black seed 4. What is the best approved method for canning corn? Ans.-1 H. A. Ans.-1. Squash will keep best if
stored in a dry atmosphere at a temperastured in a dry atmosphere at a tempera-
ture that is fairly warm, about b0 degrees ture that is fairly warm, about 50 degrees
if possible. They should he if possible. They should be stored i
single layers, so that they are not pile on top of one another; otherwise they will be apt to rot
2. Vegetable satisfactorily in the winter in be kept way as ordinary varieties of squash Fall and winter sorts are not harvested 3. Onions from frost during August and September harvested tops are dead and more or less shrivelled up. They are usually pulled and laid in windrows, one for every four rows, being
careful not to expose white onions to too much sunlight and for too long a time. After drying in the field for a time they are gathered in crates and either left in
the field for a few days or taken to curing shed. This should be a cool and well-ventilated place. 4. This question has been answered several times in the Home Magazine
section of "The Farmer's Advocate" See the issues of June 19, page 1187; June
26; page 1229; July 31, page 1403. We 26; page 1229; July 31, page 1403. We

Growing Black Raspberries. How are black raspberries grown, with
information as to soil, propagation, information as to soil, propagation,
fertilizers, shade and pruning?

Ans.-Black raspberries are quite difrom red raspberries, in that they are reproduced by layering for commercial purposes. The tips of the new growth
bend over and reach the ground about August or the first of September, and are then covered with a spadeful of ground, when they take root and the following spring send up a new plant. At that time
the young plants can be cut away from the parent plant and set out in another plantation. Generally speaking, a sand oam soil is best, although black, caps can
be grown quite successfully in heavier soils if care is taken to cultivate well an add some humus. Black raspberries can be grown very successfúlly in a garden That is cultivated well and kept clean much excessive hot weather, but, on the other hand, they should not be grown in the shade for best results. A moderat
application of barnyard manure every year is the most common and satisfactory method of applying fertilizer, but if to much manure is applied the canes may Black-cap raspberries will send up a fev sprouts from the root, but too many
should not be should not be allowed in order to secure
the best development of the plants. If a the best development of the plants. If a
trellis is not provided, the bushes can be made stouter by pinching off the sprouts when they are about fifteen inches high and the next spring the lateral canes may
be shortened back to twelve or fiftee inches. Old canes of black raspberries
that have borne that have borne one crop of fruit have no
further value and should be further value and should be taken out as
soon as the crop is harvested New canes will be crop is harvested. New
their places

September

\section*{3 and Answere.} cellaneous.
In Calt Gives Milk. fers was bred to Treshen
tember. In the tember. In the respen
and I could draw and I could draw a thing,
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sn of being in calf and \begin{tabular}{l} 
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\text { o make udder posible. }\end{array}\) \\
\hline
\end{tabular} d it is safe to breed beirl not an uncommon oce regularly indicates that
It would be quite ns, Canning Corn best method of keeping
ashh during the winter)
he ass during the winter?
bole marrow be ooo for
and if so, kindly and if so, ke kindyd give
feeping them also, and ipe enough to cut for e best method of drying
ite a lot of black seed best approved methoc sh will keep best if
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varieties of squash of frost. ared are harvested
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the Home Magazine Farmer's Advocate",
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1 set out in anothei ly speaking, a sandy
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to cultivate well an lack raspberries can
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lid he will send up a fev of ther to secur
on plants. If
the the bushes can be
hing off the sprout
fift inteen inches high f black rar firteen
rop of fruit uld be taken out no
sharvested each year to take

September 4, 1919
A Land of Forests-Without Forestry.
by dr. C. D. howe, faculty of forestry, TORONTO, IN ADDRESS TO
The primary object of forest management is to maintain unimpaired the capital stock, the for betwee lumberin lies the direscebering and forestry. Lhought of a future forest trees the tame area. forestry practice repes the trees only after carefut planning for the future crop. When this fundamental object has been accomplished, the next procedure in order is if possible, to increase the earning capacity of the capital invested in the forest. Although minor objects and methods of technique may differ under varying circumstances, these are the two elemental principles at the base of all forestry practice. Keep the capital intact so that its returns will be as continuous as possible; increase the earning capacity of the capital. Nothing about that is hard for a business man to understand! In fact, someone has defined forestry practice as the application of business principles in obtaining the continued productivity of woodlands.

Cutting Coupons-and Cords. Suppose you had an acre of land
covered with trees of commercial value. Now, trees possess the miraculous power of reiuvenating themselves each year
and the result is a layer of new wood Let us suppose that the new wood laid down in a growing season on all the trees per acre. You could remove a cord of wood each year and your capital stock would remain unimpaired. You could on capital invested or wou could limagine yourself cutting coupons instead of cords. And the wonderful thing about it is children could goo on doing yhis children's as the sun shines and the rain falls, for wood is only solidified sunshine and water plus a small percentage of mineral salts
from the soil. \(I\) will substitute for the words, you and your children the term, the state, the nation. I confess 1 can
never pass this point without dreaming of what might be if men only demanded in governmentar business the same stand
ards that they insist upon in their private business.
The primary object of forestry practice,
then is to maintain the capital stock in then, is to maintain the capital stock in
a productive condition. I take this to be the foundation upon which all legitimate business rests- the security of the in-
vestment. As business men you make this your initial demand upon the state
Do you or have you made the same deDo you or have you made the same de-
nand in behalf of the forests in which you are part-owners, which yield revenues to the public treasury, and so indirectly
reduce the cost of carryino reduce the cost of carrying on you
business, whatever it may be? Some Business Data.
Perhaps you have not the data at
hand. Let me answer the question for you. One-third of the geographical area of Canada doobtless, is incapable
of producing trees of sawlog because the inhospitable climate or because of ditions. The actual sawlog producting miles and at least total 500,000 square eeen burned. Any of you who have
ravelled in the north the havelled in the north country or who
has even ridden on the Transcontinental railways must be fairly well convinced hat our forest capital has not been
maintained unimpaired and therefore, according to our definition, the primary object of forestry practice has not yet The capital values destroyed by fire
are incomprehensibly large. The effect are incomprelensibly large. The effect
of this loss of wealth upon industry is already apparent, for it has forced
lumber concerns to seek materials ach lumber concerns to seek materials each
year farther and farther from the market, year farther and farther from the market,
which muans that the consumer has to pay more and more each year for the
products of the forest. We are using in Toronto forest prod cts whose raw material came from the other side of
the height of land in the Hudson Bay


\section*{Ottawa Valley Holsteins}

\author{
SECOND ANNUAL SALE
}

59
Choice Selections, Drawn from Easterin Ontarlo's Leading Herds

SELLING AT EXHIBITION GROUNDS

\section*{Ottawa, Ontario, Friday, September 12th, 1919 IN CONNECTION WITH THE CENTRAL CANADA FAIR)}

Included in this offering will be a large number of richly-bred females, due to freshen this Fall, others bred to some of the outstanding sires of the breed. Also a small number of open heifers and a few good, young bulls. A select offering-guaranteed right.

Consignors: A. C. Hardy, Brockville; J. S. Havey, Arnprior; J. B. Wylie, Almonte; Cameron Bros., Mountain; P. W. Taber, East Farnham; W. C. Stevens, Delta; J. Willoughby, Smith Falls; John Anderson, Oxford Mills; James Knapp, Merrickville; R. H. Earle, Merrickville; H. W. Imerson, Gananoqué; A. W. Churchill, Gananoque; W. Plaunt, Northcote.

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For Catalogues, address COL. T. S. WOOD (in the box
W. R. CUMMINGS, Cummings' Bridge, Ont., Secretary and Sales Manager. J. S. HAVEY, President



\title{
Killing the Forest Children.
}
\(\qquad\)
\(\qquad\)are planted by man. Other thousands
of square miles, less seriously burned are


\section*{HERDSMAN}

Acatomed to Holsteins; must understand feeding. Apply

JOSEPH KILGOUR
Sunnybrook Farms, North Toronto

Messrs. A. J. Hickman \& Co. Holto Crange, Brackloy, England (lato

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In your spare timo secure NEW SUB
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\section*{Manor Farm Holstein-Friesians}

 GORDON S. GOODERHAM, Clarkson, Ont.

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individual. Also fine bulls of younger age, prices reasonable Apply individual. A
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29 Pounds Butter-103 Pounds Milk
D. B. TRACY h hanulon huse Cobourg, Ontario PIONEER FARM HOLSTEINS
Walburn rivers \& Sons \(\qquad\)
Holstein Bulls


Cedar Dale Farm
 sins fome of Lhatev

restocking themselves naturally to valuconstantly reduced and transferred into
the the first class mentioned becáuse of inadequate fire protection. I asked you
a moment ago, if you had demanded security for the Canadian forest capital in which you share. Have you? You
have spent a million dollars a year for have spent a million dollars a year for
the past ten years for protection of your property. You have invested ten million
dollars in a certain asked for an adequate return on that yousestment? Let me tell you, although
you have spent millions of dollars on forest protection, the safety of the forests Is still largely in the hands of Providence. Things go fairly well wather conditions. exceptionally dry season. The technique sufficiently fing methods has not been extra dry season. A very effective practised in certain districts in the West, has not yet been employed other than
experimentally in the East, namely the extremely in fla mmable in softwood forests, as in the north country. Unless the the time of lumbering, we may as well causts. The best fire-fighting organizain the world could not master a situation The Patronage Millstone. Another reason for this insecurity of thought have not been put upon the development of
of fire-fighting put upon the
methods is largely because the rangers are not
hired because they are efficient workmen seasons.
I have only words of praise for the men in charge of the Dominion and
Provincial Forestry Branches. There are men at Ottawa; there are men here in Queens sial cark, men in nearly evard working, patrictic
provincino who are giving the best efforts of
men whes.

Founded 1860
successful because in the end they find stride every tral patronage. Who is to onster, political patronage. Now, I have thought over the matter a good deal and 1 have come to the conclician, no official of the government is to blame; they are simply the victims of In inherited political tradition with regard to the methods ond I are really ment responsible parties. The average citizen is to blame because he does not demand in government blusiness it his same stavate business. Political patron age is a question of public morals and
the problem will be solved only on this round. If, as an organization, you are contemplating in Queen's Park on this subject, I make bold to suggest that you state the case somecarious condition. Unless they are relieved, their revenue-producing function will be practically destroyed be because of repeated forest fires. We believe this condition is ctiefly due to political patronage, a system for which you are not responsible because you In fact, we acknowledge that we as tax paying citizens are really responsible
for a condition of affairs for which we have in the past condemned you. Now,
cannot we get together and devise some means of putting forest protection oi a business basis. I have a feeling that the and the cabinet minister are just as disgusted with the whole business a anyone else, and that approached in this malf wa

What of White Pine
in forestry practice is the maintenance of the earning power of the capital stock This primary object has not yet been
accomplished in Canada because we have not yet devised the means and methods to make the forests reasonably Now, let us turn to the unburned logged of forestry applies to their treatment of forestry applies to their treatment
We have the testimony of lumberme that the end of the white pine supply
in Eastern Canada is in sight. There will be scattered white pine trees in th forests for many years, but outside the of virgin white pine remain. Iarge stands tions that white pine does not reproduce mixed forest. The young seedlings that spring up after logging choke and finally kill the little trees. is, where the trees were in pure stand themselves with pine, but we don' know how extensive such areas are know, but we don't know. We nee much more investigation of the matter indicate that we have not accomplished the first object of forestry practice in not kept the capital stock represented by white pine trees unimpaired and con A Two-Thirds Reduction. For the past two summers I have been
investigating for the Commission of Conservation at Ottawa, the regeneration burned pulpwood lands in the Provinc of Queber. I cannot here go into the details of my results, but I would like
to tell you what we found on a certain representative area of 97 acres which
had been severely culled. Twenty-six Spuce trees per acre had ween removed hose 97 acres a and determined the death chantatle size there will be only 7 spruce
trees per arre to take the place of the 26 spruce trees, removed by the logging the futur- forest as in the virgin forest.
 very impontant that we should know.
If it © presentative, then it will be
verv i. .adent to you as business men that

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Are you giving your Automobile, Station-
ary Engine, Tractor and other farm
machines the proper lubrication attention?
All of these must be correctly lubricated if
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\hline \(\rightarrow\) thick oil for worn and loose bearinge \\
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\(\mathrm{ln} \mathrm{l}_{5}\)

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\section*{IMPERIAL OIL LIMITED \\ power Heat Light Lubrication \\ Branches in all Cities}
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\begin{aligned}
& W_{\text {wish something to complete a a show herd for either of these exhi- }}^{\text {E LIL }}
\end{aligned}
\]
\(\begin{aligned} & \text { Our new importation sailed from Bristol on June } 25 \text { th, } \\ & \text { for it we are offering special hargains in cows and young bull }\end{aligned}\)
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CANADA'S MOST BEAUTIFUL JERSEY HERD
JERSEYS of his daughters on the Island of Jersey, 1914, second in 1016. 10 and again first in
JERSEYS 1917 We are now offering for sale some very choice bull calves, ready for


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Our bulls took the Senior Chammionshi, Junior Championship and Grand Cham pionship in Sherbrooke, and first in their respective classes at Quebec, in addition to
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Geo. H. Montomery
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white
Write, or come and see.

Anyone interested, write us, or come and see orr herd.
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When writing advertisers please mention Advocate.

Have you seen the advertisement of SILO ROOFS
\(\qquad\) August 28th, 1919? If not, silo owners will find ti to thei
adoantage to read same. John T. McElhone, R. 2, La Salette, Ont

\section*{JUsT JERSEYS \\ Daldcvinis} COATICOOK, QUE

\section*{Jerseys and Berkshires}

 mondime HOOD FARM Lowell, Mass. City View Ayrshires


Glencairn Ayrshires \(\underset{\text { years. }}{\mathrm{Her} \text { d }}\) Protaliblithed it Tom 9,600 to 11.022 lbs it it that sort of prod uc

Septem but I re
the forest capital stock represented by
spruce trees has not been maintained unimpaired and continuously maintaine Therefore, we have not accomplishe the primary object of forestry practice in respect to spruce

Balsam in Quebec
Balsam trees at the rate of 32 per acre had been cut from these same 97 acres Following the same line of investigation
as with the spruce, we found that in the next crop there will be 12 trees per acre where 32 hoe been taken away, or,
in other words, there will be a little more in other words, there will be a little more
than a third as many balsam trees in the than a third as many balsam trees in the
future forest as were in the virgin forest Nor is this the whole story. Our in vestigations indicate that 7 of those 12
balsam will be so badly da balsam will be so badly damaged by so the final result will probably be 5 pulpwood bearing balsam trees wher 32 were taken away.
We don't know y
We don't know yet whether this area balsam lands in Eastern Canada. It is
bet-ove very evident that we should know. II
it is representative then it is no longer it is representative then it is no longer
necessary for me to bring to you any necessary for me to bring to you any
more illustrations to drive home my assertion that we have not attained my first objective of forestry practice be-
cause we have not maintained the forest cause we have not maintained the forest
capital unimpaired and in a continuously productive condition.
Who Should Manage the Forests? Let me point out to you a great anomaly
that very largely accounts for our present forest conditions. As business men you will appreciate the point. The Forestry are of \(25,000,000\) acres g D with the Forest Reserves. It has a staff of technically trained foresters. With the exception of settlers' permits and a few
odd logging jobs, the activities of the odd logging jobs, the activities of the
Branch are confined to fire protection. All the licensed lands, all the big logging perations within the forest reserves are in charge of another branch at Ottawar us come nearer home. The Province of Ontario has around \(7,000,000\) acres in forest reserves. It has \(10,000,000\) acres the same area in pulpwood concessions There is a Forest Branch with technically trained forests. There are no betl no part in carrying out the timber regla no part in carrying out the timber regul
tions for the licensed lands. That is in the hands of another branch which has
no forester in it. Managing forests no forester in it. Managing forest soductive is a big job it calls for men with special ability and special training Those of you who are manufacturersto whom do you turn with your technical
problems? Do you turn them over to

A Challenge to Business Men May I refer you back to my tex forestry practice. The reason for thy
is that you and business men like you
then aken interest enough in your propert to see that it is properly managed, to
demand an account of stewardship. demand an account of stewardship well as the part of elementary business policy to make an effort to sustain an industry which stands third as a produce of wealth in this country, an industry that
created for Canada in 1917 forest products valued at \(\$ 116,000,000\), an industry that employs over 50,000 people and distributes nearly 40 million dollars in
wages. These are concerned with wood products as such. If we add to these sums the industries partially dependen upon wood in some form, we find tha 1917 by over \(\$ 250,000,000\). Surely in the interests of the continued prosperity of our country, the wheels of thes industries should continue to turn.

> The Brighter Side.

We are still much better situated in country, but that does than any othe difference or the delay of recuperative methods. Four-fifths of Canadian soi is probably better adapted to the growing other country has such large forest areas, so accessible to transportation by water and by rail, so near the great
consuming markets. Russia may have consuming markets. Russia may have
more timber; the United States undoubt-
edly has more and in sreater variety, have not accomplished d
ject of forestry prictice
m in Quebe
t the rate of 32 per acre
m these same 97 acres om these same per acrese
me line of investigation ce, we found thatigetion ite
will be 12 trees per acre been taken awy, ore,
here will be a little more nany balsam trees in the were in the virgin forest
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have not attained the \(t\) maintained the be and in a continuously
lanage the Forests to you a great anomaly As business men you
e point. The Forestry a is charged with the It has a staff of techssters. With the exthe activities of the ed to fire protection.
nds, all the big logging the forest reserves are forester in it. Le
me. The Province o has 10,000 acres in ense pulpwood concessions.
ranch with technicall There are no better out the timber regu
ed lands. That is branch which bas remain continuously job; it cals for men training. are manufacturers n with your technical

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The reason for this
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roperly managed, to nt stewardship. elementary business Is third as a producer itry, an industry that
1917 forest products 0,000 , an industry 0 million dollars in If we add to these partially dependent wealth of Canada in ontinued prosperity itinue to turs plies than any other loes not justify inted to the growing uch large forest , so near the great
Russia may have
ted States Russia may have
ted States undoubt
in greater variety,

SEPTEMBER 4, 1919
but I repeat, no other country has such
large forest areas so near the preat large forest areas so near the great
consuming markets of the world. With proper forethought and proper foreaction there is no reason why Canada
should not supply the timber require should not supply the timber require-
ments of the world. Properly managed our great forest areas might turn for all time continuous streams of sylvan wealth into our public treasuries. But they never will; they will lie as idle waste
lands, a burden upon the tax-payer, as so many of them already are, unless recuperative methods are inaugurated at once, unless you and the business men
like you throughout the country take more interest in them in the future than you have in the past.-From Canadian

\section*{Questions and Answers.}

Miscellaneous.
Hag Moth Caterpillar. Having found this species of cater-
pillar on a Wealthy apple tree pillar on a wealthy apple tree, we should Ans.-The very peculiar caterpillar de Gonzaque, P.Q.., is dalled the Hag Moth Caterpillar (Phobetron pithecium) from its fancied resemblance to the brown specimen was found eating the leaves of Wealthy apple tree; being a rare insect it does no harm. It belongs to the family of slug caterpillars, and is dark brow
in color, nearly square in shape, thickly
covered covered with short, fur-like hairs; o each site there are four peculiar ap
pendages sticking out from the body, which give it an extraordinary appear ance. When fully grown it is about an
inch in length and nearly the inch in length and nearly the same
breadth. It spins a round cocoon of silk which is usually fastened to a twiy of The moth, into which it fis been feeding. lark brown in color, its front wings are crossed by a pale, yellowish wavy band and are marked with some spots of the it measures from an inch wings expanded a half. The strange appearance of the protective no doubt forms a complete protective disguise, which saves it from
being devoured by birds or other natural 1. Miscellaneous 1. Is a man a legal counc llor when he 2. Can goord road system be put into people? 3 Can they lay out a grant on road
vithout fixing bridge that is not safe to
ross? 4. Council have fenced each end of
bridge, put big log across road, and hotices up to close road. Can I make hem fix bridge, as I have to cross bridge "waiting for the bridge to be fixed? 5. The bridge is on concession and
road has been travelled for 15 years. an they close it nowi R.F.
Ans.-1. A man may be legally Nember of a municipal Council, not rithstanding that he was not present at 2. A "Good-Road"'
adopted by the county council by by-law and without first having submitted same 3. and 4. While the highway, or portion orporation must to rovide , the county cpair a reasonable alternative route for hrough traffic and a suitable by-road for their property by any other public road 5. The bridge in question may be
losed by the municipality, notwithstandIng that it has been travelled for 15 years. 3. H. Heide, a copy of of the Secretary, libum of the International Live Stock xposition, 1918, was received at this
fice. It is an exceptionally attractive lraning attention to of the Exposition,
many educaiomal Teatures which were put on, and gives a review of the various
of live stock in the rifg, together
It Whe placings. It is a beautifully ared in the various classes. All inhi.) teir interest to have a copy of this luark in their library. The book may be
secural from the Secretary for the small
sumn of 5 ) cents


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Fall pigs, both sexes. Several WELDWOOD FARM, Farmer's Advocate Mitchell Ontario
 Whites we have sows all ages. including severa
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Big Type chester Whites - In our fifth im-
 Dion boar, Calloway Edd. We are now offering
bred sows April boars and weanling pigs. JOHNN
ANNESER, Tilbury, Ont. BERKSHIRES

ADAM THOMPSON, R.R. No. 1, Stratford, Ont
CREDIT GRANGE FARM. Tho Bere Station, Me. Mellen

TAMWORTHS
Boarr ready for servicic a chiciee tot to select from
also young sows bred for foping farrow. Write john w. Todd, R.r. No. 1, Corinth, Ont.

INVERUGIE TAMWORTHS
Barrs ready for servicee young ouwy bred for fall
farow; extra fne lot of litule ounfi jute ready to
Leslie Hadden, Peflerlaw, Ont. R. R. No. 2
Sunnyside Cheoter Whitee and Doraeto. In
Chester Whites both exee, any ase, bred from our



\section*{Lakeview Yorkshires}
 prize-winners
JOHN DUCK
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\section*{}

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\section*{Our School Department.}

Points of a Good Hen It will not be very long before the School Fair will be held, and then it will
be necessary to exhibit the chickens that have been raised during the summer
from eggs supplied by the Agricultural from eggs supplied by the Agricultural Representative. In some townships the boys and girls have to exhibit their whole
flock, and, in addition, pick out the best pullet and best cockerel for separate classes. At the school fairs all the chickens are judged according to their utility value, that is to say, according to their usefulness for egg production when they are fully grown. he accompanying picture shows a rooster with the various
points of a chiclen marked. These points, however, refer mostly to the essential when judging only according to utility value.

\section*{6\%}


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The Points of a Fowl.
In the latter case, vigor is one of the
most essential points to consider, since a bird must be vigorous in order to produce
eggs and meat economically. A vigorous eggs and meat economically. A vigorous
bird will be able to turn its feed into eggs and meat more cheaply than a weak birrd, and will, therefore, be more profitable.
The head is a good indication of vigor the eyes should be bright and active, In pullets and cockerels considerable red color will be seen on the side of the
shanks, and the cockerels will be anxious shanks, and the cockerels wof be anxious
to crow as loudly and as often as they head itself should be full at the side of the face, and the eyes prominent.
Constitution, of course, is something like vigor, and it means ability to stand
up and do well under trying conditions. To have constitution a bird must have a
strong body, with a full breast strong oody, whth a full breast, a strong
back, and other parts of the body in proportion. A good breast is also valu
able for meat production. The shape the body should be neat, and the crop
should be full, showing that the bird is should be full, showing that the bird is a
good feeder. The bones of the legs should The bone running along the bottom either side of the vent are the p, and o These should be wide apart and not thick or coarse. The distance, too, between
the pin-bones and the keel bone should be fairly wide in a pullet, so that as a
hen she will show indications of being able to lay a great many eggs. Of course,
these things are not so well marked in young is actually they should be in a hen
that ing a lot can be judged of the hen's ability from these
\(\qquad\)
\(\qquad\) that is a goon hard worker and will be
likely to lay eggs faithfully will show it
by her general appearance trast with the lazy, sleek-looking bird that does not work any harder than she
should. If two birds are equally good
in these useful when it comes to coloring and the barring of the feathers, of course the one that has
the best feathering should be shown, huit

Points of a Draft Horse.
Boys and girls ffequently hear their parents and neighbors discussing the selves or others. At fair time this dis
cussion is often more enlivened by anten more common and certain occasions. Many boys of sent age are able to pick out a good horse fool a poor one, but their judgment is usailly they an general appearances only, and choice are unable to give reasons for thei of a draft hor accompanying, illustration Agriculthorse is taken from Elementary used in Ontario schools re, which is the principal points of a horse shom which we shall say a few words so children will be better acquainted with an anima hey see and, in some cases, make-use of
A draft horse must, in the first place, pounds up and the larger he is the bete pounds up, and the larger he is the better re right. By conformation we mean the elation one part bears to another. Foo instance, a large horse with a long, weak back, a slim neck and straight pasterns on
shoulders would have poor conformation. The head of a draft horse should be faifly lean and not out of proportion with the the eyes, as this denotes intelligence, and the muzzle should be broad. Coming to the neck, this ought to be strong and shoulder and smoothly coupled with the portant part of a draft horse, for it is here hat all the power of the body is trans
mitted to the collar. The shoulder ought not to be straight or upright; ;a
certain degree of slope is required as indicated in the picture, for it means a stronger conformation, and the animal will be a better mover. The pastern, too
should have about the same slope as the shoulder so the action will be springy and less jarring on the feet, legs and body The arm must be large and muscular. and the fore-arm should be comparatively and strongly muscled at the upper part knee from the trone knee. Viewing the and it ought not to be tied in or restricted just below the joint Next beneath the knee comes the cannon bone which \({ }^{\text {itself }}\) from the knee to the fetlock which gives


The Points of a Horse.
As viewed from the side the cantion round cannon indicates a poor quality mentioned the of strength. We have emphasis must be placed on the slone straight found here. Horses which stand straight on their pasterns usually .have
bad feet after being used a few years, and when their feet fail them they yere not so
valuable. "No foot valuable. "No foot, no horse," is az
commion saying, so good horsemen are them wide at the top and behind, well supported at the heel and carried trie When have not the space to describe all
the points, but boys and cirlc intereste in the horse ought to study the illustration well and ought to study the illustra:mentioned animal in detail. We have how one should go about a study of the

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\section*{a Draft Horse.}
s frequently hear thein horses owned by th At fair time this di a more common an ree bit of excitement o
Many boys of sch Many boys of scho heir judgment is usu fil appearances only, appearances only,
to give reasons for thei
companying ill taken from "Elementio Horticulture" "Elementar schools ints of a horse abou a few words so children
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it of proportion with the hould be wide between enotes intelligence, and
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craight straight or upright; \({ }^{\text {slope }}\) picture, for it means ver. The the anima the same slope as the tion will be springy and e feet, legs and body e large and muscural scled at the upper par
he knee. Viewing fhe nt it should be broad be tied in or restricted nt. Next beneath tho ere are tendons runnilitg he fetlock which gives ,

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The Farmer's Advocate and PERSEVERE SUCCEED
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\section*{LIV.}

LONDON, ONTARIO, SEPTEMBER 11, 1919.

\section*{EDITORIAL.}

Silage will be none too plentiful during the coming winter, and it is all the more important to see that it is harvested in good condition and put away so that it will keep well.
The acreage of fall wheat is promising. Good yields are more likely if nothing but good plump seed of standard varieties is used. Sow six pecks to the acre if the seed is good
In two months' time the newly organized record of performance work with poultry will have been begun. It is to be hoped that it wim have a speedy
- Soon the potato harvest will be on. Districts from which large quantities of spuds are marketed should which large quantities of spuds are marketed should already in exitence an organization that can take care of the crop.

It is to be hoped that better prices will be realized for export apples on the British markets than some have a good crop, but with high freight rates the price needs to be good too

Good live stock is fundamental to success in farming.
Thistis true to-day as never before. The high cost of feed and labor makes imperative the use of animals that will give the me
never wins out here.

The Prince of Wales has certaizly endeared himself to all with whom he has come in contact so far during his visit to Canada. It is only natural that a democratic country should soon learn to appreciate a democratic young prince.
Let us all hope that the coming autumn weather will be favorable for farm work. Farmers of Eastern
Ontario in particular will retain lasting memories of the Ontario in particular will retain lasting memories of the
unfavorable seasons that have followed one another unfavorable seasons that have
during the past twelve months.

Not long ago a good farmer accustamed to rearing
gcod horses said he gcod horses said he was going to stop it, as he hardly thought it paid him well enough. We should have more farmers raising good heavy horses instead of fewer.
There is good money in raising the heavy type that the market demands.

There are plenty of people who are willing to live on the products of the farm, but too few who want
to live on the farm itself. Is it too much to hope that the high cost of living will drive them to the land peaceably? Eventually they must come, and why not do without undue disturbance?

The Dominion Live Stock Commissioner is now hensive knowledge of European live stock conditions and requirements. The more knowledge of this kind able to meet the requirements of the export market.

The House of Commons is again in session at Ottawa,
and an editor of "The Farmer's Advocate" will follow the proceedings as during the last session. The present
session promises to be a short one if members will get down to business and endeavor to earn their second
sessional indemnity. Some members would earn it were it twice as large; others could not earn it were it
cut in two.

Ontario's Dairy Industry.
The old idea that a farm with its family of hard workers and its crops and live stock is a unit by itself,
without dependence upon the outside world for succest, is fast losing ground. Originally, independence was the watchword of the farmer, but this was forced aside and interdependence among neighbors took its place, Now, dependence upon the outside world is an established fact, as regards a great many features of farm life, and in none more so than in the marketing of fafm products.

The dairy industry is a splendid example of the way in which farmers must depend upon the outside world. that move other industries, and the individual who engages in it must learn to feel that his work is but a small fraction of the effort necessary to assure the success of the industry as a whole; and, also, that unless the industry is on a successful footing he himself cannot succeed so well. This is the lesson that dairy farmers must learn. No longet can they feel independent of the actions of other dairymen, and the sooner each feels that he and his family, working industriously, are nevertheless only small parts of a great branch of national endeavor, so soon will dairying assume its proper importance and reward its workers with adequate returns.
Ontario's dairy industry viewed as a whole is of tremendous size. It is a big business enterprise, involving the production of products valued at about \(\$ 75,000,000\) yearly and, what is more to the point, every dairy farmer should consider himself a shareholder in this business. There are, according to figures supplied by the Dairy Branch of the Ontario Depart ment of Agricuture, 970 cheese factories in Ontario, using \(1,369,897,671\) pbunds of milk annually to make \(121,173,086\) pounds of cheese valued at \(\$ 30,293,271\) There are 160 factories making 28,714,352 pounds of creamery butter annuatly from \(736,336,800\) pounds of milk, and valued at \(\$ 14,557,189\); besides \(\$\) condenseries using \(157,800,515\) pounds of milk and 5 powder factories using \(56,203,145\) pounds. In addition, there is the market milk, ice cream, and dairy butter supply to be is valued ar \(\$ 25000000\) Truly this is sizable is valued at 225,0 odi in whish should dore to exercise dustry in whe his swect will in orercise No ordinary commercial enterprise of this magnitude could under any circumstances, be conducted along lines of individual action and success. Neither can the great dairy infustry make much further progress without some governing body acting with the full support and co-operation of the mass of milk producers. Organization is necessary, and it must not be forgotten that this costs money. If good men with a knowledge of the producer's problems are to work in his behalf, they must be paid and paid well. Not much should be necessary from each, but that little must be forthcoming ór the organization is doomed to failure. We have now in Canada a National Dairy Council, organized, but without funds unless either the producers, have to fight benefit, or the Government whom it will very obvious teasons the financing should certainly be done by producers and the manufacturers of dairy products. The industry it is fighting for should pro-
vide the National Dairy Council with the munitions vide the National Dairy
Provincial organizations are necessary too, for two principal reasons. They are necessary to co-ordinate the work of the national body and to attend to matters of a puraly provincial nature The present situatio
in Ontario with regard to the price of market milk one that only a strong provincial organization can cope with. The recent di appointment regarding the price
fixed for cheese by the British Ministry of Food should
serve to awaken every dairyman in Canada to the folly of poor organization. Never again should it be possible for any two or three men to practically buy up the whole Canadian export surplus of cheese without once consulting the producers. Prices for our milk are fixed by world demand, and every dairyman should rally freely to the organization that will aid him in securing a larger and better market.

\section*{A Farmer Writes a Book.}

It is seldom that one has the opportunity of reading a book written by a farmer. It is proverbial, in fact, that farmers seldom find time to read books, much less write them, a circumstance which makes the writing of bqoks by farmers as noteworthy as the examples are rare. Farmers have written books before, quite a few of them no doubt, but we always had the impression that most of the authors were not honest-to-goodness tillers of the soil; merely lovers of fresh air, whose enthusiasm had erupted, or scientificalky trained men who sought authorship as a means of raising themselves into the lap of luxury. For these reasons, thenful fore, we are god to and carefully-prepared book enter "orarion Taxation in Canada, and wh County, is a man fairly well known to readers of the farm press, and to airly wind the progress of agricultural Mose may feel inclined to view his ideas of economic reform as being too advanced, and even radical, but we teel safe in saying that few practical farmers, such as Mr. Good is, have given as prauch serious thought to the present condition of agriculture as himself. Few men, too, who realize the pregent inadequacy of reward from agricultural endeavor, could or would write so clearly and at the same time in such a moderate tone.

There are no tirades against anyone. Plain facts are made still plainer, the fundamental idea inspiring the writer being, pethaps, best suggested by the following sentence from an early chapter: "The revival of agriculture will consist of, and result in Better Farming, Better Business and Better Living but will depend primarily upon Better Returns for the effort expended. Four chapters contain such facts as it was possible o gather regarding the actual economic condition agriculture, and, naturally, we are not surprised
to note two chapters dealing largely with the tariff and its manner of increasing the profit of urban industries the expense of agriculture. One cannot, however, escape some surprise at the result produced by the cold logic of the author in his handling of available statistics. These two chapters alone are worth the most careful study. Mr. Good credits Canadian agriculture with an annual deficit of \(\$ 110,000,000\) during 1910-14, while Canadian manufacturing during the same period gained a surplus profit each year of \(\$ 260,000,000\). He also figures the total tax due to the tariff on Canadian manufacturers to be \(\$ 497,000,000\), of which agriculture bears one-half, or what amounts to about \(\$ 350\) per rural family, yearly. About one-quarter only of the total tax reaches the federal treasury, he believes, so that \(\$ 180,000,000\) yearly is diverted from agriculture to the pockets of the protected interests. Assuming all these figures to be approximately cortect, one can have all the joy of anticipation by merely subtracting this amount from the \(\$ 20,00,00\) pron to urban industries and adding it on to the \(\$ 110,000,000\) deficit of the farmer. The result is a substantial and rural and urban populations are about the same, equal profits must be just if farming is a business and not merely mode of existence.
Careful reading of this little book does much to```

