October
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# The Fordson Tractor As Canadian Farmers See It 



There is no better way to tell what the Fordson will do for you than to peat what other practical men have learned about it in actual service.

Out of 287 statements made by a few Fordson owners comes information that every farmer should heed.

Here are ten Fordson advantages pointed out-not by us-but by the owners of Fordson Tractors:

1. "It is a time-saver; faster than horse; best for rush season
2. Longer hours possible with a Fordson; capable of doing heavier
3. More economical than horse; no expense while idle; cheaper to
4. Hot weather and flies do not affect Fordson as they do a horse.
5. More freedom for farmer; no chores; no attention needed when idle; always ready for work.
6. Dispenses with labor
7. Does better work than horse; better and deeper plowing; better and more frequent cultivation.
8. Easier to handle than horse; boys and women can handle it.
9. Less shed space required than for horse
10. Saving in actual cost as compared with horse (no harness, etc.)

Does the Fordson actually replace horses on the Farm?
Here is the answer from the farmers themselves-not on a "test"-not on a day's work-but on actual month-in-and-month-out work on their own
farms:

$$
34
$$

34 farmers said it replaced two horses.
69 said it replaced 4 horses.
71 said it replaced 6 horses.
27 said it replaced 8 horses.
These men work farms of different acreages, but all were able to replace
On 480-acre farm Fordson replaced 12 horses!
J. W. M., of Major, Sask., (full name will be given on request) by an
investment of $\$ 750$ in a Fordson Tractor stopped an expense of $\$ 3,000$, the

Works i00-acre Farm Alone With Fordson
O. F. M., Dundas, Ont.-The Fordson is giving splendid satisfaction. am working the 100 acres alone because men are so splendid satisfaction. Fordson of great help in a lot of things where I would need $a^{\prime}$ man and an xtra team of horses.
Bert Kennedy, Agincourt, Ontario.-We used the Tractor on MasseyHarris "Blizzard"'Cuttirg Box, cutting corn and blowing it into a 31-foot ilo, and it handled the corn as fast as four men could get it into the box. The Tractor had plenty of power, running with throttle $11 / 4$ inches open. taken 10 hours to thresh same. We have used it on a grinder with 8 -inch plates, grinding wheat and oats, and it took them through at the rate of 42
bushels per hour.

Fast Work on This Ontario Farm.
C. E. S., Scotland, Ont.-Cultivated 36 acres in 12 hours. Harrowed 15 acres in 2 hours. Often used 6 sections. Used 10 -foot roller and three-
section harrow combined. Cut 85 acres grain on 8 -foot binder. Cut 25 section harrow combined. Cut 85 acres grain on 8 -foot binder. Cut 25
acres oats in 15 hours.

## Safer Than a Team-Does Everything.

E. C. G., St. Themas, Ont.-I have plowed, harrowed, rolled, spread manure, cut grain, cut corn, loaded hay, drawn hay to barns, in fact, most everything on the farm. My boys, 10, 12 and 13, have handled it on all and it is not very apt it is much safer than a team, as the flies never bother,

Ford Branch and Dealer Organization great Advantage to Frodson Owners.

To be able to get repair parts for any machine, and get them quickly The Ford Compan importace to the farmer. It is always a convenience. The rors in every Tractor. Parts are stocked at central points in every province. They are also held on hand by all Fordson Dealers, and nearly all Ford dealers are Fordson dealers. Any Fordson dealer can obtain parts very promptly. When we asked Fordson owners about this point, 136 said that they had not the slightest difficulty in getting parts while 49 replied that they
had never required any repairs. Complete information about the Fordson Tractor may be had at any Ford Branch from Fordson Dealers, or by writthat is giving such thorough satisfaction in actual service in Canada.

Ford Motor Company of Canada, Ltd., Ford, Ont.


The New Overland 4 With Three-Point Cantilever Springs, the Greatest Improvement in Riding Comfort Since Pneumatic Tires
THIS new Overland 4 has a spring base of 130 inches-yet its wheel It is a brand new type of car with an entirely new standard of riding comfort.
The springs are Three-Point Cant The springs are Three-Point Can:
tilever Springs of Chrome Vanadium
Steel

They give the Overland 4, with its riding-comfort and road-steadiness
forme formerly con fined to heavy, expensive cars of long wheelbase.
The Three:Point Springs protect the
mechanism from mechanism from road injuries and prolong the life of the car.

Light weight befings great economy
of tires and gasoline. of tires and gasoline.
High quality materials and work-
manship are used in manship are used in Overland 4
throughout. Its equipment is ike that of expensive cars, complete from Auto-Lite Starting and Lighting to its Auto-Lite Starting and Lighting to its
Demountable Rims.

Ask the Overland/dealer to tho you this new motor car which han let him explain than 250,000 mules Three-Point Cantilever Springs, thenive Select rough roads that you formel dreaded to ride over and see what it
means to ride in Overland 4 .


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of Hallam's Paste Animal Bait Enough for 2 or 3 sets-attracts all flesh
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Also Hallam's Trappers to carry.




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In time andlaborsaved-in increased production-in work done No matter what size your farm you need a pasoline engine and a good gasoline engine. Toronto Farm Engines are specially designed for hard farm service-strong, simple in operation, effiall the machinery around the farmesene or gasoline. Operate You should have a Toronto Grain too. Both are money-makers, Both Grinder and a Toronto Saw, Feto out more about effective Toronto Farm Machinery Sent free on requit.
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## IORONTO



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## The Why? of Another Victory Loan

WHEN, on the morning of November 11th, 1918, the gyns were hushed and glad tidinge flazhed acrose the world, there fol lowed with the Nation's Prayer of Thankegiving one yearn ing query, which found echo in the faster-beating hearts of wives, mothers, fathers, brothers, sisters and sweethearts.
THAT query wee, "How soon will our boy be home?"
AD, from Frence and Flandere, from Italy and Egypt, from Pales "Hine and from far-off Siberia, there came an answering echo, "How soon, how soon, may we go home?"
ANADA caught the spirit of these longings, and at once resolved to satisfy them.
Tr was an appalling task. Shipping was tragically scarce. Th composition of the Army of Occupation had not then been settled And other parts of the Empire as well as Canada were looking for

THE problem was this. The half-million men that Canada had overseas had taken more than four years to transport to the field of battle.

O bring them home in a few months was a gigantic undertaking -one to tax all Canada's ingenuity and resources.

CANADA solved the problem, but it meant crowding into a fow short months, an expense for demobilization which it was im. possible to foresee

HEN, too, besides the sentimental aspect of the necessity for bringing the men home quickly, the economic side could not be overlooked

THAT was, to transform efficiently and speedily the nation's army of fighters into a national army of workers.

NEED DIVIDES ITSELF IN TWO PARTS
The answer to the question "Why does Canada reed another Victory Loan?" divides itself into two parts.
(a) To finish paying the expenses of demobil lization, and the obligations we still owe to our
(b) To provide national working capital.

## OBLIGATIONS TO SOLDIERS.

The obligations to soldiers include
That already incurred cost of bringing home Thoops from overseas.
The payment of all soldiers still undemobilized This are still in hospital and whick and wounded main on the Army payroll till discharged.
The upkeep of hospitals, and their medical and hursing staffs, until the need for them is ended. These three items alone will use up at leas
$\$ 200,000,000$ of the Victory Loan 1919 .

## GRATUITIES

There is also the gratuity which has been authorized, and has been and is being paid to assist

soldiers to tide over the period between discharge | sodiers to tide over the period between discharge |
| :--- |
| and their re-adjustment to civil life. For this | purpose alone, $\$ 61,000,000$ must be provided out f the Victory Loan 1919, in addition to the Victory Loan 1918.

LAND SETTLEMENT
Furthermore, soldiers who desire to become farm ers may, under the Soldiers' Land Settlement Act, land, stock money by Canada with which to purchase vanced will be paid back; meantime each so adsecured by a first mortgage. Up to August 15th terms soldiers had applied for land under the terms of this Act; and 22,281 applications had applicant approved and the qualifications of the year requires $\$ 24,000,000$

## VOCATIONAL TRAINING

For this work which, with the Vocational Training and Soldiers' Service Departments, embraces Civil Re-establishment, an appropriation of $\$ 57$ 000,000 is necessary.
These national
They will be accepted readily by are war expenses. gives thought to the task which Canada faced following the Armistice, and to the success with
which she has met it. which she has met it.

NATIONAL WORKING CAPITAL
Canada needs national working capital, so that she may be able to sell on credit to Great Britain fisheries, mines and proctocts of our farms, forests,

You may ask, "Why sell to them if they can't pay cash?" The answer is, "Their orders are absolutely essential to the continuance of our agricultural and industrial prosperity.'
The magnitude of these orders and the amolunt of success of the Victory Loan 1919.

THE "WHY" OF CREDIT LOANS.
Farmers and manufacturers (and that includes the workers on these orders) must be paid cash for their products. Therefore, Canada must borrow money from her citizens to give credit, temporarily, money will pass out of Can Allies. Actually, no If Canada does not gioe cred woill; and they will get the trade, and have the employment that should be ours, to distribute amongst their workers. And remember, we absoIf we don't finance them business will feel the depression, employment will not be as plentiful, and conditions everywhere will be adversely affected.

POOR TRANSPORTATION
Money must also be available to carry on the nation's shipbuilding programme, and other transportation development work. For loans to Provincial Housing Com who are building moderate priced houses. These, then, are some of the things for which the position of a great wrading capital. She is in citizens who buy Victory Bonds are the sharecitizens
holders.

Those who give thought to our outstanding obligations to soldiers, and to our need for national working capital, cannot fail to be impressed with the absolute necessity for the

## Victory Loan 1919

"Every Dollar Spent in Canada"
ng into a few ch it was im.
necessity foz e could not be

# The Farmer's Advocate and PERSEVERE SUCCEED Home Magazine <br> ESTABLISHED 1866 

## EDITORIAL.

Don't forget the next Vietory Loan.
Think twice before you dispose of a good brood sow.
Regularity is one of the fundamentals of good feeding; start the season right.

This is no time for partisanship. Forget the party and voté for the best man.

October is a good month for plowing. Don't put off till spring what can be done this fall.

The political anvil in Ontario is now red hot, and sparks are flying in all directions. Fortunately the contest will soon be over.

There seems to be some doubt in-Ontario as to which is the temperance party. Fortunately, the Referendum Ballot is distinct from both

At last we are learning that it is gocd citizenship to have an interest in whose name goes on the ballot as well as to mark the ballot on election day.

It seems exceedingly ridiculous that a Board should be necessary to keep down the price of farm produce. Circumstances, economic and otherwise, have always kept it far too low

Weak markets at this time should not be allowed to influence farmers into a wholesale disposal of their live stock. It is easier to get out of than get into live stock. Stay with the game.

When the Board of Commercestarts in to limit the price of farm produce they should not cease until they run the whole gamut of machinery, feed, labor and the many other factors contributing to the cost of production

History is repeating itself this fall in the number of good brood sows going to the shambles. Ever in the past such action preceded a shortage of hogs and high prices. History will repeat itself again, and inside of a year many will regret the sale of their breeding stock.

It is given us the privilege to live in the most momen tous days of the world's history. Never were the possibilities greater, never were the responsibilitie heavier. Are we going to prove ourselves of such calibre as to meet civilization's demands and mar still further progress.

If it is necessary to sell some cattle this fall that is breeding stuff, then sell the culls. Don't let the bes stuff go because you are offered more money for it It will be worth as much to you for breeding purposes as to the other fellow. You may depend upon it that he is buying your best stuff cheap.

Across the line, in the United States, the Holstein Friesian Association has a scandal on its hands over unscrupulous methods used to deceive inspectors who are supervising official milk tests. There is only one o Holstein woived, but the position of chese men in the hade by the and the number of tests that have bee made by them makes the matter of no ordinary im portance. It indicates that the men engaged in breed ing pure-bred cattle must place about the official mil and butter-fat tests such safeguards that will. mak these tests irreproachable.

A Training For Soldier Farmers.
It is the people rather than the Government who will ultimately re-establish the soldier in civilian life. The Soldier Settlement Board is doing good work, but without the sympathetic support of employers and civilians at large this Government organization would be terribly ahandicapped. The Board has placed thousands of returned men on land where they are making a noble effort to establish a home and acquire property of their own. There are some, however, property of their own. There are some, however, who have made application that are not sumiciently equipped to take up land and obligate thermselves for large amounts or money and experience, There is no better place to obtain this experience than wis on, these of these apprentices they will be rendering a slight service in return for the sacrifice which has been already made by many soldiers. Unfortunately, the majority of farmers have been obliged to adapt themselves and their operations to a one-man system of farming, and after the transformation has been made and the worst ver they will feel some reluctance toward engaging men who, in a short time, will be launching out for themselves: However, the man who has a desire to learn and who contemplates putting into practice the methods which govern his work ought to be a satisfactory helper and an apt student who will take an interest in his employer's business. Others, of course, will find the life and work uncongenial; every one will not be a success, but many farmers will be in a position to give them a. "try-out and, at the same time, help in the re-establishment of the returned man.

## Prevent Fire Losses.

A forest is not made in less than half a century, but the time required for fire to destroy it is only a matter of hours. A house and home, in many cases, represents the efforts of a life-time for an honest toiling couple, but in a brief period of time, indicated even by minutes, it may be reduced to a smouldering mass of embers. Property and life alike melt away before the demon fire, and the handiwork of man, and nature are only food for the hungry flame. Every day in the year should be Fire Prevention Day, but so far public sentiment seems to justify the setting aside of only one day out of 365 for the purpose of awakening a keen interest in fire prevention and urging caution on the part of citizens at large. While October 19 is the date set for everyone to give particular attention to the removal of anything that might create or feed a flame and occasion for bringing fire prevention before the public mind, it seems extremely essential that the danger should be constantly guarded against, for fire breaks out when least expected, and the consequences are always bad enough

Owing to the nature of farm buildings and their contents the farmer is perhaps more subject to fire losses than any other clase of property ownere. More than that, the facilities for fighting fire on the farm are few and meagre. Lightning and lantern have been responsible for innumerable conflagrations; sparks at threshing or silo filling time have started many a blaze; matches in the hands of children have been the means of starting serious fires, and since the advent of the gasoline engine not a few fires could be traced, no doubt, to oily rags thrown carelessly into a corner As a rule, farmers are cautious in regard to fire; never theless, prevention should receive more emphasis than it does. Only rarely is an effective fire extinguisher to be found around farm buildings. Several extinguish ers located at different spots about the premises would not cost a great deal, and yet if kept in convenien places and always ready they would prevent a blaze developing into a conflagration. Lightning rods, too
would save many buildings which are annually destroyed by electrical storms. It is seldom, indeed, that a building, properly rodded, is struck by lightning. Oily rags and waste of-this kind ought to be destrayed at onee or kept in a safe metal container. Machinery is becoming more common about farm buildinge, and the fire danger is increasing on this account. Anothercsafe practice is to absolutely forbid smoking in the barn or stable, and make the rule apply to visitors who are sometimes careless in this regard. Keep matche away from children or irresponsible persons, and have a water supply available that will extinguish a small blaze at least. Prevention is the onfy practical miearis of fighting fire on the farm and should be constantly practiced. Insurance, however, should not be neglected The risk is too great for the individual to carry alone.

## An Educational Conference.

On October 20 to 22 there is being held in Wimipeg a National Educational Conference. It is Dominion wide; it is for all classes and for all individuals who have an interest in developing a higher type of citizen-
ship. Professional educationalists from ship. Professional educatonalists from all provinces and from the United States will be in attendance. What we would like to see is a still greater attendance
of non-professional educationalists, men and women interested not in education for education's sake but for the purpose of developing a better citizenship, through the keener intellects that may be the outgrowth of a better educational system.

Times and ideas have changed wonderfully since the stern old schdolmaster crammed Latin and Greek into the unwilling youth. One's education is not measured now by the knowledge he may have of the dead languages, but by his acquaintance with living things. : Education for education's sake is a beautiful thing but unpractical and inconsequential. A higher, nobler aim is a life of usefulness afd service to mankipd, and only with this object in view can our educationalists prepare a course that will meet modern requirements. The aesthetic should not be submerged or over-shadowed by too much materiatism; there should be a blending of the two in the proper proportions to make for citizenship of the highest type. Rural schools and rural education is the big problem before the country to-day. Not that country folk are backward in this regard or country children less apt, but in order to give the rural children equal advantages with urban pupils there must be some improvement in the course and the facilities for teaching. This subject should engage the facilities of the Conference and rural educationat ttention. the Confere organizations should transmit their ideas to the representatives who will convene on that occasion-

## Live Stock and Dairy Councils.

As the majority of stocknien and dairymen are already aware, we have two National Councils which were conceived for the purpose of fostering the livestock industry and the dairy industry of Canada. It is during the winter that impetus is given to such organizations, and their future, to a very large extent depends upon the attitude adopted toward them by stockmen and dairymen during the next six months Lukewarmness will kill them both; enthusiasm and moral, as well as some financial support, will make them strong and potent factors in the development of the agricultural industry.

The National Dairy Council has several accomplish ments to its credit, and is calling an annual meeting at Ottawa, on October 14, to outline a more progressive program and discues ways and means of financing the projects in mind. The National Dairy Council is stil young, but it must soon begin a campaign to educate the consuming public regarding the value of milk and

## The Farmer's Advocate

 and Home Magazine.the leading agriculturat journal in the

## TuE wurvorilighed weeky by $\begin{aligned} & \text { POMPINY (Limited). }\end{aligned}$ <br> Joun WELD, Menage Agenta for "The Farmerol. Advocite,and Home Journal,"

1. THE Farmer's adocate and home magazine












2. Wadrem INTTE FARMERS to mite ue on any americultural






LLimited) Lanad
milk products. The Council should invade the towns and cities with advertisements, and an exhibit of dairy products similar in character to that erected by the Provincial Dairy Branch at the last Canadian National. Literature prepared by the Council ought to find its way into urban homes where it would enlighten people
as to the food value of dairy products, and how as to the food value of dairy products, and how a more
generous consumption of them would mean household economy.
The Canadian National Live-Stock Council has had a more troubled career. It sprang into being with falir promise of a life of usefulness, but exception was taken to the way in which it was organized, with the result nothing has been heard of it at the annual meetings last February seemingly gave in little thought, the eastern representation on the Council does not include the best men in this part of Canada its President Agriculture. The very fact that two prominent members of the Council, Dr. S. F. Tolmie and Dr. J. G Rutherford, have been elevated to important public these grounds alone it cannot appeal to the stockmen at their next annual meeting in Toronto. Of course an organization must have funds in order to make itself Dairy Council' and the Canadian Natione National Council have been hatidicapped. There is room for a live-stock council, and if the present organization cannot get under way it might as well relinquish all
rights to the field and make room for another.
'What Shall We Hae to Drink? Like maist, everybody else that. I've seen lately,
hae been takin' mair or less interest in the scrap that's hae been takin' mair or less interest in the scrap that's
gaein on. juist noo between the twa parties in this
Province that hae developed a difference ort opinion on drink?"? (mportant question; "what shall we hae to Different men hae different thirsts an' what will
satisfy one chap , will only reminid the ither ${ }^{\circ}$. something
better. Force o' cirsumstances hae pit me in better. Force $o^{\prime}$ ' cirsumstances hae pit me in in the posthition
$o^{\prime}$ not bein' able to sympathize to ony great extent
wi' the mon that has symen O. not bein able to sympathize to ony great extent
wi 'he mon that has acquired the thirst that canna be
drowned oot wi' onything short o' a gallon or so drowned oot wi' onything short o' a gallon or so o' the
real Scotch extract that oor auld ancestors used to be
takin, to keep off the bloes an' pit them in the best trim for fightin'. But, gin I dinna inherit an inclination
to be drinkin' onything stronger than the black tea that the auld wumman mal's sometimes, still I I hae always had an interest in the subject $o^{\prime}$, drinkin' in general an' if we hae the time there might not be ony harm in
lookin' intae the matter an' seein' how this custom on lookin' intae the matter an'
drinkin ' got started, onway

Aboot the first case that we hae on record $\mathrm{o}^{\prime}$ a mon
in' mair than wis guid for him in the way $0^{\prime}$ drink takin' mair than wis suid for him in the way o' drink is the story $o^{\prime}$ auld Noah tauld in the Bible. It seems
that pretty nearly the first thing that Noah did after that pretty nearly the first thing that Noah did after
gettin oot o ' the ark wis to plant a vine-yard. Na doot
he had seen see muclle he had seen sae muckle water while the flod wis on a wee drap o' grape-juice an' see how that wad go Or maybe gettin' on to dry territory again had the same effect on him that it seems to hae on some o' his de-
scendants, doon to this vera day. It pits ye in the notion, a'richt,
But they say that there is twa sides to ony question tp for the freedom an' liberty that goes wi' drinkin' that one thinks is guid for him, or all he can hauld he the matter old that believe that hard drinkin' had seyer that
 onybody bein thailed by drinkin, but of coorse I've one o' these "liberty" advocates an' there's plenty like him. There was a time when I used to obe tallin' that be fence ' in like a coo in a pasture when they hae to she may get intae the corn-field an eat mair than guid for her," I used to-say, "A mon is supposed to hae reason an' judgement an he should hae freedom to erercise an' $^{\prime}$ develop these qualities gin they are ever
to be $o^{\prime}$ ony service to him. When ko be o temptation awa ${ }^{\text {him }}$, Wrom mankind and and every
impossible for him to do makin' it juist as impossible for im to dae tight. - There's na backbone developed that way," says I.
But as $I$ said, there's twa sides to ilka story an' I got
the ither side on' his one. I had been all taken up wil the man in the case ane. what might be the best in the bairns. It never occurred to me that mife an' the ought to hae a chance for the best development o, they characters, as weel as the auld man. In fact, as it was a case ${ }^{\prime}$ four or five $o^{\prime}$ ' theni to one ${ }^{\circ}$ ' him, it struck me
that, perhaps, they had a right to be conseedered first. I that, perhaps, they had a right to be conseedered first.
couldna mak
'mysel ' believe that a drinkin' father an husband had a tendency to elevate the moral tone o o the family circle, sae, ein thit were the case, he was the kind
0 ' man that needed to be taken in hand $\circ^{\circ}$ man that needed to be taken in hand by society and his's habits regulated for the guid o' the country at large izations for the purpose o, peopie' began forming organ problem o, how to handle the chap that drank his wages an' let his fomily dae the best they could wi' oot his help. It's over 'a hundred years noo since they
formed the first temperance society in the State ormed the first temperance society in the State o
New York, they tell me. An' one o the by-laws in the
竍 constitution went like this: "Any member of this as sociation who shall be convicted of intoxication shall be fined a quarter of a dollar, except such act of in
toxication shall take place on the Fown toxication shall take place on the Fourth of July, o any other reguarly appointed holiday
We canna deny that it looks as though whiskey had to go, discipline or no discipline for the individual. The I hae made up my mind to that. If the auld brozers are bound tae go ahead an' drink as lang as the supply
lasts we will have to let them dae it. But it's up to Iasts we will rave to let them dae it. But it's up to us
to look after the best interests o' the rising generation $\mathrm{an}^{\prime}$ the mithers in oor homes, by seeing that the supply soon rins oot
It was what a shoe dealer in thing I read the ither day It was what a shoe dealer in Toronto had said aboot Act had come intae force. He said that he sold more hibition cam' in than he did the night before Christmas which uplto this, had always been his harvest time. Sae what lads an' lassies hadr Naething else but that the wheir feet that they needed, an' all because their fathers had spent sae muckle $o^{\prime}$ the days' wages in drink. An' if they cam' short on shoes it's mair than likely that they dresses an' hats wad be as scarce as everythings an And when there is no money for these things there's,
never too much for bread an' meat an' milk. It's no? hard too size up the situation, The drink , has been non-
tirferin' wi' the bringin' up o ot beys an country and when we ken that what's the use orl botherin'
wi' ony mair arguments for or against the business ony mair arguments for or against the business.
The fact that one wee lad or lassie missed their ch for a useful a at happy life because we neglected to interspoil a few nights sleep on us, At ony rate I'll tak' a nuisance than it is the noo. An when the returnin' officer comes to count my ballot on the night, ${ }^{\text {a }}$, the
twentieth, I'm thinkin' ' he'll find Sandy Fraser's mark I pposite every "No" on the paper, an' it's little to what o' oor girls may be worth mair to to this country than all
the money that was ever invested in the business is juist noo makin' a last desterate attempt to to get on
its feet again. Gie the bairns their chance

## Nature's Diary

A. B, kivect, M,A.

Of the many animals which are peculiar to the There are many the and most typical is the Sto There are many kinds of Starfish on our cois
the Common Starfish, Forbe's Starfish, the S the Common Starfish, Forbe's Starfish, the Suns
the Leather Star, the Purple Star, etc., and all of the Leather Star, the Purple Star, etc., and all of th together with the Sea Urchins, Sea Cucumbers, Cri
and Sand-dollars, belong to a group known and Sand-dollars, belong to a group known as
Echinodermata, meaning spiny-skinned Echinodermata, meaning spiny-skinned animals group all the members of which are marine. group has many peculiar features, the most un being the water-vascular system, which is a systrio vessels containing water and which acts as a reapirat tion circulatory system as well as functioning in "tube A part of this system consists of the so-cal as suel-soit-walled tubes with of as suckers and which can be ext them
The Common Starfish of our Atlantic Coast is four fathoms. Its method to a depth of over two along on the tube-feet, and it is able to travel crawn softest silt or the smoothest hard surfaces with
while the suppleress of its body while the suppleness of its body enables it top
through very small crevices.


Young Starfish.
(Natural silec)
The food of the Starfish consists of mussels, ci oysters, sea-snails, barnacles, worms and small er on the lower side of the body. Small pieces are swallowed whole and the indigestible parts through the mouth. But since the mouth i (about $1 / 4$ inch in diameter in a good-sized specime and is surrounded by stiff calcareous plates, animals the stomach is turned inside out, about the animal until it is digested and whap In view of the fact that the main food of the consists of such shellish as oysters, clams and
which are protected by a hard shell, capable which are protected by a hard shell, capable of Deii
tightly closed, the manner in which the Starfit ceeded in getting at the soft parts within the sh was a mystery for a long time, and it is only in con paratively recent years that it has been solved. T
method is as follows: The Starfish settles dowm on t method is as follows: The Starfish settles down on shellish, applies the tube-feet of some of its arms to arms to the other valve, and pulls outward on the valve Now a clam, mussel or oyster can resist a very stron pull for a short time, but after a little while the ad muscle, which hoids the valves together becomes fatigu Starfish can exert a pull of 1350 o rrammes, and that pull of 900 grammes, if continued for half an hour sufficient to open a good-sized clam.
The eggs of the Starfish are deposited early in Jun The ripe eggs are are discharged from the female through minute por near the base of each arm, and are fertilized after extrusion. During the first stages of development there is little or no increase in size, and the egg rest course of a few hours sand, on the bottom. In the which have been taking place manifest themselves Waving cilia appear in certain areas on the surfaces of the egg, which now begins to rotate and soon rises from the bottom as a free-swimming larva. Soon after this the mouth and the stomach are developed, and th animal takes in food and grows. The growth is rapid,
and during the next three weeks the larva increases in diameter about fifty times. Meanwhile various Thternal organs and several long arms are developed The animal swims by means of the motile cilia whic appears as in Fig 1, the the larva is mature ping Starfish can be seen through the transparent body When the larva reaches this stage it attaches itself some object, such as the branch of a sea-weed, and rapid transformation takes place. The whole-supe and in a few hours there is left a complete, minorber starfish.
For about a month the young Starfish remain upo
the sea-weed, feeding upon the young of worms, snail etc. They then drop to the bottom and feed mainl upon young clams, oysters and mussels. They ar extremely voracious, and a young Starfish has bee They grow rapidly, as may be seen from Fig. which shows a young Starfish at the ages of six ani nine weeks from the egg. By the beginning of Noven
ber they average about two and a quarter inches i

## THE HORSE.

Line-Breeding Versus In-Breeding. Some breeders use the terms in-breeding and line-
meeding interchangeably: There-is considerable diference in the application of these two practices and while in-breeding is sometimes practiced in connection with
cattle, sheep, swine and poultry it is selddm that horsecattle, sheep, swine and poultry it is se.
men are so courageous as to resort to it.
Line-breeding means the mating of animals which belong to a certain strain, The Clydesdate stalion,
Baron's Pride, produced many notable sons and daughters. The majority of the ofspring of this amois horse
were related to one another through their sire only. Gradually a large family of Baron's Pride horses came into existence, and the second generation made it Woere not closely related Finally a strain of horses was produced which carried the blood of Baron's Pride, though no close in-breeding had been practiced. Baron's
Pride produced Baron O'Buchlyvie, and--this horse Pride produced Baron OBuchlyvie, and this horse and these horses in turn produced an enormous number rew solarge, and had so many branches, that it is pos sible to-day to have purely-bred Baren's Pride de-
scendents without having recurse to in-breeding. This scendents without having recourse to in-breding. This
is line-breeding. It is not so dangerous as in-breeding, and it permits a breeder to keep his animals pure in
blood In other words, the blood is kept constant, which reduces the probability of variations.
In-breeding means the breding of closely related animals, such as brother and sister, Very often a
sire is bred to his own daughter, this is in-breding. The latter union, however, is not so close or so dangerous as breeding brothers and sisters to each other. Occasionally an experienced breeder practices in-breeding to fix certain charecteristics, the union of closety res ted
blood naturally emphasizing the characteristics possessed by both parents. In-breeding, is therefore, very
useful, but it is dangerous because bad qualities are likewise transmitted in accentuated form. The famous Shorthorn bull, Foljambe, for instance, in the careful
hands of Charles Collings, sired the bull, Bolingbroke, hands of Charles Collings, sired the bull, Bolingbroke,
and the cow Phoenix. Bolingbroke and Phoenix were and the cow Phoenix. bulingboroke and Fhoente himself mated producing the
closely in-bred, was mated with his mother, producing
mate closely in-bred, was mated wron white was mated to this
the heifer Young Phoenix. Favorite
heifer, and the famous. bull Comet, which brought heifer, and the famous bull Comet, which brought
$\$ 5,000$ in 1810 , was the result of this classic example of in-breeding.

## Conditioning Horses.

Fattening horses and getting them into condition are two different things. "Fat" is often the very
opposite of "condition" for a well-conditioned horse opposite of condition for a weill-conditioned horse
has muscle, stamina and good wind. A horse which is fat only usually is found lacking in these three. In
the Live-Stock Journal is found the following short the Live-Stock Journal is found th
discussion of conditioning horses.
"Condition" in horses is not fat-far from it-it is hard, tough, elastic muscle which may be actively worked
without tiring the horse, without sweating, and withwithout tiring the horse, without sweating, and with
out exhaustion of the vital forces, unless the exercise is utterly excessive. A horse out of condition is exhausted
by a half mile or a mile trot, comes in puffing and breaks out in a sweat, while one in condition returns all the
fresher in appearance for having his blood stirred. What makes the difference? Proper feeding, good grooming and regular work or exercise, and enough of it. Ail exercise tires the muscles brought into play-a tired Tmuscle needs feeding. The. Feed for the muscle is
digested food. After any muscle has been taxed it is for some time in a condition to appropriate from the blood the proper elements to build itself up and increase its strength. When a horse is fed immediately before
labor the food remains undigested until labor ceases. labor the food remains undigested until labor ceases.
and then it is liable to do harm. All horsemen nnow that a horse should not have a feed of grain when warm or
until he has cooled off; yet, when they start a horse of until he has cooled off; yet, when they start a horse of food has time to digest he is liable to be injured by it After labor, as soon as a horse cools of and is rested, the blood, which the use of the muscles drew to the
extremities, returns and is ready to take active part in the work of digestion. Then is the time to feed.

To get a horse rapidly into condition, he should be well worked or exercised according to his strength; when
brought in, vigorously nubbed of dry, cool, and rested, fed. His feed should be then hay, when his appetite is sharpest, followed by grain in quantity gauged according to the work he does. Fat in quantity gauged according to the work he does. Fat
will sweat oft, muscle will not. A fat horse is liable to indigestion, sunstroke, cold, flatulence (colic) and eve so many other ills, which a horse in condtion is not
only free from, but if properly fed and deanel only free from, but if properly fed and cleaned and
worked, is not liable to get. It is usually poor economy worked, is not tiable to get. It is usually poor economy


Wells Lady Ray
Champion female Clydestale at the Hightind Show, Edinburght

## LIVE STOCK.

If all the live stock marketed was as good as the best the feeder's returns would be considerably greater. Aim lower ideal is not worthy of Canadian farmers.
In some prize lists of fall fairs we notice the word "Thoroughbred" used in connection with all classes of stock and Shorthorns are called "Durhams". Many meaning Shorthorns the word "Durbam" is obsolete and "Thoroughbred" applies to one breed of horses
only. A registered or pedigreed animal is termed a andy. A
oure-bred.

A tempting offer has been made for certain animals in the herd and the owner must decide whether to sell or hold. When considering the question it is well to
take into account the future of the herd. If the best things are sold how is the herd to compete with that o the purchase in the future. The constructive breeder able to him as to any one else and unless the price it
very high holds in order not to weaken his own herd.
From many centres a number of choice breeding sows are included in weekly shipments of hogs. This an uncertain hog market feeders cannot be seriously criticized for reducing the stock. However, the in-and outs in live stock seldom come out as well in the end
as the man who stays with the business through thick and thin. An old saying "when others run it is time to walk", might be applied to the live-stock business. When breeding stock is being disposed of in large numbers
the past has proven it to be a good time to go a little the past has proven
stronger into stock.

All high-priced stock does not have a show-ring winner for a dam but it usually has a sure outstanding individuality and good pedigrees. An Ontario breeder in a large class he Toronto for over two thousand dollars. The dam is a breedy little cow which wa picked up at less than ordinary grade prices because she


The Five Winners of the Aged Percheron Stallion Class, Toronto, 1919.

Was very thin at time of purchase. Not only has shi produced a heifer of renown but now has a bull cal later. While not a show cow herself she produce winning stock when mated with the bull of characte
and form. winning st,
and form.

## The Bacon Situation

The sudden drop of over $\$ 6$ in the price of hogs has caused no little concerin among farmiers generally. The price of feeds and lack of confidence in the future have sealed the fate of many a good brood sow which should be retained to produce feeding stock when conditions right themselves. The' whole disturbance ie unquestionably caused by the arrival in England of product which must be consumed at once, and the isstem of control that has been adopted for the winter has explained the situation, though not too clearly, in has explaining statement:
the following state
Ministry of beod to again regulate the marketing of the Ministry of Food to again regulate the marketing of位 product, reduces to a minimum the premium of from
ten to twenty shillings per cwt. over American hoom which Canada has been able to command under free trading, and subjects our markets to the decision of the
British Government to get bacon prices down to lower The London Grocer (England) early in Sep
made the followint comment on the bacon trepe
"This article is under complete official control at regulated prices to all sections of the trade. The market has not yet settled down to the new conditions
imposed, continued difficulties arising from the official arrangements, The situation is unsatisfactory by reason
of the heavy arrivals of American reaching this country, and the circumstance that the great bulk of the offerings require prompt handling. They consist almost, or which there is little requirement on the part of
buyers. No improvement in the demand can be auners. No until the offerings consist of more reliable
anticipated unity. which are mostly withheld from the marlet
quality quality, which are mostly withheld from the market,
only very small quantities of A class beinz offered An abundance of C class goods is being released, which. find little off-take from buyers, owing to the bad con-
dition. Some of the $B$ class bacon is fairly where the authorities have not been so is farticy good,
the grading, as the cold stores are filled uner dificult to find a home for all of the filled upals. and it is the lower terms on- which out-of-condition parcels are
offered, they mett with iltte repponse from ofiered, they meet with nittle response from buyers.
American advices as to movements on prices of live hogs
are very irregular. Very little Irish bacon is forthare very irregular. Very littele Irish bacon is forth-
coming, supplies being reduced to a minimum, and the
outlooke is not killings in Ireland being notified. All of the Danish bacon recently bought by the Government lias bien hipped to this country.
In regard to Liverpool, the paper mentioned comments thus: The position continues to be very unsat-
isfactory, the demand being market quite unaffected by the upward movemet the the other side. The Ministry are allocating only good up the better grades that will keep in store. There is a cortain amonem of refusing to allocate a in the trade as better grade poods. with those requroportion of the better, grade goods with those requiring immediate
disposition. The poorer stuff, although subject to allowances in prices, is proving very unacceptable to
wholesalers and retailers alike. The congestion docks and slow discharge of the the congestion at the the warm weather, has increased the existing dificiculties, but it is expected that matters will. rectify themselves
in a fw wwelo time and that the position will eraduall right itsolf. Wholesalers are no nowition will gradualy
their stocks to those retailer who wispose of their stocks to those retailers who were registered with them at the close of the previous control in March. The full maximum contro l prices are paid for every-
thing except bellies, for which les money is being
accepted. The maximum shires, 192s: (about 42 cents per pound) Collows: Wile-
 clear backs, 217 s , ; long clears, 207 s ; American bellies
and short clear backs, 106s. Irish bacon continues very difficult to obtain.
The Food Controller, has had his difficulties and misfortunes. Large stores of lacon wertulties and
to spoil even before the serious strike of trermitted took place, and for this he was severely criticized What has happened to the product that should have gone into immediate consumption it is impossible at large quantities must have spoiled, At any rate it appears that the control system is not popular with the
trade, and when conditions pernit there will trade, and when conditions permit there wuill, no doubt, be a swing back to open merchandizing. Evidence
seems to indicate that the Government control of food stuffs will not continue after the causes which make i necessary are removed; but, of courses, who one knowa
when that will be. when that will be.
this couintry durice of hogs may decline still further in reason for believing that next summer will see good prices and fair returns above cost of production. This
seems to be the safest interpretation for a stock see put on the situation, and experienced farfincrs agree
that when hogs are dropping is the proper time to
increase the breeding stock and get ready to meet a inceen demand which is sure to exist later on.

## Clean Up For Winter.

On the best regulated farms the stables,sheep and pig pens become untidy and somewhat out of repoit during the summer months, When stables are not in common use, there is a tendency to leave them to pretty much take care of themseives, If will not be long now before the stock will have to be housed at nights at least If repairs are not made before the stables are in use the may not be made during the winter. Although the fall is a busy season it is advisable to plan on a day or thro for puttints the stable itr order, and giving to a general cleaning. There are broken boards in the floor that are dangerous, some mangers are rotted out and the feed rack is out of order. Of course, the most permanent Anor is conncrete and many wee this moterial, but there are stables where the wood floor is in fair condition and will do for a few years yet by doing a little repairing Where the mangers have rotted it is well to put in concrete bottom. A load of gritty sand or fine gravel and a barrel of cement will put bottoms in a good number of mangers. Have the bottom slightly round ing so as to avoid corners in which feed may lodge and decay. Almost invariably some of the stanchions o tie chaine become broken during the summer and ther is no time like the present to fix them. When winte comes it usually does so with a rush and it is well to have everything in readiness.
If the light is not good an extra window or two may be put in, A mechanie is not needed to do this fiammer and pick and any handy man can set a window frame. Concrete may be used to fill in around th frame. Sunshine is a good disinfectant and plenty of it should be allowed to enter the stable. True some of the best herds the country has produced have been reared in low, dark stables, but, what might these herd hation. good many stables would be a lot lighter tha they usually are if the windows were cleaned occasional ly. Tet in the light.
It is rather uncanny how cobwebs will collect in
corners and on joists and windows during the cummer corners and on joists and windows during the summer over the entire stable and then bring the spray pump and disinfectant into action. There is nothing lik a coating of whitewash to freshen up a stable, but it is other disinfectant to destroy vermin. The follow or other disinfectant to destroy vermin. The followin a half bushel of lime and strain it through a fine sieve Then add a peck of salt previously disolved in warm water, three pounds of ground rice boiled to a thi paste and stirred in boiling hot. One half pound o powdered Spanish whiting and a pound of glue that ha
been disolved over a slow fire and add five gallons o hot w ter to the mixture. This material may stan if for a few days b fore using but should be applied hot This wash is suitable for either inside or outside work Using a spray pump the wash can be driven into the cracks and crevices giving the entire surface of stable in time for the stabling of the stock when the mercury drops and the cold winds come out of the North.

What is a Pedigree Worth? A pedigree is an official record of the breeding of a
 but we shall begin this article with it, nevertheless
and we shall alo close this discususion with
it.
Every and we shal also close ehis discussion with it. Every unfortunately, knows how to appraise one correctly Throughout Canada, a, great many farmers are
joining, for the first time, the swelling ranks of the breeders of pure-bred cattie, horseses sheep and swine Alarge number or these new recruts are not famiiar do not know how to place a valuation on the pedigree of animal which they purchase it it it dist peaitree
oth intersts of the the interests of the pure-bred stock-b-reeding industry that every breeder should know how to measure the the
worth of an animal's pedigre. The possesion of this
 stock kand would gradually reduce the number of inferior animals.
The extended pedigree is the most illuminating record of an annal's breeding. It shows the entiric
ancestry of the animal, and by referring to herd books ancestry of the animal, and by referring to herd books,
or other sources, one may learn the breet ding of these ancestors.
arcompanying pedigree illustrates this. The
of all the animals is this pedires should be be number of all the ardas in this pedigree should be
 because the entirie ancestry of Surbiton Steresting petigree A breder familiar with Shorthorn families and how.
show-ring and breeding records would place a valuation show-ring and breeding records would place a valuation
ontion edigree arter
perienceed Shorthorn breecer conald easility find out inex
about the bulls and females mentioned. He would bull, with the blood of some historic bulls and females coursing through his veins. Further investigation on his dam's side from such families as the Lavenders on his dam's sine from such families as the Lavenders and in tooking at the dam's breeding, he would see that she was the product of a Bate's
Adation, reinforced by Scotch-bred tops.
But some breeders would completely misread this pedigree. The prospective buyer of this bull-if the be shown the name of the great sire Whitehall Sultan. "This bull is a descendant of the great Whitehall Sultan," the assiduous seller would say. "Whitehall Sultan was
one of the greatest sires ever produced, and here's a bull one of the greatest sires ever produced, and here's a bull
descended from him directly. He is worth $\$ 500$ more descended from him directly, He is worth $\$ 500$ more relate, more than one beginner in the business of breeding pure-bred cattle succumbs to this selling talk. The ancestry of an animal is potent, but this potency devhose scientific deductions are accepted by all intelligent breeders, labored for years to determine how much infuence the various ancestors of an animal exert-on
the individuality of that animal. The celebrated scientist Galton, after years of investigation and experimentation, laid down the law of ancestral heredity of an animal contribute between them imediate parents characteristics of their son or daughter. An animal therefore, gets approximately or daughte-quarter of his characteristics from his sire, and another quarter, approxi-
mately, of his characteristics from his dam. An animal mets another quarter of his characteristics from. his grand-parents, and as there are four grand-parents, he gets approximately one-sixteenth of his characteristics from each of his four grand-parents. He gets oneand as there are eight grand-parents he gets, approximately one-sixty-fourth of his characteristics from each. From his great-great-grand-parents he gets
one-sixteenth of his characteristics, and as there are sixteen great-great-grand-parents, he gets, approxi-
mately, one-third of one per cent of his characteris tics from each great-great-grand-parent-an almost inconsequential grertage. This law, of course, is varied by the individual prepotency of the animals appearing in the different generations, but if we accept that an animal's characteristics are determined instantly by its parents and grand-parents. Galton's law also indicates the value of good breeding. A bad top cross would, according to its dictations, spoil an otherwise good pedigree -and every intelligent breeder knows Then what, is signified by the oft-repeated "famity jargon? Just this: An animal may be descended from a certain family. The remote ancestors of this family may have been illustrious, and careful breeding nay have kept the family pure and vigorous. The family ning high honors in the show-rings. If an animal belongs to this family and if its parents and grandparents are show-ring celebrities, one may be tolerably certain that it belongs to a good family. On the other hand, a bull may be descendant, through one of his
parents, of a noted family. But his connection family may be away hack in the fourth generation and the second and third generations may be undermined with the blood or inferior animals. A family is good or bad according to the breeding and show-ring records bers. The whole history of animal breeding bate memthe truth of this assertion. New families are founded every once in a while, and these families are good families if the members of them are outstanding individuals. created many fancthe Darwin of the Shorthorn world, the members of them were good individuals. Bates
created a family, too and the most fashionable fatini onger fashionable when the individual members o beginner deterimate in individual excellence. and selects an animal whose parentily nomencla are notable in the breeding yard-and in the sho anen he is dealing with the family problem in the $n$ telligent manner possible. It is also the simples
method of estimating the real value of an animal
breeding. This
gree. The short pedigree, as every to the short abbreviated form of the extended pedigred hears little criticism of this form of presentigng info tion apropos an animal's breeding. Yet, an ani information. The short pedigree, as a rule la animat back through the dam to the importe and this imported dam usually provides, as Shorthorns, the family name. As a rule, too, the feria that provides the family rame has but a small influenic
on the animal carrying the pedigree. n the animal carrying the pedigree.
choicely bred built, whose extended pedigree is hictull reproduced. It would read as follows
 Fancy Gir! ...................... Crimson Ear Kintore ecelia's Sord Kintore The

The short extended pedigree mentions thirty ancestors pedigree shows the rich blood inherited by Surbito Sultan through his sire's side of the pedigree, It show a great array of celebrated bull-Sultan's Choice, Lavender Sultan, SuperbSultan, the great WhitehallSultan and mentions none of these-great bulls. The exterded pedigree would show instantly if any of the ances of Surbiton Sultan had been inbred; the short pedig gives no such information. There is too much ormation eliminated from the pedigree to make
Some men glorify pedigrees. Men have paid hug sums to buy fashionable pedigrees. Such men do not consider the individual excellence of the animal whic carries the pedigree, and it is safe to say that they d
not know either the practice or principles of anima breeding.
A pedigree is the record of an animal's breeding It can never be anything else, and the record may bo worthy of talking about, or it may be so bad that Thie paper a pedigree is printed with profit to himsel does not make the pedigree valuable. The pedigree made valuable or worthless by the animals whose names appear on it. If the animals are all good ones or il the first three generations are composed of meritorious
animals, the pedigree is worth having-if one owns the animals, the pedigree is worth having-if one owns the
bull, or cow that goes with it. "Like 'tends to beget like," "' is a breeding axiom as old as animal husbandry and a record of the breeding of good animals tells us hat this ancestry will produce good stock. Likewise a breeding record of poor animals tells us that such a
ancestry cannot help but produce poor animals, Keep ing these facts in mind, what more pathetic spectaci than an uninformed owner of a scalawag pure-bre proudly acclaiming the fact that his pedigreed mongrel Fhen be, or a Bumblebee. Or what is more fatuou than the pedigree linguist, who is forever linking up
modern degenerated pure-bred rubbish with celebrated ancestors, long since dead and buried. Truly, man celebrated old bulls and females have had their, reputa ions badly smirched because of their present-day fort econd cousins claiming kindred with them.

Find
ions thirty ancestor
seven. The extende inherited by Surbiten
he pedigree. It bhow he pedigree, It shor
jultan's Choice, Laven at WhitehallSultanany
The short pediere The short pedigree
bulls. The extenided red; the short pedigree red; the short pedig
edigree to mulach
ent sire. es. Such men do no fe to say that they d an animal's breeding. nd the record may b
nay be so bad that with profit to himsel on or the official sea
able, The pedigre i e animals whose eames
e all good ones or if mposed of meritoriou "Like 'tends owns th Like tends to bege
as animal husbandry good animals tells good stock. Likewise.
s tells us that such stells us that such an
poor animals, Kep. poor animals, Keep.
ore pathetic spectade
pala a scalawag pure-breer r what is more fatuou
is forever linking up ibbish with celebrati
buried. Truly, mar buried. Truly, many haye had their reputa heir present-day fort vith them.

Whitehall Sultaष
Sweet Sultan

## Get of E. P. Bẹauty's Prince.

Pàrturient Troubles in Cows.-Con Metritis or Inflammation of the Womb nflammation of the uterus or womb (metritis) may be limited to one or both of ene internal layers of the organ, or it may extend to the outer covering-the peritoneum, when it is known as "metro-peritonitis,
and produce certain symptoms, while the introduction and produce certain symptoms, whie the introauction
of septic matters into the blood, which is often a result of this inflammation, will give rise to symptoms of pyaemia (blood poisoning). The latter complication from the febrile indications which accompany it, is called "parturient fever.". There are many cases of with pyaemia, at least to any marked degree; but the symptoms of fever which accompany the former are generally more or less apparent, and it is often hard to
discover where septic infection has taken place, the high discover where septic infection has taken place, the high temperature and accelerated condition of the puse appear at an early stage of metritis.
Symptoms.-The symptoms may be apparent very
soon after birth, but seldom appear before the second or third day Gr, after the seventh or eighth day. After parturition the animal generally appears to
have quite recovered from the effects of the act, eats have quite recovered from the effects of the act, eals cares for her offspring, and there is nothing to indicate the presence of disturbance. The temperature of the rectum is about normal, except in cases where birth has
been difficult and the genital canal has been injured or roughly may be high. Well-marked increase of temperature is the first indication of the disease. At the commence ent of this rise in temperature, chere is well-marke igors (striving) which often takes place at night, hence care to move, appetite and rumination cease, the pulse is small, hard and frequent; secretion of mil decreases, and soon almost entirely ceases, the udder iminishes in size and becomes flacid; the respiration the hurried and shall, the moure hio and pasty, while the ears and horns are usually warm. The patient grinds her teeth, and shows symptoms of colicky pains, she may lie down, but seldom retains the recumbent position for any length of time, as the pressure distress. and discharge a fluid, at first serous, and either trans parent or having a yellow, chocolate or reddish tinge, hen it gradually becomes thicker and more abundant.
Manual exploration of the vagina discovers it to be hot Manual exploration of the vagina discovers it to be hot
and sensitive. Pressure upon the right side of the abdomen usually causes pain. Defecation is painful and the faeces are hard. After a time the patient may persist in lying, which is probably due to partial paralysis
of the hind quarters. The rumen is usually more or less distended with gas, and there are usually eructations of gas or even regurgitations.
Treatment.-As the disease, whether complicated or not, is always serious and generally rapid in progress hence prompt, rational and energetic treatment is

The vagina and womb should be well flushed with injectionter introduced by the use of a veterinarian or a couple of feet of soft rubber hose with a funne inserted at one end. When the latter is used, the fre end elevated and introduced into the womb, the funne visible wounds or wounds detectable by the hand when introduced into the canal should be dressed 3 time daily with 1 part carbolic acid to 20 parts sweet oil
After the uterus has been cleansed with warm water
about a gallon of a warm 1 per cent. solution of one of the coal-tar antiseptics or a solution of boracic acid
1 oz . to a quart of warm water should be injected into t daily. When pain is acute it should be combatted by the
administration of 2 drams of the solid extract of belladonna in a quart of warm water as a drench, as the symptoms indicate its use. Opium in any form should be avoided as it increases the tendency to constipation. Internal antiseptics should be given as 50 to 60 drops
of carbolic acid in a pint of cold water as a drench 3 of carbolic acid in a pint of cold water as a drench 3
times daily, or 6 to 8 drams of hyposulphite of soda times daily, or 6 to 8 drams of hyposulphite of soda
given in the same way. As there is always a tendency to constipation, a laxative of $11 / 2$ pints of raw linseed oil should be given as the condition of the bowels indicate. To reduce temperature the ad in trulte of quinine in dram doses usually gives good results. The ad-
ministration of aconite for this purpose should be minoided, especially where the pulse becomes rather weak. In cases where the appetite is nearly or totally lost, the strength of the patient should be kept up by drenching with boiled flax-seed or oatmeal gruel. When the patient shows well-marked weakness she should
be given stimulants as 2 to 3 oz . sweet spifits of nitire or aromated spirits of ammonia, or a cupful of whisky or other liquor every 5 or 6 hours. When the patient shows symptoms of recovery she should be given tonics, as a heaped tablesponful of equal parts of powdered carbonate of soda 3 times daily, and be fed on good feed and kept as comfortable as possible.

Vaginitis.
Vaginitis or inflammation of the vagina occurs as an accompaniment of infiammation of the womb (metritis), but is frequently met with as a primary
disease, due to protracted and laborious delivery which necessitates manipulatory efforts, the use of instruments, etc., the passage of a very vuluminou
wound the lining membrane of the organ, The it tion, gangrene or mortification complicated with, marked. The lips and lining membrane of the vulva become more or less swollen, the latter being of a deep or brigh
red, brown or livid hue; there also may be patches o red, brown or livid hue; there also may be pache loca temperature of the vagina is generally greatly increased while, in the earlier stages its walls are usually dry and sometimes adhesive. Urination is generally painful and difficult, constipation is often present, and there is sometimes. well-marked itchiness in the region of the animal makes to rub the part. If the inflammation is severe and extensive the general temperature will br increased.
When 't
When the inflammation has existed, for two on
three days, the mucous secreted and expelled is greatly three days, the mucous secreted and expelled is greatly
increased in quantity. It is at first a serous limped fluid, sometimes streaked with blood; then it gradually becomes thicker and somewhat purulent, soling
tail, thighs and hocks, and sometimes becoming tail, thighs and hocks, and sometimes becoming so
acrid as to cause the falling out of the hair and excoriation acrid as to ca
of the skin.
Simple vaginits, of itself, is not a serious affection, and the inflammation often subsides spontaneously in the course of a few days, or readily yields to treat-
ment. In some cases, however, it assumes a trouble some, if not a serious character. When gangrene ensues there may be infective inflammation of the surrounding parts, and large portions of the serous membrane, or even the skin of the lips of the Tulva, may
slough, while the discharge is plentiful and fetid. slough, while the discharge is plentiful and fetid. ness, attention to diet, as feeding on laxative, easilydigested feed, and providing all the pure water the patient will drink, lalso injecting into the vagina 3 times daily a mild astringent and antiseptic as a solution
of sulphate of zinc 1 oz , to a quart of warm water. Of sulphate of zinc 1 oz , to a quart of warm water. gangrene, or ulceration, sloughing or even abrasions exist, disinfecting and antiseptic treatment must be given. The patient should be given 40 to 60 drops of the yagina flushed out as often with a 5 -per-cent, the vagina flushed out as, often with
solution of one of the coal-tar antiseptics.

Leucorrhoea or Whites.
Leucorrhoea is that condition in which there is a
(generally irregular) of a fuid usually of a discharge (generally irregular) of a fluid usually of a
white, glutinous and odorless character, from the vulya, or it may be purulent, muco-purulent or even
chocolate-colored and sour-smelling. It consists in chronic inflammation of the mucous membrane of the romb, and sometimes also of the vagina. The patient does not exhibit any wellmarked constitutional disturbance, The appetite, yield impaired, at least for a considerable time. The discharge is usually irregular, none may be noticed for
beveral days or even longer, and then a large quantity will escape, especially when the animal is lying, at other times there will be discharge of less quantities and more frequent when she is in motion or during micturition, while in pother cases the discharge is
more regular and in less quantities. In cases where more regular and in less quantities, In cases where the decrease is of long duration and the discharge
copious, there is more or less loss of appetite, condition, yield of milk, and general thriftiness. Symptoms of oestrum are often more frequent than normal, but coriception does not readily occur, and if it does occur,
there is a strong probability that its period of pregnancy there is a strong probability that its period of pregnancy
will not reach its full term. The mucous membrane of the genital canal is pale, relaxed and insensible in most cases, while in others it may be roughened by granulations. In rare cases the tissues lining the cana
become enlarged and hardened. become enlarged and hardened.
Treatment - When treatment is given in the eerly stages, cleanliness and injections of astringents, as in


Get of Gainford Marquis
Winners of the Shorthorn class-three, get d sire- at Toronto, for J. A. Watt, Elora, Ont.
cases of vaginitis, are usually effective. When it has tinue for month or a long time however (it may conobstinate, tedious and hard to treat. The uterus or vagina, or both if affected, should be thoroughly flushed out twice or three times daily with a warm, two-per-cent,
solution of one of the coal-tar antisentics. This can solution of one of the coal-tar antiseptics. This can pump, but a large syringe with a long nozzle may be
used, or about 3 feet of rubber hose with a funnel inserted into one end. The free end of the hose is passed into the womb, the other end elevated and the fluid
poured into the funnel, when it will gravitate into the
In addition to this the patient should be given internal antiseptics, as 6 drams of hyposulphite of
soda or 40 to 60 drops carbolic acid in a pint of cold water given as a drench 3 times daily, until the dissymptoms, tonics as a tablespoonful 3 times daily of enual parts powdered stulpheste of iront, gentian, zilg of
and nux vomica should be given, and she should be well fed

## Fall and Winter Sales.

it is customary for a large number of auction sles
to
be held during the fall and winter months some
 number of tive Stolte Aready this season a a considerable Planaing on tolding a a saule sometimber of breeders are Planning on holaring a sale sometime during the winter. a sale that the first impresion that tprospective purchas-
 which will be paid When an animl comese into the silee
ring man thin roush condition, it ivesa poon impresion,
and

 price will, as a rule, pay for feed and extra attention necese-
 bits stack in the market in poor condition
but what is his loss is the purchaser's gain.
Whether
the date of sale should be set a number of be sold, advance, and then every effort $t$ made to mate the animals appear to the best posibible advantage. This entails and training them to tead and and stand. When an animal is sa ill-mannered as to dray its attendant around the selering, and possibly maake a drive at some of the slearing pectators, the prosesectivive auc somes on the that the animal is vicious and he is not very particular Wether he buys or not, and certainly will not pay
forif price $A$ month or five weeks of good care and feeding wili mate a a vast difference in the theapearanance of the animal. However, it will pay to have more time devoted to the fitting, At some of the lare eprere timed in conditioning the animals; not a partince of care taken found on the bod, the horns are polished, and the hair is combed to oshow the animal to the bebst advantage high prites predominate at such sales, this being the case, will it not pay the breeder hotiding a small sale
of possibly, not specially
ashionably the bisk breeders in in the meethod of bring ing out his owny Conditioning and training count in the trade as wel as the pure-bred sale-ring, with the small herd as well as the large one.
sense rationon, it in plenty of time and feed a commonsense ration, it is not necessary nor advisable to pamper
the animals,. Besides the ordinary roushaze and coas grain grown on the farm, it is well to feed a little oil cake or cotton-sed as both these feeds help to tive the
animal a sleek appearance. Silaze or roots are eeccellent anima a a seek appearance. Silage or roots are excellent
feedd for all kinds of stock, and especially for fitting onimals. Roots are preferred to so silage by bome feeders
and
 silage also adds succulency to the ration, and is a valu
able feed for ruminant animals of all ages It does not able feed for ruminant animals of all ages. It does not
pay to crowd the animal unduly just the week or two pay to crowd the anima induly just the week or the Cheir feed by sale-day; both ends of the animal should
be.watched, at all times, more especially when feeding heavily on grain
When planning the sale-date, it is well to arrange freshen or at mast teall dyuncous will be about due to theshen or a cow breast wutal a alvenceed in calf. It it seldom bring her value. The purchaser will not take the risk of the cow turning out to be a non-breeder. In many
instances it pays to sell a newly-freshened cow with instances it pays foot sell a newly-freshened cow with It pays to have a good sale-ring, this is where many
aall down; they do not provide for the comfort of the prospective purchaser. Having the bidderss standing
around the barnyard with their backs against the dhill orth wind is not advantageous to the holder of a grade or pure-bred sale, Have the sale under cover if possible;
if this is known, inclement weather does not deter breed ets from attending, Where a buildiong io not not avaitable, crowd to press in upon the animals, have a large tring roped off, beyond which no one but those engaged in the
selling of the animal can pass: this will seling on eaniman can pass; this will give a larger
number an opportunity of ivewing the animal in the
rine At An mill
 alound the ring. If this is done, it makes it possible
for a good many more people to get a view of the animals being sold.
With
giving the breeding and show-ring or milk records of the
animals should be published. This gives the purchasers an opportunity of studying the breeding. Care should or taken that the ages of the animals, date of breeding
or freshening, are accurately printed. If a number of corrections have to be made on sale day it has a tendency or give a bad impression. All animals catalogued or advertised to be sold should be disposed of; this
buying in of animals which the beer arying in of animals which the breeder does not think any good, especially if he plans on holding an annual sale. The public soon get wise to such a practice, and are not particular about attending such sales. In order to secure the highest price at auction sales, it is important that the animals be in a condition to attract
the eye, that they are well trained and that they have the eye, that they are well trained, and that they have
good breed type and conformation,


Suffolk Ram.

## Champion at Toronto for Jas. Bowman, Guelph

## Increasing Ontario's Flocks.

situated Coned with some countries not so favorably sthe past three or four years the flock has been as profits able a branch of farm as any, mutton has been selling at a thar price, and wool has been particularly high That these proces will continue no one can say, but if they do decrease somewhat there should still be money are considered. The present flocks might advisment be increased and many new flocks founded. The damage to Aotsk by dogsis one reason fiven why more do not keep sheep. Only recently we heard of several flocks
which has been mutilated by the raves of whisch ias been mutilated by the ravages of stray curs contend with even though ontario has as good a shee law as there is in the world
of, and there is an year surplus stock is being disposed pick up foundation stock shear is possibly the best to buy, althearing or two shear ewe in many cases will be a profoftable in investrent. Always look at the mouth of a ewe and if the teeth are
going do not buy going, do not buy. Ewes without teeth, those which are poor milers or vicious with their lambs should be
culled out and sent to the butcher rather than sold to a breeder. The flock should be culled every year, and thritty young stuff kept in the placed of every year, unprobtable. stock discarded. It is not neressary to
start with a a large flock, it is better to buy a few yood head of young stuff fand mate them with the best sire obtainable. In a very few years the increase will atically large, select Alock, especially if culling is system he is chea purchase a second-grade ram just because ie is cheap. A poor ram is dear at any price, as his
infuence on the flock extends over several years. The
The ordinary flock can soon be turned into an extraordinary one, especially from a quality standpoint, by the breeder
exercising care in the choice of a fock hear

## THE FARM.

## Seed Control Act Revised.

A revision of the Seed Crontrol Act recently became and renders new ones operative. This revision is standards for seed the definition of noxious weeds and force are given herewith

## Noxious Weeds

purpose of the above-mentioned Act which shall for the in the meaning of the term "Noxious Weeds" shall Russian thistle, purple cockle, campions (including white cockle, night-flowering catchfly, and bladder campion) cow cockle, stinkweed, false flax, ball mustard, wild radish, wild mustard and other wild Brassica species, hare's-ear mustard, tumbling mustard, wild carrot,
field bindweed, dodder, blue bur or stickseed ribgrass, ragweed, ox-eye daisy, Canada thistle and

Tolerance Within Meaning of "Free"
The maximum proportion of seeds of noxious
weeds that may be tolerated in any seeds withon the said weed character as being free from the seeds oo
said Act, shell be meaning of section 6 of th said Act, shall be as follows:
(a) For seeds of oats, barley, wheat, rye, buck proximately similar in size, one weed seed in one pap
avoirdupois.

> avoirdupois.
(b) For seeds of flax, millet or other seeds approxi-
mately similar in size, one weed seed in mately simila
avoirdupois.
clover and grasses, five weed seeds in clover, crin
dupois.
3. The maximum proportion of seeds of towtint affecting their character as being free from the seeds within the meaning of grade Extra No. 1 as de
fined in paragraph (a) Secton 8 . fined in paragraph (a) Section 8 of the said Act an Clause 4 hereof shall be one noxious weed seed in on
ounce avoirdupois, provided, however, that the weed
seeds tolerated in seeds tolerated in this proportion shall, not include weed
of twitch or couch grass, bladder campion, wild of twitch or couch grass, bladder campion, wild muste
wild carrot, ox-eye daisy or perennial sow thistle.

Skeds Which May be Solio Under Speciat
Grades.
Grades.
4. The seeds of sweet clover, white clover, grasses
and millet may be merchandised under the regulations and grade designations defined for timothy, red ed aid Ac poses may be merchandised and corn for seeding pur 12 of these regulations, and anyes $6,7,8,9,10$, 11 and 12 of these regulations, and any grain so merchandised
which contains more noxious weed seeds or is of lower germination than is defined by the standard of of lle grein designated shall be deemed to be sold, offered, exposed or had in possession for sale in violation of sectio
Seed Grade Standards for Wheat, Oats, Barley
and Rye.
6. Extra No. 1 seed wheat, seed oats, seed barley
or seed rye shall consist of a correctly named and ap proved variety, shall be practically named-and varieties, shall contain not more than 50 kernels pound of other grain, including black or domestic or yellow varieties of oats, shall be free from nioxio weed seeds, shall be well cleaned and graded to remove foreign matter: shall be sound and of seeds and oif weigh not less than two pounds per measured bual more than the standard weight for grain of the kind and shall be capable of germinating at least 90 per ce 7. No. 1 seed wheat, seed oats, seed barley and
seed rye shall consist of at least 95 per cent, of one seed rye shall consist of at least 95 per cent, of one variety or type distinguishable from an examination other kinds of grain. shall be reasonably free seeds within the meaning of the said Act (see paragrap (a) clause 2 of these regulations); shall be well clea and graded to remove light and small kernels, ce and of good color, shall weigh not less than the stand weight per measured bushel of grain of the kind and shall be capable of germinating at least 80 per cent子. No. 2 seed oats and seed barley shall be
same as No. 1 in same as No. 1 in all respects except that it may conta grade No. r, but not matter than is permitted grade No. I, but not including any excess of noxious in a proportion not exceeding ten in one pound of grain.

Grade Standards for Flax-seed.
9. No. 1 flax-seed for seeding purposes shall
mature, sound, dry and sweet; shall be practicatly from seeds of other cultivated plants; shall be Act (see parious weed seeds within the meaning of the shall be well cleaned (b) clause 2 of these reg amaged kernels, common weed seeds and other foreig. 90 per cent. shall be capable of germinating at le for Canadian Certificates for this grade may be issued accompanied by an affidavit of pedigree or certificate of registration that is satisfactory to the Chief Inspector
of Seeds.
10. No. 2 flax-seed or Canàdian fibre flax-seed shall be the same as No. 1 in all respects, except that exceeding five in oxe ounce of seeds in a proportion no exceeding five in one ounce of flaxseed.

Grade Standards for No, 1 Seed Corn. 11. No. 1 seed corn, whether on the cob or shelled, sale, for seeding in Canada, shall be plainly marked
with:
(a) the correct variety name, and
(b) the province or state where grown.

No. 1 seed corn on the cob shall consist of sound well-developed ears that are reasonably uniform and cured and shall be capable of germinating at least 95

No. 1 seed corn shelled shall consist of sound, reasonshall be well cleaned and graded, shall contain not more han 16 per cent miois and shall be capable of

## 1

Founded 1866 any seeds withoti ree from the seeds of g of section 6 of the , wheat, rye, buck ed seed in one poung other seeds approxi
seed in one seed in one ounc white clover, crimsol $s$ in one ounce avoin of seeds of noxious any seeds without e Extra No. 1 as de of the said Act ous weed seed in
rever, that the $y$ rever, that the $y$
hall not include thes
mpion, wild mpion, wild mustard Under Special
white clover, giasse: under the regulations timothy, red elover orn for seeding pur the grade standards
$6,7,8,9,10$, 11. and ain so, merchandised seeds or is of lower standard of the grain old, offered, exposed
olation of sections 6 olation of sections 6

OATS, Bark
ed oats, seed harley ectly named and aplly free from other
than 50 kernels per ack or domestic pats nd graded to remove veed seeds and other of good color:-shall $r$ grain of the kind, at least 90 per cent its, seed barley and 95 per cent. of one rom an examination easonably free from
from noxious weed d Act (see paragraph shall be well cleaned tall kernels, common tter; shall be sound
ss than the standard ss than the standar
in of the kind and least 80 per cent. barley shall be the that it may contain is permitted in y excess of noxious ch may be tolerated LAX-SEED. purposes shall be it be practically ants; shall be meaning of the o remove light and ds and other foregn erminating at least rade may be issulud ed that the seed is digree or certificate

THE FARMER'S ADVOCATE.
In the Fall of the Year.

"When the Frost is on the Pumpkins, and the Corn is in the Shock."


The Winner at a Past Plowing Mateh.


The Golden Hoofs Following Their Leader to New Pastures.


Harvesting Potatoes in the East.
Full of Canned Corn for the Cattle.


## The Mangel Crop.

Although the past season has not been particularly
avorable for roots there are many fair fields of mangels This class of roots are especially prized by dairymen and hog feeders. They do not taint milk as do turnips they are not so firm and contain more sugar. Although they are a watery feed containing only about 9.5 per cent of dry matter they produce an abundance of feed
per acre owing to the heavy yield. At one time the per acre owing to the heavy yield. At one time the
long ced growing principally into, instead of out, of the
ground was grown. While the yield of harvesting was arduous indeed. The sugar mange is now. grown to a greater extent. It not only is a
little higher in dry matter content but is much easier to harvest. Mangels are good for all classes of stock, but should
not be fed for too long a time to rams or wethers, as here is danger of producing stones in the urinary organs. They are an excellent feed for cows, and experiments
have proven one pound of dry matter in mangels to have proven one pound of dry matter in mangels to
be equal in feeding value to one pound of grain or eleve pounds of mangels equal a pound of grain. Thus with the present price of grain the value of a ton of mangels can be estimated. However, they are a conditioner which en bestinning the basis of grain prices Pe arrived all the dry matter in roots is available. Practicall Experiments given in "Feeds and Feeding" by Henr and Mortison show seven and one-half pounds of mangels On be equal in heeding value to a pound of barley mea On a basis of the present price of grain,an acre of mangels
of average yield would be worth nearly one hundred dollars.
ift and store mangels with the least poussibe taken to lift and store mangels with the least possible loss. Som easiest method it is not necessarily the best. Mangel bend considerably when cut and for this reason it dvisable to pull by hand and twist the tops off. I one before a severe frost this is not a difficult task as is for a man to top and throw four rows into one. Thi saves time in gathering. Mangels are more easily njured by frost than turnips, consequently should be iven the preference in the root cellar. They will also stored it is essential that there be ventilation without
frost.

## About Farmers' Clubs

Editor "The Farmer's Advocate"
When the Farmers' Club was being introduced hointed Secretary -Treasurer of a newly organized clup n the vicinity where I then lived and consequently I was in a position to get a look at the inside machinery who addressed us that evening and who to the little club born that night seemed very anxious oimpress upon us all that this was to be no aggressive fere with our local merch be aken in no wise inter ere with our local merchants in their lines of business
and livihoor. A good child does as it is told and in consequence we soon found that little else was left or us to do, for no matter what lines we took up we ound experienced rivals arready in the field and con-To-day, looking at fars lubs persh. notice a great change in their constitution: Where the nce feared to tread now they are dancing the war dance and shouting their battle cry of "Down with the slad that they have dug up the hatchet and made trul he scalping knife for the top-not of the middleman and the manipulators. I do not pretend in this brief article ogo into the details of the conflict but want to touch apon some points where I think the clubs fall down
sadly. I am speaking, mind you only of thase dub whereof I know. None of these have so matured clubs assume the responsibility of shipping their product past the middleman's door but they are trying to do their own buying, or at least their representative
are endeavoring to do it for them, and it looks to are endeavoring to do it for them, and it looks to me to say right here that I would like to see the farmers make a success of this squeezzing out of unnecessary
middlemen but I don't believe it can ever be accomplish middlemen but I don't believe it can ever be accomplish-
ed under the present system. And it isn't the farmers' ed under the present system; And it isn't the farmers'
fault either. Around here it is marvellous how loval they are to the cause. How they stand for the service given by "Headquarters" is beyond the patience of
Joab. I know how long they would put up with such
catering from a storckeener or rather sorrow, for several years to be my pleasure to the fastidious public and unless one is Jonnie--on-the spot with the goops and the pricesso.... there is not much
business coming. Therelore, know wing how erratic and impatient is the pullic, I say it is no wonder to me that
the farmers' clut in iot a marvelous success from a
buying standpoint, and that is the angle from which I am talking.
When sugar is on the want list heads are counted and the order goes to heaquarters, peaces to be 81.15 ,
subject to "change without notice", subject o change without notice, and consequently
a wek, ten days, or two weeks later, at some inconven-
ient season, when sugar has been purchased at town in order o save the over-ripened fruit, and obtained at
$\$ 11$ trade, the phone rings and the Serctery tells , ou that the sugar has come. You just catch him in time to ask the price and bang up the recciver as
the vibations of $\$ 11.25$ reiterate against your ear

Last winter certain members thought they were getting stalled on baker's bread. Others conderined
the flour from the local mill and when quotations were read out at the next meeting of the Club a rush order became more and in. The patrons of jones the beaks of home flour all but perished with indigestion long ere from the milling company of their order: later an apology saying "orders were behind" and finally the shipping bill. Then a few days later along come the flour in voiced at prevailing prices and the raise.


The String Method of ${ }^{2}$ Hanging Corn.
delays, and you of aldozen such disappointments members of the farmers' clubs in this yivinity under the present system of autocratic buying. I have talked with not a few members and they admit the conditions Truby "Sinatic and undusinesslike is very essential for the farmers' clubs to be held to gether by some central representative organization
but the business of such I contend should be purrl) executive


Corn Impaled on Nails for Drying.
If the Farmers' Clubs want to to th out the middl man, if they want to get actual and efficient as well ay
independent service and get down to buying and doing
business on the vel cut and simple way to it by having cenural storts their own with a competent, experienced and trui-
worthy man therein to handle their business and mee The grain and they have found that they not given this a cry much cheaper but that the stores ane a going conicm pay not only all their own expenses but have? st
factory dividend each year to the credit of the sto
holders
tubs, Inderstand, have been reprepot at which several with a convenient warehouse. What I suggest is that a cluos concerned get together, raise stock, and open their wants, day from day, shall dictate. They goods as get their requirements for the asking at They could their store would catch a lot of floating trade and would instead of members the pride of the community and would be a stampede for membership for where there is anything that looks like a hand-out humanity scramLambton Co.,

Selecting and Storing Seed Corn. It has been a good many years since corn in Ontario Up to the time of writing, over a large section of Ontario. there has been no frost to affect the crop, and at the time the ears have been hardening, the germ has been storing up lire and vitality, and the whole kernel has or to feed the little corn plant within when ive stock from its long sleep in the spring. Throughout many districts where silos are the rule, much corn has been ensiled tha+ was amply fit for husking and, in a great
many cases, sufficiently matured for seed. It has been a long time indeed, since there were so many loose cobs to gather from the field after the rush of filling was over, and the quality of silage to be fed this winter ought to be superior, to say the least. The crop, as a
rule, has not been a heavy one; a little less rain in the rule, has not been a heavy one; a little less rain in the
spring and a little more during summer would have made a better season, which, however, has been particu. larly favorable in one regard-a great quantity of
corn has matured sufficiently for seed and thert shofld corn has matured sufficiently for seed, and there should be no dearth of this commodity throughout the country
next spring if this year's product is properly selected next spring in this year's product is properly selected
and stored. A great many have already provided for next season by preserving the best cobs, but unless it we are properly dried and safely stored In repard to corrou it is better to sake a rivid selection. and then give the chosen sample every possible care and attention. A bushel of corn will plant in the neiegh it is planted in hills or drils, and the thic eness of sowing The quantity of seed required to plant ten acres is,
therefore, not large, and quality is more essential than quantity

In selecting corn for seed, it is well to give attention While it is not possible to state the exact length and circumference of an ear of corn for all varieties, experts
are fairly well agreed that the best length for an ear of are fairly well agreed that the best length for an ear of ference, measured at one third the distance circum to tip, $51 / 2$ to $71 /$ inches In dent con there is artain ratio between circumference and length which is best: the circumference should be three-quarters of the length. The rows on an ear of corn should be regular, there
should not be an extra number at the butt, nor a few rows dropped towards the tip; this is not a fancy point merelv. Regular rows mean more corn. The kerne
should toward the tip are always smaller than the others, and
show less dent, and those near the butt are also less show less dent, and those near the butt are also less
dented, but are thicker and heavier than the average. dented, but are thicker and heavier than the average.
However, an accentuation of these differences is to be

The most important part of the ear is the central portion, that is where most of the grain is found, and
it should be full and strong Shapes to avoid are the it should be full and strong. Shapes to avoid are the
cylindrical (those of the same thickness from butt to tip) allowable in flint corn but not in dent. The too tapering (in these the yield is diminished) and those with enlarged butts. The ideal ear is strong in the centre, tapers slightly towards the tip for about three
inches, has full rounded butt and full tip. Too much attention in selecting seed ears, to having butts and tips well covered, without due regard also for proper
length of ear, has resulted in some cases in shortening the ear unduly.
The best shape of kernel is one that is broadly rounding and wedge-shaped; such is best for either seed to be avoided, and on the other hand those of the shoe-peg type are also undesirable. The sides of the well up to a square shoulder; the point should be plump. The germ is towards the point, and is the part of the
grain richest in have their full force when corn inge grow for silage in-
stead of for grain: however if one looks for these fatures in seed corn he will obtain stock full of strength, vitality, be added to this, however, the point that it is always been an open fall in which large-growing, late-maturing corn has a good chance. One year with another, out-
side of the recognized corn belt, it might be better to sacrifice a little in yield in order to get more maturity. The majority of farmers are inclined to grown corn The storing of corn and late. ery important. It is the moisture in the kernel which injured by frost. It sometimes happens, however, wards gather moich has been dried properly may afterduring ather moisture sufficient to cause it to be injured What I suggest is is that staple lines of goods as
1 dictate. They could asking at first cruices
oating trade and would the commundity and
from the clubs ther ship for where there is
out humanity scram.
W. A. Edwards.

## g Seed Corn

s since corn in Ontario
to harden and to harden and mature. the crop, and all the
ng, the germ has been the whole kernel has ithin when it awakens . much countrout has been usking and, in a great
for seed. It has been for seed. It has been to be fed this whter
least. The crop a littile less rain in the summer would have ever, has been particu--
-a great quantito of
seed, and there should hroughout the country
it is properly selected already provided for best cobs, but uless
y stored for the winter te seed in the spring.
make a rigid selection every possible care and 11 plant in the neieh phe thickness of sowing to plant ten acres is,
is more essential than
well to give attention which apply generally,
the exact length and the exact eng and
or all varietios, experts
st length for an ear of st length for an ear of he distance from butt corn there is a certa
length which is bee quarters of the length rould be regular, there
it the butt, nor a few is is not a fancy point
re corn. The kerness sughout, the keriel
than the others, and the butt are also les
ier than the average
the ear is the centra te grain is found, and
apes to avoid are the nickness from butt to mot in dent. The too
liminished) and those iminished) and those
ear is strong in the ne tip for about three
d full tip. Too much
tion to having butts and
egard also for proper
ne one that is broadly
is best for either seed uch rounded edges are er hand those of the do with width carried lese features may not s grown for silage in-
ooks for these features Ooks for these featured,
11 of strength, vitatity
crop. There should oint that it it always e locality. This has
rowing, late-maturing rowing, , ate-maturing
ar with another, out-
it with it might be better to
to get more maturity
dined to grown corn has been selected, is
re in the kernel which $t$ dry, corn will not be 5 happens, however properly may anter
cause it to be injured rtant not only to dry

October 9,-1919

## THE FARMER'S ADVOCATE

the sample, but to keep it dry. The loft of a barn is, in most cases, suitable for storing seed corn, the granary is also good, but perhaps the best preserved corn uway in
ordinary farm conditions is that which is put away in he attic or some unused room in the house. and of should not be allowed to touch each other, and, of course, mic

A suitable way of preserving cobs of corn is to impale hem on nails driven into a piece of $x 2$ scanting, rafters in the attic, or from the loft in the granary or barn. When any quantity is to be put oway in the the nor in this way so much space is not required as when four sides of the scantling are used. Finishing nails are very
are small.
Another method of suspending corn is to take a long cord and tie the two 100 enc ends together. The two strings thus paralleling each oother are place
three inches apart, a cob of corn is placed in the centre of the string, the two ends are then brought over the top of the cob, and another ear of corn is slaced in the crotch thus made; this goes on until the full length of
the string is utilized. Then the entire bundle of cor the string is utilized. Then the entire bundie on cor is suspended from it possible to keep the corn out of reach of also makes
vermin, and it prevents the ears touching each other.

There are various ways of preserving seed corn, keep it dry, prevent the cobs from touching each other, and to keep it out of the reach of vermin.

AUTOMOBILES, FARM MACHINERY AND FARM MOTORS
fire. Tractors are not fool proof machines. Common-
sense musl be used in running them. That riding plow requires oil. Don't wait for that at least twice a day.

When plowing with horses or tractor, start the old time pride in a nicely-set, straight furrow see —

Gasoline and kerosene engines sometimes contract the habit of stopping on the slightest provocation and
refuse to again start for a time. Over heating may be one cause; dirty connections or spark plugs may also
be the be the seat of trouble

Some makes of combination drills are not built heavy enough for their work. Fertilizer is a heavy
material which requires strong, firmly built parts to material which requires strong, firmly built parts
carry and feed it, When the grain and fertilizer
tachment are together extra heavy parts are needed.

Did it ever occur to you that many breaks with attendant loss of time could be avoided by keeping nuts
tightened, boxings fitting snugly and using oil?
Too tightened, boxings fitting snuyly and using insly until
many drive machine along thoughtlesly
the something goes wrong. Go over the mac
once a day and see that everything is right.

This summer we saw a binder which had been left in the field a year ago. The owner cultivated and seeded
around it this spring. The loss incurred through
failure to touse this expensive machine would amount to many dollars a year. The elements play havoc
vith iron as well as with wooden parts. House the mplements if possible.

The loss through fire is very heavy in Canada Help lessen this loss by not allowing rubbish to lie
ound; being careful in the use of matches; not over heating the stoves; guarding honfires, etc. Over
seventeen thousand fires occured in Canada last year many of which could

Plan on attending one of the plowing matches his fall. The Interprovincial match is held at Central 14, 15 and 10. The International match is held at Chatham, October 21,22 and 23 . Different makes of
tractors will be in operation at both places and will give prospective purchasers an opportunity of comparing
the work done by the different types. he work done by the different type

The Tractor on the Farm During the past few years the tractor has taken the place of the horse in doing much of the heavy work, on the ordinary farm. At .one time it was thought that the tractor was practicable only on a prairie, where the furrow was a half-mile or more in length,
however, to-day the tractor is to te found however, to-day the tractor is to be found working
satisfactorily in the ten-, fifteen-, and twenty-acre field. While the large tractor pulling six or eight bottoms may
be suitable for some sections, the smaller mach ines


The Tractor Speeds the Plowing.
pulling a two or three bottom plow is more adaptable to Ontario conditions. The scarcity of labor and the increased cost of horse feeding leand equipment which have led and are leading to an increased use of tractors. Not only are they adaptable to the pulling of plows, but are used on the cultivators, discs and harrows for preparing the seed-bed and for
after-harvest cultivation. They are not affected by atter-harvest curtivation. may be driven a whole day without having to be winded, as is the case with the team during hot, sultry weather. The tractor is being used to draw the binder, mower, wagon and hay-1oader be done with it; they are used to drive the threshing gasoline and others on kerosene
At. irst it was thought that there would be too much
waste of time in turning, and too large a headland


Laying Out a Field for Tractor Plowing
needed for turning on in a small field; these objections can largely be overcome by laying out the field properly for tractor plowing; where wige lands are used, unlere
is considerable time lost in going around the ends unless the machine is turned to the right for part of the lan
and to the left for the remainder. With small land and to the curn bother some, it takes a little practice to be able to drive so that the plow will start in at the proper place, in fact, some men have difficulty in handling their horses so that the plow will cut the
full width and no more when starting in off the headland
Some tractors will make short turns more easily
than others. In order to avoid waste of time in making the turns, the U. S. Dept. of Agriculture, has issued a bulletin, written by H . R. Tolley, on the laying out of
fields for tractor plowing.
He thelds Ior tractor plowise whily be borne in mind by tractor owners when laying out fields for plowing. With too many there is a tendency to sacrifice quality of work for speed, this should never be condoned, either with
tractor or team. Plowing is one of the most important
tillage operations, and careless work done results in diminishing of the crop yield and an increase in noxious
weeds. In regard to laying out the field, Mr. Tolley weeds. 1 In rega
writes as follow,

Making short turns is awkward work for most tractors, and where such turns are necessary the operator often has more or less difficulty in getting the outfit the right cont position star size of the trartorw wil have much to do with the ease in making short turns tut short turns are always troublesome. The plow man should decide before he starts work on the field o what extent he can afford to drive the outfit with the plows ide, of a short one, or just how much he can sacrifice in the quality of his work to avoid awkward turns. While it may pay to make some effort to avoid short urns with a arge, cumbersome outitit, it should be born in mind that the loss of time and fuel due to making pulling several plows is just as serious as it is with the mall, easily-handled tractors. From the standpoin of time lost in idle running, the size of the tractor and the number of plows puled should be considered only vith referenci and it might pay to lay out in five lands for a 4 -plow out field that would have been plowed in six lands with -plow outfit, but it would rarely, if ever, pay to lay ractors turn more easily in one direction than. Snother nd with an outfit of which this is true it may pay to lay out the fields accordingly. If the outfitit is no quipped with self-liit plows, a certain amount of time must be taken to stop the tractor and lift the plow more proftable to adopt a method by which the plow will have to te lifted a very few times, if at ah. I deciding how wide the lands are to be, the ease of handling the tractor and plows may not always be the nost important ha best to make narrow lands with requent furrows and back furrows as an aid to drainage while in more arid regions or drained soil the revers will be true. The contour of the ground or the shape of the field may be such ast be followed in the plowing In short, many circumstances must be considered before deciding just what method would be best for a particular presents a a problem of its own, and there can be no ong best method for all cases
me methods in general use can be divided into two general classes: (1) those in which the plows are lifted and no plowing is done across the ends; and (2) hose in which the plows are ter in the groupd whit going across the ends. The advantases ortowle pt in some cases at the beginning and ending of the lands, and usually less space will be left at the corners to be plowed out with horses. it is generally possibic aso to do a ittue higher quality advantages of the methods of the second class are that little or no time is lost in travelling with the plows out of the ground, and that ordinarily the number of dead furrows and back furrows will be considerably less. However, the turn at each corner must be made as is to be reduced to a minimum, and the land at the turning points, lying in diagonal lines extending from the corners of the or back furrows, is likely to be poorly plowed. Taking plows are idle across the ends are the more popular, but a large number of farmers have a decided preference for thise by which the plows are kept in the ground continuously.

Width of Lands.
If a method in which the plows will be out of the ground going across the ends is chosen, the frirs lands, and how wide to leave the headlands on which to turn. The wider the lands are made the fewer will be the dead furrows and back furrows, but the greater will be the time consumed in idie running across the plows out of the ground can be obtained by considering a specific case. Suppose a field 40 rods wide is to be plowed in this manner, one land at a time, and that it
is laid off into six lands. Each land will be 110 feet is laid off into six lands. Each land will be 110 feet
wide. If the tractor is pulling three 14 -inch plows it will take 32 trips across the field to plow out each land. If we ignore the extra distances that the tractor must cover in swinging oute she furrow and back into it again, and in making the short or figure-eight turns
in starting a back-furrow land or finishing a dead furrow the average length of travel across the ends-that is, the average distance in a straight line from where the plows are taken out of the ground to where they ente makes 1,750 feet, or one-third mile for each land or miles of idle travelling in plowing the entire field. the field were laid out into 12 lands, each 55 feet wide the total empty travel would be 1 mile, while if the
feld ware laid out in three lands, it would be 4 miles. field were laid out in three lands, it would be 4 miles, at each back furrow or dead furrow, which must be added to the time to travel these straight-line distance will reduce the advantage of the narrow lands in this respect to a certain degree; but ordinarily a three-plow tractor, which has a comparatively short turning radius
and with which the making of short turns does no and with which of time, will plow a strip of 40 rod
wide laid out in six lands in about an hour's less time will have to make one and one-half times as many trips across the field to plow a strip of a given many and consequently the time lost in idle running will be about 50 per cent. greater than with the 3 -plow outfit. A 4-plow outfit will have to make only half as many trips as the 2 -plow outfit,-and so will lose only half as
much time. Each farmer must balance for himealf this saving in time in making narrow lands, against the extra dead furrows and back furrows and the difficulties of short turns, and decide on the width of the lands accordingly. The most popular width seems to
be from 100 to 200 feet. However if the field has no irregularities, its entire width should be measured and divided up so that all the lands will be of the same width or nearly so.

## Headlands.

If the field is fenced on all sides, it will usually be better to leave an unplowed strip of uniform width the field is plowed out, than to have the lands extend to the fences on the sides. A headland extending clear around the field can be plowed by going repeatedly around the field until it is finished swithout having to make any short, awkward turns, If one end of the road or lane or an adjoining field for turning it may a preferable to plow up to the fences on the two sides, as the body of the feld is being plowed, and leave a headland onily across the end of the field which is fenced. furrow or back furrow through the centre, and more space will have to be left in the corners at the ends of the headland for turning the tractor. The width of the headland will depend largely on the turning radius of the tractor with attached plows, and some farmers
with very-easily handled outfits do not leave over 15 or 20 feet; but any extra ground in the headland will be plowed just as quickly as if it were plowed with the
body of the field, and plenty of room should always be body of the field, and plenty of room should always be
left to atlow easy turning and to get the outfit headed in exact direction on entering the furrows. Also the
wider the headland, the less is the tendency to go over the same ground repeatedly in turning at the ends wheri plowing out the body of the field, and consequently the ends will be packed less seriously. Headferable to very narrow ones. width of the headlands should be at least twice as great as the length of the
outfit with the plows atouthit with the plows at-
tached. Some farmers plow once around the field along
the line of the headland, before starting on the body good guide for lifting the good guide for lifting the
plows and letting them into the ground again at the

Setting Stakes and
If the field is to be finished
up in the best manner,
with no irregular unplowed strips between the lands
or at the edges, it is essential that have the headland of the same width clear around the
field, to have the distance measul starting new lands, and to have the first furrows as nearly straight as possible. A little extra time taken plenty of stakes for guidess will nearly always be more plenty of stakes for guides will nearly always be more
than returned in saving time at the finish. Most farmers will prefer to "step off" the distances rather than use any more precise measure, and, as far as accuracy is
concerned, this will usually be satisfactory; but if the tractor pulls three or more plows, cutting a total width
of 3 or $31 / 2$ feet or more, some effort should to have each distance an exact multiple of the made width of the plow, so that the last trip across the field
will 'exactly cut out the land or finish it This will do away with the necessity of making a trip Thrs will do away with the necessity of making a trip
across the field, probably over the plowed ground, to turn over a narrow strip possibly only a few inches in
width. It is usually hard to handle the tractor in
finishing out finishing out such a strip, and it takes at least as much
time as it would to plow one of full width. Some time as it would to plow one of full width. Some
recommend that an A frame of the same width as the
total width of the plows be used for measurin distances. Then whatever the total, width of the land
is, the last trip will exactly finish it." Even with the walking or riding plow it is important
that care be taken in measuring off the lands. Carelessness has crept into the method of plowing and, as a
result, back furrows are not so neatly made, and dead
furrows are fesult, hack furrows are not so neatly made, and dead
furows are not properly, cleaned out. How can they
he when one end of the land is a few feet wider than the other. While the back furrows may be turned with
the tractor, many prefer to use the team and walking
plow for striking out lands, finishing the lands, and in plow for striking out lands, finishing the lands, and in
plowing the corners. The accompanying illustration shows one method of
driving to avoid short turns. The first furrow is struck
at D, and left hand turns ar from B. to C equals the space from A to B , the space right
hand turns are made hand turns are made from C to D until the space B to
C is plowed, leaving a dead furrow at B. The remainder of the lands are plowed in a similar manerer. It will
be noted that the headland has been marked and will be noted that the headland has been marked and equal
distance left unplowed above A so that in doing the
headlands the plow is drawn around the feld. will leave a small-strip in each corner unturned from the left hand furrow to the bee made by goin land, then turning to the left and circling to the head or vice versa. Some commence at the outside and plow around the field, finishing in the centre. When this is done it is necessary to plow out to the four corners Even though the plow is left in the ground at the circula
turn, it does not properly turn the furrow for a few By using a properly the the flowing or for a few fee be donè more quickly than by horse-power, if everything works properly. Some have had difficulty with the tractors, but in many cases it was due to lack of knowledge of running the machine. Some who understand The tractor is a comparatively new power in Ontari and, as might be expected, they have not given satis faction under all conditions. At the most inopportune time they have refused to work; parts have worn o broken and, repair service not being fully established have occasioned delays of a week or more. However
there are a number of makes of tractors which have stood the initiation and now give good service. It must be remenabered that the operator is to a certair extent responsible for a machine not being up to its reputation. All men are not good horsemen, neithe
are all men mechanics. Some do not use good common sense in running machinery, and as a result the particular machine they are working with falls down in its
There are big tractors and little ones, those that pull six and eight plows, and those pulling but two
some must be guided, others are self-steering are four-wheeled, three-wheeled and caterpillar-wheel machines. Some burn gasoline, some kerosene, and others burn both. See them in operation in the field merits and demerits of the different makes.

## A Hundred Million Dollar Junk

 Pile.article writer in Fart entitled: "The Farminery- Farm Power, in an Pile," states in part "that this is the worth of valuable farm implements gone to ruin by needless exposure to

ractor Power Aids in Soil Cultivation
all kinds of weather
ducing his subject
A hundred million dollar junk pile! Money enough rotting and rusting away in neglected implements the whole wheat crop! All this mand more is to harvest farmers' item in the country's profit and loss column Accent lies on the loss.
Consider what this means. Every neglected farm old cash out of the farmer's pocket. mplement can be made to last fifteen or care a farm often longer. Take for proof the case of C.S. Johnson. He writes that he has used his plow every season for
thirty-five vears. It's a safe bet that thirty-five years. It's a safe bet that he knows the
value of taking care of the machinery he makes his living Now consider the other side of the question-the
neglect side. How long would Mr. Iohnson's have lasted if he left it in the field he was last plowing whenever he got through with it? Perhaps four or five
years. By that time it would have rusted and checked That is precisely what happens hundreds of times a ear. The farmer neglects his tools. In a few years hey go into the discard. Pretty soon up drives the
unk man and off goes the plow, or rake or whateve it nay be a sad monument of neglect as it whatever it Here are four suggestions for stopping -this waste fiod of usefulness has run its course: 1. Paint every farm implement after every season's 2. Protect all bright metal parts with heavy grease. 4. Keep a supply of spare parts on hand and keep There is a good reason for the bright and shiny coat of paint on every new farm implement. It is not there
merely to dazzle the eye of the beholder. Nor is its purpose to add an aesthetic toucho to an otherwise plods his weary way. It is there plowman homeward plods his weary way. It is there because the manu-
facturer knows that paint is the best preservative for
his machinery. He knows, too, that if a coat or two of paint were applied every season to the once bright and
shiny wooden parts, and if the metal and greased at the same time there were cleaned more contented owner of the implement and a more cultivator save dollars on a single plow, or harrow, or cultivator, may not seem a big return for the labor of
dragging home every implement and tale care of it. But the time to paint and care for proper piece of farm machinery on the place is during every weeks when outdoor work is slack-when the plowing in paints of are done, or the crops are in. Any dealer the grades of paint best suited for use on different tion to of farm implements.
thinks of the large tractor manufacturing impor ant that they are directing part of theirments is so toward making the farmers see the dangers of neglect Blue sky and a wire fence, they tell the farmers, is no machinery. They How will my taking better care of the imple-
ments I have help the whole country any?" the farmer may ask.
he answer is this: If every farmer will do his share in tang care his own farm implements; if he will clean he will be doing his part in one of the biggest tasks the farmer can do for the country. He will redeem the hundred million dollar junk pile;
he will help put thousands of dollars into the farmers pockets; money that is thrown away in the shape be at work: hiscarde dilapidated, useless tools that should implement life for the country's use every season. A plow, for example, can do a certain amount of wort a year. If neglected, its contribution is only four or proper care will make it yield, is the same as the contribution of a year's work by an extra plow.
Effects of neglecting farm machinery are more farreaching than at first appears. First comes the harm
to the machine itself-shortened life and wasted in vestment. Then there is the lessened efficiency in the use of the machine - a loss of both time and effectiveness

## THE DAIRY.

Bacteria, Yeasts and Molds in Dairy Products.
This article is the major part of an address delivered question of micro-organisms and their relation to the production of first-rate dairy products is important and closely bound up with the future development of
the creamery industry. In his report of the season's the creamery industry. In his report of the season's
instructive work, it will be recalled that F. Herns, instructive work, it will be recalled that F. Herns,
Chief Instructor for Western Ontario, asked for special
consideration of this matter by the dairymen, and that consideration of this matter by the dairymen, and that the other speakers were emphatic in advocating careful
pasteurization as one of the means of improving the quality of Ontario butter. This matter is not of imevery producer. and creamery man whose product is
sold as Canadian. sold as Canadian.

## microbes it is age person thinks of bacteria, germs

 Fortunately, for is usually in connection with disease bacteria, as they are called form a very small pathogenic of the organisms at work around us, yet these few have gained unenviable notoriety through the manner inwhich they manifest their activities, namely, in attacking and frequently killing they moth, namely, in attackAgricultural bacteriology, and the application of its findings to certain agricultural industries on this continent, is a development of the last 20 years. In dairy perations, bacteria and other microscopic organisms
play an all important part, and no cheese or buttermay an all important part, and no cheese or butternowadays, unless he has studied the elements of this science, learning something of what bacteria are, where
they come from, how they live and die, and what they "In the field of dairy investigation and research, yet remains to be done. Our knowledgeo muc processes is still obscure, and we need more light in these dark corners to show us the way and to explain
things which, at the present time, we do not fully things which, at the present time, we do not fully
understand. As in the field of medicine, it is only by applying brains and money to scientific. research work
apat problems solved. Never was there a greater need for this than at the present time, when efficiency and economy are so necessary to enable us to meet com-
petition and at the same time to make our business "Another pressing necessity is the more general
application of scientific findings, already well estabapplication of scientific findings, already well estab-
lished, to every-day operations in and around our eameries cheese factories and dairy farms. Take fact that a better quality of butter can be made from properly-cooled cream than from cream not so cooled yet the average tempe atures of cream reported last cream and $72.7^{\circ} \mathrm{F}$. for 2nd grade cream, showing to

## THE FARMER'S ADVOCATE

"It is only quite recently that creamerymen have begun to take any-interest in laboratory control of the
processes carried on by them. Especially in plants ,efinning to ask themselves whether the work is being efficiently done. As the chief aim and object of pasteuri$z$ zation is the destruction of germ life in the cream, it
stands to reason that if the process is to be effective the majority of the germs must be destroyed. In so far as this is not accomp anded, toney only half doing a job which to be effective must be thoroughly done, and fooling ourselves and the public besides.
cream has also to be taken into serious consideration. It may occur in a number of different ways, neutralizing to a greater or less extent the beneficial effect of pasteurization, at least so far as the germ life in the cream
is oncerned. If it is important that the cream thould is concerned. It it is important it just as important to
be pasteurized thoroughy, it see that recontamination does not occur. It is only
by making cultural tests of the cream for bacteria, yeasts and molds at different stages of its journey from the farmer's can to, and in the churn, and of the
finished butter, that one can find out the efficiency in finished butter, that one can hind out the effiency in.
regard to these points with which the plant is being run. ${ }^{\text {regard }}$ "While bacteriology is the science which deals with bacteria, there are oinerest and inpoortance in dairy work, namely, the yeasts and molds. These are studicd by much the same methods as are used in the study of
bacteria and so it happens that the bacteriologist has taken them to some extent under his wing; It has taken thegested that the term "Microbiology", be used
been sed
to describe the science now known as "Bacteriology," to describe the science now known as "Bacteriology,
that is to say, the science which deals with microscopic
the this life; this would include the yeasts and molds as
as the bacteria, all three being classified as plants. "Let us now learn something of the numbers in which bacteria, yeasts and molds are fcund in cream
and butter, what they do, and to what extent they can
chiefly the quality of the cream, and cream quality and butter quality go hand in hand, hence the introduction
of cream grading to encourage the production of clean,
sweet and well-cooled cream, which bacterial development has not occurred to any marked degree. The butter-maker no longer has congets as he gets it and patch old; he has to take what he gets as he gets it, and patch up the damage as best he
can. Some day, perhaps, cream will be delivered to the creameries sweet and clean. The fact that 41 creameries in Iowa during the past season, in making butter for
the U. S. Navy, have handled only cream of this kind, proves that it can be done
ook at it from severa consider pasteurization we must the question of several points of view. First, there is beings through the butter, and to the live stock on the farm through the skim-milk and buttermilk. To many elimination of such dangers as these. The tuberclo bacillus has been repeatedly i olated from butter, ven after storage at low temperatures for as long as six months. Little is known about definite nfections due
to the consumption of butter containing tuberculosis germs. To safeguard the public against dangar from germs. 10 safeguard Dene public against daryer from that dairy products used in the manufacture of oleomargarine shall be effectively pasteurized; automatic temperature control with reliable recording thermometer is required, and
"With regard to the transmission of disease through creamery by-products, tuberculosis is again our chief concern. Dr. Torrance, Veterinary Director-General, has lately called attention to the marked increase
during recent years of tuberculosis among swine, parduring recent years of tuberculosis among swine, par-
ticularly among those coming from the dairy districts, due undoubtedly to a large extent to the feeding of infected dairy by-products, including buttermilk from unpasteurized cream. He recommends that the pasteur-
ization of all dairy by-products should be made com-
destroyed by pasteurization, and undoubtedly they are important factors in many cases of poor flavor and
keeping quality, due to conditions obtaining in the cream. If we would seek to improve the quality of
Ontario butter to any marked extent, while the more Ontario butter to any marked extent, while the more
general adoption of pasteurization will undoubtedly gelp, eventually we shall have to go to the source of the trouble and take steps to improve the quality of the flavor of butter or not is a matter of controversy. The different qualities of cream handed and methods o for the diferences of opinion on this point that .... find recorded from time to time. With regard to the deterioration in storage of butter made from pasteurized cream as compared with that made from raw cream it is generally recognized now that the keeping quality cream. Just how to account for this we do not know but it is probable that, besides germi destruction, othe factors are involved. Butter made from cream pasteur ized by the holding process at the lower temperatures in storage, acco observers as butter made from pasteurized cream where temperatures from $170^{\circ} \mathrm{F}$. to $185^{\circ} \mathrm{F}$. have been used This is explained by some on the basis of enzymee actiod, the enzymes present in the cream being unaffected a
the lower temperatures, while at the higher temperature the great majority of them are destroyed.
"'There has been considerable discussion of enzymes lately, so it may be well to say a little about them now Enzymes, or ferments as they are sometimes called in nature, and essential to vital activity in a number of different ways. While it is difficult to define an enzyme, their general properties are pretty well known In the first place they are able to produce, even whe present in very small amin


Nancy's Mintmaster.
Sold for $\$ 5,200$ at Ayrshire sale at Springfield, Mass
be controlled. With regard to cream we note at once
the high numbers of organisms present per cubic centimeter, very many miere than would be found in the milk from which this cream came. The bacterial
content of good milk will run from 5,000 to 50,000 per cubic centimeter, milk of medium quality from
50,000 to 500,000 per cubic centimeter, dirty, old and improperty cooled milk will show several million per
cubic centimeter, while here we have an average of million yeasts and molds. How do we account for means that some of the organisms originally present in the cream have found themselves in an environment
so much to their liking that they have grown and so much to their liking that they have grown and
multiplied rapidly, producing in a short time numbers
such as these it is fermented or partly fermented cream which we are receiving at our cream-collecting creameries to-day,
that is to say, cream in which bacterial development has progressed to a marked degree. so much the numbers of organisms present as it is the question of what they do. If they bring about any
changes in the cream, we want to know whether these changes are beneficial or injurious, and whether it is advisable to encourage the growth of the organisms
causing them, or whether it is better that they should
be controlled or destroyed. Unfortunately, in collected cream the fermentation is usually well advanced when it reaches the creamery, and what is more, it is usually
a mixed fermentation, that is to say, other bacteria a mixed fermentation, that is to say, other bacteria
besides the beneficial lactic acid bacteria have been taking a hand and these frequently have produced changes in the cream of an undesirable kind. Dirty
cows, dirty hands, unclean utensils, dust, flies, etc., cows, dirty hands, unclean utensils, dust, flies, etc.,
all add their quota of injurious bacteria to mik and cream, and lack of prompt and thorough cooling aggra-
vates the trouble by causing them to grow and multiply vates the trouble by causing them to grow and multiply
rapidy. The extent of the changes produced by the rapidty. The extent of the changes produced by the
growth of these undesirable organisms determines
pulsory. If this reccmmendation is adopted, all creamcollecting creameries will have to pasteurize their cream Pasteurization is aiso beneficial in driving off, to some roundings, and volatile substances produced by germ activity. It is impossible to measure the extent to which this takes place, but there is little doubt that the lower grades of cream-are benefited in this way. destruction of germ life in cream. Pasteurization at
$145^{\circ} \mathrm{F}$. $145^{\circ} \mathrm{F}$. for 20 minutes, in the case of 33 lots of cream
showed an efficiency of between $99.8 \%$ and $99.9 \%$ that is to say, that 998 to 999 germs out of every 1,000
were destroyed. At $185^{\circ} \mathrm{F}$. fash, the efficiency figures were destroyed. At $98.9 \%$ to $99.0 \%$, while at $165^{\circ} \mathrm{F}$. flash it runs out at $98.9 \%$ to $99.0 \%$, while at $165^{\circ} \mathrm{F}$. flash, it runs
from $86.2 \%$ for yeasts and molds, and $89.8 \%$ for total count. While efficiency percentages do not tell us the whole story, this test has demonstrated that germ destruction is very complete in the case of cream pasteurflash, is as about $10 \%$ of the germs present in the cream survive; if the cream were held at this temperature for 10 minutes it is probable that the germicidal efficiency
would work out about the same as in the other two cases work out about
butter flavor and keeping quality divides itself naturally into two parts; we concern ourselves with what goes with the nature and extent of the changes which take place in the cream. We have already referred to acid even this is frequently allowed to proceed too far, and fishy and metallic flavors are likely to develop in the butter made from high acid or over-ripe cream. The
work of Rogers at Washington has demonstrated the work of Rogers a suality of butter made from sweet superior keeping quality Injurious flavors and other by pasteurize cream.
having their own matter disappear. In the scoond place they are very sensitive to physical and chemical above $160^{\circ} \mathrm{F}$. Their other properties we need not refer to here. Enzymes are formed by living orgarisms; in some cases they are retained in the animal or plant cell where formed, whilst in others they are passed out into the surrounding mediums as required" The former the latter as "unorganized" ferments, this, however, was an artificial distinction which further knowledge of them has broken down. Rennet and pepsin, both engaged in digestive processes, are two enzymes which re well known to all.
peroxidase, reductase certain enzymes, for example, stances such as these that people refer when they speak of there being "life" in milk. Besides these enzymes at times we have others, possibly in considerable quantity in cream and so in unpasteurized cream butter, pro-
duced by the activities of bacteria, yeasts and molds. Their determination is a matter of difficulty, and we know less about them than about the living cells from which they come. We know that the higher pasteurizing temperatures
temperature of $145^{\circ} \mathrm{F}$. for 20 minutes does not. Their temperature of $145^{\circ} \mathrm{F}$. for 20 minutes does not. Their also the desirability of handling cream in which they have not been generated to any large extent, that is to say, fresh, clean, sweet cream.
"Once the butter is made, the
molds usually find conditions much less yeasts and moids asually find conditions much even to their existence than was the case when they were in the cream. They usually die off fairly rapidly, although at times certain species
may grow and multiply. When the cell dies and dia may grow and multiply. When the cell dies and dis
integrates, enclosed enzymes are liberated; this fact integrates, enclosed enzymes with butter spoliage, par may have some connection with butter spoliage, par-
ticularly in the case of raw cream butter where the bacterial content as we have noted is high. Occasionally, particularly in the case of unsalted butter, we find an
active mold growth in progress, usually working in
wards from the outside. part of every butter-maker's business, as the butter living spores before count as a test for effective pasteurization, the figures count as a test for effective pasteurization, the figures
obtained scem to indicate it may be of use for this purpose. Possibly in whole-milk creameries low counts would indicate pasteurization when the process has not been employed, but unfortunately, whole-milk creameries are conspicuous by their absence in Ontario to-day. On the other hand, high counts might indicate non-
pasteurization where the cream had in reality been pasteurized, but due to inefficient operation, numerous germs had survived, or else by recontamination, the mold and yeast content of even effectively pasteurized
cream had been increased considerably before the cream had been increased considerably before the
butter was made. Butter made from cream handled butter was made. Butter made from cream handled
in such a way is not entitled to be classed as pasteurized cream butter; the line has to be drawn somewhere and the
besides.
yeasts and molds is known concerning the relation of yeasts and molds to.butter flavor and keeping quality, have recently showri the injurious effect produced by the growth of Oidium lactis and other molds in the cream. While butter containing numerous yeasts and molds may give good commercial satisfaction at times, creameries are coming to recognize the fact that butter with a low mold and yeast content, indicating efficient pasteurization and use of sanitary methods preventing recontamination, is a better risk, on the whole than

## The Dairy Herd.

To possess a fine herd of cows is, or should be, the aim goes without saying that a herd poerfect in every respect and with none of the shortcomings of the average one is not got together in a day nor yet a year, but when this end has been finally attained it constitutes an A dary is kept for profit. it should A dairy is kept for profit; it should therefore be the profit each cow is making for him. It is a matter common occurrence to hear a farmer say, pointing out
at the same time an individual member of his herd, ing this, a practical man is tho of the others." Hearing this, a practical man is apt to ask himself the
question, "Why not have the entire herd up to the one A good cow costs no more to keep than a poor one;
indeed, if the extra output of milk given by indeed, if the extra output of milk given by her is con-
sidered, not nearly so much, and yet in many sidered, not nearly so much, and yet in many dairy herds numbering two or more score animals, it is by no
means an unusual thing to find ten or a dozen indifferent milkers.
be rigorously weeded out, and the heifer cows should the best milkers carefully reared. By this means and the use of a pure-bred bull, sound, and from a good at a minimum of cost, and a profitable herd built up with careful treatment, with a judicious additions from time to time and périodical weeding out wheneve necessary, will maintain. It has been rightly said that point must not be lost sight
there is a considerable amount of truth adage, and dairy cow is an animated machine, by whose agenc or food, which must combine quality with pinched for a badly-fed cow cannot produce good milk quantity ing to experts, the ration for a milking cow should contain five parts of heat-giving material to one part
of nitrogenous or flesh-forming matter. Proper feeding is as necessary to her as suitable fuel is to run a is as necessary to her as suitable fuel is to run a
specially constructed engine; the best stock cannot be
kept up to a high standard without proper manage kept up to a high standard without proper manageAs good feeding tends to increase milk production,
so does good milking. Rapid but gentle milking makes so does good milking. Rapid but gentle milking makes
a wonderful difference in the quantity got from a cow.
To a practised hand the task is a pleasant cow no less than the milker; and a milker who cannot milk properly and quickly should not be permitted to
spoil good cows, for this is the ultimate outcome of bad and careless milking is left in the udder, the milt milked clean ceptibly, but none the less surely, begin to diminish in secretive activity; whereas, by the removal of the last
drop of milk in the udder, the glands are stimulated to creased. The strippings, as the last drawn milk of a cow are commonly termed, are much richer in cream
than any of the other milk, so that there is a double advantage in milking clean. When milking, the teat
should be grasped in the hand, emptied of milk, then relaxed, and an upward jerk or dunch given to the
utder, similar to the motion made by a calf when suck-
ing. This excites the glands, and induces
and has no fear that her milker or anyone else wil
hurt her. A regular hour should be fixed for milking and, if possible, always adhered to ing the dairy utensils should be and also for wash ing the dairy utensils, should be absolutely pure, as
the quality affects both the health of the cow and the wholesomeness of the milk. A good milker needs 11 to 12 gallons per day. In winter, if the cows are given all their drinking water in the cowhouse or yard, it is from being temporarily lowered. It is essential that the cowhouse, especially in winter, should be warm, clean and comfortable. The cow appreciates and re guires comfort if she is to do her best. There are a teast four cardinal points to be observed, then, in deal tity, pure water, comfortable housing, gentle treatment It is well to give an occasional brush, down to keep the hides of the animals clean and in nice condition. The practice of wiping the udder with a clean cloth before
beginning to milk should invariably be followed, as also washing of the hands on the part of the milker also washing of the hands on the part of the milker.
Sanitary science is a thing that the owner of a success-
ful dairy cannot afford to neglect.-Live Stock Iournal

Handling Cream and Milk.
Cooling milk and cream on the farm promptly and properly would prevent to a large extent the en
ormous waste which ocurs every yeart Cramerios often may be obliged to return to the farmer any milk or cream that is about to sour. Part of the returned
milk is fed to live stock, and frequently the remainder milk is fed to live stock, and frequently the remainder accepted by creameries is in poor condition and cannot be manufactured into the best grades of butter. More than 85 per cent. of all the milk and cream
sold from farms is produced in sections where natural sold from farms is produced in sections where natural
ice can be had for the harvesting. Therefore with the ice can be had for the harvesting. Therefore with the
proper use of ice at least 85 per cent. of the milk and low that they will reach the dealer and the consumer in good condition. of bring about a general improvement of the milk and cream supply it must be cooled promptly use of the cooling farm would result in great improvement in the evality of milk and cream and at little if any additional cost.
development of bacteria in milk
only Milk as it leaves the udder of the healthy cow contains handling and bacteria, but others are added by careless rapidly in warm milker methods. Bacteria multiply undesirable fermentation. No matter how clean, how clean the utensils, milk will soon deteriorate in quality and soon contain many thousands of bacteria milk from the stable air, but by far the greater number come from unclean and unsterilized utensils, and the dust and dirt that fall from the flanks and udder of the cow during milking. Even though produced under the best conditions, milk just drawn always contains a few bacteria.
Bacteri
slowly in cold than in warm rapidly much more from the cow milk has a temperature a little above 90 degrees Fahr., a temperature at which bacteria grow ment of bacteria is well illustrated by two developmilk, one of which had 280,000 and the other 16,400 bacteria per cubic centimetre at the beginning. Each were set away at certain temperatures to determine what high-bacteria sample set at aerore the mik soured. The Fahr. soured in 12 hours, while the at the same temperature kept sweet 36 hours When kept at 40 degrees Fahr. the high-bacteria sample soured in 180 hours, while the low-bacteria sample sented milk of ordinary quality-bacteria sample reprethe smaller number was representative of containing higher quality. The effect of low temperature in
If cooling is delayed bacteria may develop rapidly is eventually cooled to a low temperature the milk farms where only a few men are employed, milk is often
kept in the barn for an hour or more before being cooled he milk is drawn before it may be several hours after growth of bacteria. This condition is especially true wh 55 degrees Fahr. or higher and ice is not used drawn from the begun immediately after the milk is Prompt cooling necessitates the immediate obtained. milk from barn to the place of cooling, which also good practice because it shortens the time that mill exposed to the air of the barn. Since, in general lowered, the more rapid the drop in temperature is

## KEEPing milk cold during shipment <br> In KEEPing milk Cold during Shipment

In order to be kept sweet, milk should be protected
at all times from high temperatures. A large percentage
of the milk supply for cities is delivered at the railsod station hy producers although some is haule railroad to the city. Even under the best conditions milk that is
transprorted during hot weather is usually several degrees
the railroad it is held from a few hours to all day, and low temperatures, there is a further rise in temperatare That is the case when milk is shipped in baggage cars or milk reaches the city consumer in. To make sure that it should not only be promptly cooled to 50 best condition or below on the farm, but also should be protected din, ing shipment. Precautions that prevent milk from be coming warmer during the summer also protect it from frezing -during excessive cold during the winter. I at temperatures of about 40 degrees Fahr maintaine cooled to about that temperature before shipping carload lots. If the cars are opened at several stations temperature. Even in more difticult to maintain a lov ice is placed on the cans, the temperaturere cracke is lowered very little in transit. When a care of the mil manner stated, a large part of the cooling effect ecsane into the air and is lost when the car is opened to receive milk.

SPEC
To illustrate the importance of protecting mill milk cooled to 44 degrees Fahr, were hauled a cans o of 13 miles from a farm to the railroad station. No was an insulated can, No. 2 was an ordinary unprotecte with a half-inch felt jacket elt jacket, No. 3 was covered unprotected can. During the trip the milk ordinary sulated can rose one dgree, the milk in the cane in tected with jackets rose 6 degrees, and the milk in tho unprotected can rose 20 degrees. The cans were then shipped by rail in an ordinary baggage car for more than degress Fahr., in order to study the effect on about 80 In the unprotected can the milk had reached a tempera ture of 60 degrees Fahr., when it had travelled about 10 miles from the farm (before reaching the railroad, the milk in the can covered with the half-inch jacke the can covered with the one-inch jacket travelled about 332 miles before reaching 60 degrees Fahr., and the milk in the insulated can did not reach 60 degrees Faht until after 650 miles of travel. By the use of a half inch jacket it was possible to ship an individual can
of milk 26 times as far as in the ordinary can before the temperature rose to ${ }^{-} 60$ degrees Fahr, the one th jacket increased the shipping distance 33 times, and the insulated can 65 times that of the ordinary can, degrees Fahr., very rapidly at temperatures above 60 temperature and preferably below be kept below tha

## POULTRY.

## Poultry Pointers.

The Dominion Poultry Husbandman, F. C. Elford, gives the following pointers re the marketing of poultry; is ready. The sale of eggs onforms to this rule better than does the sale of meat, or the bulk of poultry meat is sold within a few weeks in the fall. One of the
reasons for the reenlar sumen in mice ill the of the cause so many hold all the poultry they have for sole cause somany hold aht the pooltry they have oro sale
untit that season, whereas it would be better if sold When ready any time during the year.
Though the summer months may not be the month in which there is the greatest proportion of poultry meat
for sale, there is considerable which can be disposed of of betweem July and October. Among these may be enumerated the following, coming harg thesese may ber of
readinese-Cock birds, hens, broilers, preen duclds and be As a rule where one is situated near a good market will bring a better price than the same $b$ irds $m$ migh bring in the fall as roasters, and the feed, room and trouble are saved during the summer months. The
only time to sell Leephorn cockerels is when they reach about two pounds each in weight. The only time to sell ducks proftably is when they are from ten to twelve weeks old. That covers the
period of cheapest ploduction period of cheapest production. Usually a green duck
will bring as much per bird as a duck in the fall, and The bulk of young cockerels wils kept until fall and sold as roasters, no doubt, still be posed that every person is in a position to dispose of them as broilers
special crate feeding none goes off the place withoot special crate feeding. The finishing touches pay best
and the farmer who
markets poor cockerels is de-
 Crate feed for three or four weeks before killing, and in the killing and marketing, follow directions given in
Bulletin No. 88, Experimental Farm series, which may be had on application. The time for culling is always now. Whenever you
see a bird that is not doing well, pick it up and put it see a bird that is not doing well pick pit up and put it
into a crate Mave surue that it is feshed, and then
bivi
 ever you see anything that needs everling. day, oree the Dirds growing throughout the summer. Give them Look out for lice and mites. Spray often with a

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October 9, 1919

Balancing the Poultry Ration. The best results from the feeding of any kind of live stock are obtained where good care is given and
he feeds well selected, both for variety and nourishthe ent. Many people who keep hens for egg production
meem to think that if the hens are fed some wheat once or twice a day and given a drink of water, they
will pick up the rest of the feed they need. $*$ Those who are successful in getting good results know better than season when eggs are high in price and difficult to pro-
duce at a proft. a preat deal depends upon how a bird is fed as well as upon how it is bred. In the summer, when the flock is running at large, the birds can cer-
tainly pick up a great deal of feed of the kinds that they need, but in winter they are cut off from this supply,
and opportunity must be provided for them to get it. The necessary kinds of feed for laying hens are:
main, meat, mineral matter, green feed and water. In addition, there are certain well-known accessories
gren ercise, , grit and good judgment as regards the selection,
quantity and form of feeds. It must be remembered first that good laying hens never have an excessive
amount of body fat, but that a certain amount of body fat is necessary. Many flocks do not lay because they are underfed, and a hen that is thin requires about and
the feed she is likely to get in order to keep alive and healthy. Naturally, therefore, there will not be much left over for the production of eggs, the yolk of which is
about 60 per cent. fat. At the same time the hens must get plenty of exercise or they become too fat and cease She is continually scratching; she is up early and late; and the heavy work she is doing in feeding and exercising, is all necessary in order to provide the raw ma-
terials for the heavy work her organs are performing in egg production. At the same time she is keeping in
good health and in trim for the heavy strain upon her good he
Then, too, the working hen needs plenty of grit.
She has no teeth, and her food must be ground up in the gizzard by means of mucsular action and such gritty substances as she can get. Theretore, real sharp and
hard grit is an absolute necessity to good digestion. The feed must all be ground up in the gizzard before until it becomes soft and this is a very slow process
and not by any means efficient when one considers that egg production depends upon the quick and thorough digestion of large amounts of feed. A A oood quality
grit should be before the birds all the time. Variety and fresh water in abundance are further
essentials to the proper use of feed, and must be well looked after. The hen's body is 55 per cent. water and 65 per cent. of the egg is water, so that, in addition
to what moisture there is in the feed itself, the hen
should be liberally supplied with fresh water. A flock should be liberally supplied with fresh water. A flock
of 100 good laying hens will drink as much as a twelvequart pailful of water every day. Variety is no less
important, because it adds palatability to the ration and enables the birds to do a certain amount of picking
and choosing. By increasing palatability, digestion is also helped. Of the different kinds of feed, grain is probably the most important, since a hen could probably live
longer on a ration made up solely of grain than of any Ionger on a ration made up sotely of grain than of any
other material. Grain is a natural food and as a result, therefore, the bulk of the ration should be of grain.
Corn, wheat, oats, barley, peas and buckwheat are each ' used successf, buly forl, foeas and poultrywhot but their
use depends somewhat upon the purpose for which the ase depends somewhat upon the purpose for which the
birds are being fed. Corn is fed largely, but is very Cattening and, therefore, should not be the sole grain
fed for egg production. All classes of poultry are fond
of corn and will eat it very readily of corn and will eat it very readily, Wheat, however, is a somewhat better feed for poultry, since it provides
in itself a more perfectly balanced ration. For this
reason wheat and satisfactory groups. of feeding stuffs for poultry. Oats can be fed economically if the percentage of hull is not
too large. Birds will eat oats with tonsiderable relish. too large. Birds will eat oats with considerable relish.
Barley is fairly satisfactory and usually economical, but buckwheat and pasa are generally too expensive.
However, peas are a rich feed and desirable if they can be fed economically. Buckwheat is rather fattening and must be used with discretion. Generally speaking, ground grains are prefereable to whole grains for poultry,
and actual experiments have shown that the product of birds fed ground grains is worth about one-third more than the product of birds fed whole grains. Mored Movere,
the difference between the value of the product and the cost of Teed is considerably greater where ground grains are fed than where grain is fed whole. The difference
is largely in the fact that ground grains require less is largely in the fact that ground grains require less
energy for digestion, but one must not forget, the the
same time, that if birds are fed too liberally of ground grain and are not forced to to tane sufficient exercise,
ill health will result from a too-highly concentrated ration. Good jusdment must be used in this matter
as in everything else, and it is usually found to be good practice to feed grain both ground and whole or cracked, the former in the form of a dry mash fed from a feeding
tho freme hopper, and the latter thrown in the litter. Where
extra effort in egg production is desired, a wet mash
fed two or three times per week will be found advantagcous.
Meat or animal feed is essential, and can be proMeat or animal feed is essential, and can be pro-
vided either in the form of sour milk, if this is available,
or or in the form of meat scrap. Meat is a natural feed
for poultry, since on the range they will pick up worms and insects in large numbers. Meat scrap may form
as much as 5 or 10 per cent. of the total feed, and may as much as 5 or 10 per cent. of the tota,
readily be fed mixed with the dry mash.

THE FARMER'S ADVOCATE

Different feeds contain varying amounts of ash or
mineral matter, and at different ages birds require minnerant matter, and at different ages birds require
diferent quantitites of this material. Eight per cent.
of the eegrand of the egg consists of shell, so that considerable amounts
of mineral matter are necessary if soft-shelled eggs are to be prevented. Oyster shell, or ground bone should eating is a natural result of soft-shelled eggs.
Green feed in some form is
hens', otherwise some form is quite essential for layin production will decrease. Sprouted oats, mangels, silage, cabbage, rape and beets are all good. Onicns
are also good if fed sparingly so that they will not taint the eggs.

## HORTICULTURE.

## Are Apples a Success in Eastern

 Ontario?Ontario apple growing is ar present the conclusion that Ontario apple growing is at present in a rather chaotio
state. Chief of these is, perhaps, the fact that during the war years-and 1014 mayy fairly be counted as one of them so far as the conditions affecting production are
concerned-the whole fruit industry has been very seriously deranged. To some extent, but not entirely contributory to this condition of unrest, is the additional fact that for years the labor situation on our farms has been steadily growing worse; with the natural result that upon our mixed farms, where the bulk of Ontario apples
are produced, there has been evidenced a steadily increasing tendency toward neglect. The tide of neglect was for some years successfully stemmed by a campaign on orchard education backed by a policy of demonstrations to show the possiblity of securing handsome
profits from efforts expended on the care of the farm profits from efforts expended on the care of the farm
orchard. Some good crops coming simultaneously with this campaign and the rapid spread of co-operative marketing, each served to make farm orcharding more attractive than it had hitherto been and, for a while, so far as apples were concerned, the ontario fruit
industry was in a promising condition. Whether,
greenish yellow in color, with white Fameuse fesh and
Fameuse texture, very successfully. But he reckoned without the market and the discriminating eye-taste of the consumer who
fills his stomach by sight and frequently buys Ben fills his stomach by sight and frequently buys ben joys of anticipation are greater than those of realization Despite their handicap for commercial and economical production, both Famuese and McIntosh have east of apple varieties grown anywhere in the world. of apple varieties grown anywhere ins. These splendid varieties Nature has admirably gifted with abundan hardiness for natural conditions of growth, even in such cold parts of Canada as and Quebec. But when the commercial grower takes then outhods of tillage, fertilization and pruning, the margin me safety from cold is often reduced to nothing and winter injury results. Many old orchards of Fameuse and McIntosh are gone or going from
and they are not being replaced.
Only a few days ago a representative of "The Farm er's Advocate" was able to visit the farm of Harold Jones, in the county of Grenville, and fronting the
River St. Learence ducted, tas. in fact, still does conduct, although on ducted, and, in fact, still does cty test station for the muct reduced sarts ' of Agriculture. While he has 260 acres of land and maintains a herd of 17 cows, the orchards are still his favorite care. The writer was
informed that for 35 years Mr. Jones himself has held informed that for 35 years Mr. Jones himself has hel the nozzles, at spraying time, without a miss. He
began spraying in 1884 and has gone through the whol began spraying in 1884 and has gone He has used sal and water, lime and water, Hour and Paris green,
Bordeaux mixture and more rechtly, lime and sulphur Bordeaux mixture and more recently, lime and suphur and sulphur have been used and are giving good result and sulphur have been used and are lost between 8200 and $\$ 300$ this year, on a small crop, because of in sufficient power from his sprayer during spraying time.
Naturally we were interested in knowing the opinion Naturally we were interested in knowing the opining of this veteran grower as to the future of apple growing
in Easten Ontario, and particularly with reference to


Many Ontario Farm Orchards Have Suffered from Neglect.
at the present time, a strong effort put forward by organized rruit growers could again be successful in trans-
forming neglect into improvement and progress is a debatable subject, about which we would feel safer not to venture too strong an opinion. it nut we socesary for fruit growers to take some decided it is necessary for fruit growers
stand with respect to the development of the industry Growers who are straight commercial fruit grower should have the welfare of the industry most at heart and it is sometimes necessary to back up government
officers by plain statements of policy on the part of officers by plain statements
the organizations interested.
So far as the Eastern part of the Province is con cerned, Nature and chance have both blessed, as wel as frowned upon, the fruit industry there. It is conceded by all, we believe, that nowhere in Canada can
Fameuse and McIntosh be so well grown as in Eastern Fameuse and Mclntosh be so well grown areed that at
Ontario and Ouebec. Nature has decreed least the McIntosh shall have been brought to light therein, and that the Fameuse should shed its brightness and quality for many, many years from the banks of the
St. Lawrence, before its general introduction into other fruit-growing areas as a commercial variety. Further fruit-growing areas as a commercial variety. Further
more, the season in Eastern Ontario is of almost exactly the right length for the highest developmen of the Fameuse and McIntosh. Still another factor is the fact that both varieties are very havdy Maxed ingenuity and intelligence have been severely taxed,
however, in order to
overcome the severity of the winters' cold and the vagaries of the growing season Both of these native varieties have one serious defect (for defect it is despite the oft repeated and justifiable claim that it is a spur to improved methods) and that is
their susceptibility to scab. Many years ago, when their susceptibility to scab Many years ago,
modern fruit growing was but beginning, the late modern fruit growing was
Professor John Craig, became much enamoured of a certain variety belonging to the Fameuse family, the
name of which we cannot recall now, but which was
the production of McIntosh and Fameuse. He is still confident and proves it by pointing to young trees of of four acres now being pulled out gradually, Mr. Jones told us that for twenty years this orchard returned him an average of $\$ 200$ per acre for his labor and investment after deducting the cost of fertilizers, spray materials, barrels, freight, commissions and all such items. As mentioned above, this orchard is gradually being pulied
out, but in 1915 young McIntosh were planted in out, but in 1915 young McIntosh were panted
vacant places and between the remaining old trees so that when the last of the old trees are removed he hopes to have a young orchard beginning bearing. Records have been kept of the cost of planting the young trees and
the cost of caring for the orchard, as well as of the revenue from the old trees from the time the young ones were set out, with the idea of finding out whether the crope from the old trees will pay for the cost of rearing the younger ones to bearing age. Both are growing in
sod and are being fertilized at the rate of a load of barn yard mand yard manure to every the trees ine ounderg trees come into bearing. Not a single McIntosh tree was lost as a result of the extremely severe winter of $1917-18$, but from the fact that a little second growth is evident this year,
even in a sod orchard, it is natural to conclude that a even in as sod orchard would be better.
We believe that as a commercial proposition, both Mclntosh and Fameuse can be grown to good size and free from scab in Eastern Ontario and also that they can be secured, from killing- Certainly they can from abnormal winter killing. Certainly they can be
grown with the best of flavor and color. So far as grown with the best of farieties are concerned the same applies, but no other varieties suitable for the district can boast of the same quality. It is possible, however, to selec
several of the hardier kinds that are wortha place in several of the hardie
commercial orchard.

THE FARMERS ADVOCATE

## October Fruit Conditions

 with the exception of possibly a few late varieties peaches, pears and grapes. The .October fruit crop ment of Agricult the Fruit Commissioners Office, Depart for plums and peaches were very nearly correct. With regard to tender fruits the report says: "The grape crop will probably be a record cne in the Niagara Peninsula. About half the crop was harvested by the $\mathrm{e}_{\text {nd }}$ of September, and the balance will be all moved good crop of phort time. There appears to be a fairly Niagara; Kieffers are about the only important variety yet to move. In British Columbia the commercial pear crop is excellent, and reports are about as favorable as those covering the apple situation." marizes conditions as follows: "The principal change to be noted since the publication of our last report, is the improvement in prospects, both in the Annapolis Valley of Nova Scotia and in the Okanagan Valley of British Columbia. The latter district will produce a record crop, and the yield in Nova Scotia will about equal the record crop of 1911. So far as quality is concerned, conditions in Nova Scotia are none too good, apple scab being quite prevalent throughout the Valley. The percentage of low-grade fruit that will be marketed has, however, been appreciably lessened by heavy purchases for evaporating purposes. No materialchange has taken place in Ontario during the past
month change has taken place in Ontario during the past
month. Frequent rains have been of great benefit
in sizing up the fruit in sizing up the fruit, and in all districts apples are reported to be coloring well. Apple scab, codling
moth and side worm have affected the quality of the moth and side worm have affected the quality of the
fruit in many districts,
to domestic and Nrades are running largely Regarding the increase in prospects for the Nova
Scotia crop the report says: "Estimates of the apple
crop in the Annapolis Valley have varied crop in the Annapolis Valley have varied greatly, and
it is very difficult to arrive at even an appron figure. It seems, however, that our September figure
of $1,250,000$ barrels for the total crop will almost equal that produced in that Allowing for local consumption and for fruit used by evaporators, canning factories and cider mills, there is
probably sufficient fruit erobably sufficient fruit on the trees to warrant our
estimating the surplus available for shipment out of
the Province, the Province, at almost $1,500,000$ barrels. This increase
during the past few weeks has been due to the remarteabe growth of the fruit, encouraged by favorable weather
With control priccs in effect in Great Britain Nova
Scotia growers will need to do some careful marketing this year. Evaporators have taken large quanketing
at prices ranging from $\$ 1.50$ to $\$ 2.25$ per hund at prices ranging from $\$ 1.50$ to $\$ 2.25$ per hundred quantities
and export prices must be at least $\$ 7$ per barrel this price, sirce it costs at least $\$ 4.50$ per barrel to equal barrel of apples across the ccean. Growers so far have
shown a tendency to hold their fruit hope of a better market, but transportation is a far space should be allowed to sail without that avable being filled, for fear of a shortage later on that space use this year for the first time 100 -quart apple barrel, in statement from J. Forsth Smith, Canadian Fruit
Trade Commissioner, Liverpool, who says Trade Commissioner, Liverpcol, who says as follows:
"It is satisfactory to learn that very few of the old this season, as it would be much more difficult to get buyers to give practical monetary effect to the fact that proportion of arrivals were packed in the old barrel. enerally, if all small barrels countage of the shipper potatoes or for the home market. During this season also help greatly if all standard barrels were so it warled also help greatly if all standard barrels were so marked
in conspicuous letters. On this side, steps will be takn by circular and otherwise, to impress upon
fact of the buyers the act of the greater value now offered them." buyers the
The following observations are made certain that the Okanagan Valley will produce "It seems apple crop in its history. The serious shortage of water
earlier in the season was relieved earlier in the season was relieved at the critical moment
by rains, which saved the situatione by rains, which saved the situation. At the present
time general conditions are all that could be desired.
The fruit is and color generally." The following interesting summary of the potato
situation is also given: .The latest report of the
Dominion Bureau of Statistics showing the condition of potatoes by provinces on August 31, 1919, has just
been received. For comparative purpose average yield for the past ten years at 100 it places the
for this year are as follows: Prince Edward Island 100
 89; British Columbia, 86 ; and for the wan, 87 . Ablererta,
91.

-


early potatoes are concerned, the crop has been prac
tically a failure. Estimates of the Provincial Depart ment of Agriculture placed the acreage at 154,820 acres,
as compared with 166,203 acres in 1918, so that the as compared with 166,203 acres in 1918, so that the
actual production in the Province prcmises to be cur-
tailed both by a smaller acreage and a lower yield per ${ }^{\text {acre }}$ iIn New Brunswick the crop in the St. John River section has been quite seriously affected by late blight,
and some fields are not worth has been brought about by wet weather during the earlier part of September. Yields in the Woodstock
district $(\mathrm{N} . \mathrm{B}$.$) vary greatly, some farmers reporting$ 120 barrels to the acre, and others practically none caused by thed that crop failures in this district late blight has deverloped but not to a serious ext

## FARM BULLETIN.

The Session of Parliament Nears an End.

## Unless the unexpected happens, Parliament should

 prorogue this week, probably on Friday or Saturday quite easily, with the exception can be disposed of Service Re-classification Bill, which was just the Civil last week, and will, in its present form, prove by no means satisfactory, in our judgment. The Governmer.t for some time now has been endeavoring to introduce $i_{n}$ their efforts to Civil Service, and seem to be sincere long ago a Civil abolish political patronage. Not so take charge of all appointments and other matters relating to the filling of vacancies within the Civil Service. The number of civil servants in the employ 60,000 to 00000 Government is estimated at from about any, 00 , and it can readily be seen that to bring very la ge number of employees requircs a long time and a great deal of work. There were, and still are, a very large number of cases where two employees doing similar or comparable work were receiving] salaries that are altogether unlike, and for this reason it was deemed advisable to reclassify the Civil Service so as to bring down the salaries of certain employees who are the salaries bring up to a more reasonable standard firm of others who are now underpaidhis matter in hand report was presented at the last session of P garble It was entirely unsatisfactory and particularly so from the standpoint of agriculture, where, in a very great many cases, salaries were much too low to induce men of the necessary ability and training to take service was in the Department. The whole service, however Consistency shown by this manifest unfairness and init was easily seen before the close of the result that that the report would never be approved by the House meantime some the form in which it then was. In the to make some improvement in the by the Government as to smooth out the inconsistenciec Classification so salaries for certain positions. We are not prepared to speak with reference to other Departments, but knowing as we wartment of Agriculture is concerned,
lo great many of the agriculted officers of the Dominion Government, and knowing also
the difficulty which the difficulty which the Dominion, Government must experience in securing men of the proper calibre for any
responsible position that we feel that in a great many cases the salary should be
more generous and that it is tion is even now cathat is doubtful if the re-classificahas been put on it since the last session the work that The idea is too prevalent that session: positions draw large salaries for doing nothing. This Government salaries, as a rule, are lowrect impression. ment employees need not work hard and while Governinterested in their work and choose to do so they are found that most of them do all that could be we expected
under the circumstances, andl many of them a deal more. It is perfectly true that there are certain present opsitions bovernment who were placed in their
litsle else but ditical influence, and who such else but draw their pay. There are anded several -but we have it on them in very responsible positions because it wat impen replaced by better men simply great harm, to the service, and are almost ent men do re-
sponsible for the common impression referred to above
 dispustirg to know that certain members of the House
of Commons still argue strongly against the abolition
of patronage.

Edwards of Fruntenar Ed Peterboro, Crothers of West Elgin
on
more more or less flatly in the debeste, damin, all' came ournt
reform and eulogiving thil Service reform and eulogizing the old patronage system wiver
equal fervor Such men very eviden
the the service except as the pory evidently know lo mattle of ment gives them prestige within the limits of their
own ridings. Honorable A wint the Bill through the House now, said that the pis pioting caaure of the Bill was the request through Parlincipan
to ratify the classification of Civil Serig by the Civil Service Commission in pursuran prepared Act of 1918. Whatever may be done with the Bif the
the House mission can amend the classification Early Early in the week there was some discussion on
sill to amend the By-Election Act passed lant
summer Serios summer. Serious complaints have been received liast
British Columbia in connection with the recent tion in large numbers of Orientals ir recent registraunder the terms of the Act rassed last session. The
difficulty arose. from the difficulty arose. from the fact that under the laws of
British Columbia, Orientals are not eirtitled and there was much indignation not the thought that the, federal laws. would over-ride the wishes of the the of the Province. Honorable Hugh Guthrie the people introduced a Biil to the House of Commons amendin' the Act of last session so that it would not intending
with any Provincial Act with any Provincial Act now in effect. A few of the
Opposition defended the Orientals but a great deal of discussion. Sir Sam Hughes was not to take up some time of the House airing his complaind that there was a conspiracy to destroy him. He made Cabinet and Sir Arh ur Currie aut members of the Cabinet and Sir Art ur Currie, but as he continued to
speak the House gave him fewer and fer Sir Sam's spirit was in no wise daunted and listeners. standpoint of pure excitement it' is too bad that he is such a poor speaker. It was very difficult to hear
him, and he speaks in a most tiresome monotce. the . D. Mckenzie's motion for an investigation into of elections or ballot switching and fraudulent winning Bureau, Three Rivers again resumed. Hon. Jacquee attack on Hon. Arthur Meighen, Minister of th political during this debate, and made some startling allegatior, with regard to ballot switching in Nova Scotia, particurepresented by consistuency of Cumberland, the riding that 240 men in the 208th Battalion of , for instance, in constituencies where they were There were several disagreeable incidents in c nnection
with this early Saturday, but on a vote which finally was taken investigation was defeated by 79 Mc 56 nzie motion for is a comparativcly small vote and shows that anter alif was not regarded as one of tremendous importance
even by all members even by all members of the Opposition.
The Bill introduced by Donald Sutherland, South fexoin, to add bran and shorts to the list of foods and
feding stuffs included in the Adulteration Act kiven its second reading on Wednesday October 1 very lax in dealing with the adulteraveriment had been stuffs in as much as very few or no prosecutions had
resulted to resulted todate. The Bill is very simple in effect, hut,
neverthelcss in nevertheless important in as much as by providing that
to adulterate bran and shorts in any unlawfulterate bran and sontrorts in to the prove way shall be ion Act, farmers can be certain that these two im-
portant feeds will not portant feeds will not contain anything but the products
of the wheat this Bill should not be given is no reason whatever why into effect immediately. As is whe have intimating and put there is a great deal still to be done in the wiy of im-
proving legislation with regard to animal feedira Farmers are now complaining that animal feedirg stuffs. quantity of the sormerts, thereby reducing the available quantery of the former feed and reducing the quality
of the e . The Bill just referred to will not be able
to prevent thi is prevent this action on the part of the millers, and it existence be revised and turned over tords Act now in of Agriculture for enforcment over to the Department the feeding standards forcement. At the present time great deal of criticism. This, in addition to the fact
that the standres that the standards are enforced by the Department ture and agricultural necessities is as sodedge of agriculteeth, tends to make necessities is as scarce as hen's
factory for standards very unsatisfactory for the farmer. The enforcement of revised
standards as well legislation as well as of the recently pe passed fertilizer legistation should be turned over immediately to the
Department of Agriculture, where there ought Somebody who knows something about the subject. As a matter of fact, there is now in one of the branches ready for introduction Agriculture an Act drawn up and with the control of feeding stuffs. It is timealing
farmers farmers were protected by some such. Act is this that to be, and our agricultural officials would do good work
for the lor the farmer if they were to introduce this or a better
Act into the House.

There will be a
Canada in the Tuessay, october City Hall, Ottawa, at It It a.m. is an
interested in the dairy in open meeting and all attend. The date dairy industry should endeavor to the Interprovincial Plowing Match for which special
rates have been advertised

Toronto, Montreal, Buffalo, and Other Leading Markets<br>Receipts and Market Tops.<br>

|  |  |  |  |  | Good | teers |  | Receipts |  | ${ }^{\text {VES }}$ Top | ice Good |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Same | Week | Week | Same | ${ }_{\text {Week }}$ | Week |  |  |  |  | Week |
| Toronto (U S. Y | $\mathrm{Octa}^{2}$ | 1918 | Sept. 25 | $\begin{aligned} & \text { Ending } \\ & \text { Ont } \\ & \hline \end{aligned}$ | Week | Ending | Ending | Week | Ending | Ending | (eeek | Ending |
| ntreal ( |  | 26 | 56 |  |  |  | , |  |  |  | \$17.50 |  |
| ${ }_{\text {M }}^{\text {Montreal ( }}$ (East End | $\xrightarrow{2,287}$ |  | 2,998 | -13.00 | 13.00 | 10.75 | 1,117 | ${ }_{655}$ | ${ }_{1}^{1,285}$ | 17.00 | ${ }_{16} 160$ | . 00 |
| Calgary | 3,730, |  | ${ }_{6}^{8,535}$ | -12.50 | -14.00. | ${ }^{11.25}$ | 671 | 576 | 763. | 13.00. | 12.00 . | 250 |
| ton | 1,515 | 2,753. | ${ }_{1}^{1,316}$ | 10.00 . | 14.05 <br> 13.05 |  |  | ${ }^{137}$ | 81 | 19.00 | 900 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Receipts |  |  | Price S |  |  | Receipts |  | ${ }_{\text {EEP }}^{\text {Top }}$ | ice God |  |
|  | Ending | eek | Ending | Ending |  | Week | ${ }_{\text {Week }}$ |  | Week |  | Week | g |
| onto (U. S . Y ? ${ }^{\text {a }}$ | 6,375 | 8,824. | S, | S18.00 | 1918 |  | ${ }^{\text {Oct. }}{ }^{2}$ | 1918 | Sept. 25 |  |  |  |
| Montreal (Pt.St, Charles) | 1,458 | 2,697. | 1,563 | .17.75 | 19.75.. | 18.25 | ${ }^{7}, 524$ | ${ }_{3,633}$ | ${ }^{7}, 052$ |  | 16.00 |  |
| Winnipeg | ${ }_{1,133}$ | ${ }^{1,567}$ | -1,189 | 17.75 | -19.75 | 18.25 | 4,282 | 2,469 $\ldots$ | 5,309 | 13.00 | ${ }^{16.00}$ |  |
|  | 618 | , | , | 17.50 | 19.90 | ${ }^{17} 7.50$ | 2,404. | 2,864 |  | ${ }^{13.00}$ | .00 | 50 |
| Edmonton | 149 | 440 | 186 | 16.75 | ${ }_{18.75}$ | ${ }_{1725}^{17.25}$ | ${ }_{1}^{1}, 316$ | 789 | ${ }_{32}$ | 0. | ${ }^{17.00}$ | 5 |


#### Abstract

Market Comments. Toronto (Union Stock Yards.) Cattle receipts for the week totalled




Thursday was 814.15. Sheep were un
changed from 87.50 to 89.50 per hundred change hog market held steady at the closing quotation of the previous week,
and looked a trifile firmer on Wednestay and Thursdy when a few decks of
andects sold as 818 per hudred selects sold at $\$ 18$ per hundred, and the
balance at $\$ 17.75$. Of the disposition from the Yards for the week ending September 25, Canadian
packing houses purchased 425 calves,
 10,119 lambs 1 Loar but chers purchased
258 calves, 317 butcher catte, 295 hogs and 1,533 ' lambs. Canctian catce, shipments
and
 241 feeders, 32 sheep and 139 lambs.
Shipments to United States points oonShipments to United States points con
sisted of 141 calves 89 canners and cutters
 315 feeders and 191 lambs.
The total receipts from January 1 to september 25 , inclusive, were 240,210
cattle, 52,432 calves, 272,979 hops and cattle, 52,432 calves, 272,979 hogs and
117,0877 sheper; compared with 198,938 catilie, 46,588 calves, 247,800 hogss and
63,669 sheep, received during the cor63,969 sheep, received duri
responding period of 1918 .

Montreal.
The combined offerings on the two
markets during the week amounted to
cattle, twenty-four hundred and forty four calves, eleven thousand and eight three hundred and sixty-five hogs. Trading in medium grade butcher cattle was slow until bulls and common cattle had averaged about. twelve hest cattle offered and were sold at $\$ 13$ per hundred, while cattle of slightly lower grading sold mostly weighing per hundred, good light steers being weighed up at the latter figure common steers sold in many cases from heifers $\$ 8.50$, a number of good quality stock was weighed $\$ 0.50$, while common eows sold up to $\$ 10.50$, and those of airly good quality around 88.50 : cows of medium quality were not as high as on and canning market. Cattle for boning to or a little stronger than those equa previous week. Two or three good bulls were sold for $\$ 8$ per hundred, and common calves sold at $\$ 5.75$ to $\$ 7$. Good vea were poor sellers or \$17. Grass calve to 7.50 per hundred with the majority
of sales at $\$ 7$. .
Despite the fact that there were nearly
twelve thousand sheep and lambs offered
during the week, the feeling was slightly
stronger, compared with the previous week's market. Top lambs sold at
$\$ 13$, and most of the fair to good lambs at $\$ 12.50$. One lot of very common light lambs sold for $\$ 10$. Sheep changed hands at $\$ 7.50$ to $\$ 8$
The best lots of select hogs sold at $\$ 18$,
off cars. Many of the hogs "offered averged on the light side, and for these, $\$ 17$ to $\$ 17.50$ was the ruling price. Sowis sold at prices $\$ 5$ per hundred lower than those for selecte. Packers were in-
sisting on a cut of $\$ 2$ per hundred from select prices on hogs weighing less than one hundred and fity pounds, of cars, Montreal.
Pt. St. Cuarles.-Of the disposition
from the Yards for the week ending from the Yards for the week ending
September 25, Canadian packing houses and local butchers purchased 1,024 calves, 216 canners and cutters, 713 bulls,
1,017 lambs, butcher cattlc, 1,563 hogs and 4,920 lambs. Shipments to United States points consisted of 201 calves and The total receipts from January 1 to September 25 , inclusive, were 34,180 cattle, 61,167 calves, 61,834 hogs and
45,071 sheep; compared with 35,018 45,071 sheep; compared with 35,018
cattle, 55,681 calves, 52,638 hogs and responding period of 1918
responding period of 1918 .
EAST END.-Of the disposition from
the Varde for the week ending September
25 , Canadian packing houses and local 25, Canadian packing houses and local
butchers purchased 1,268 calves, 2,870 butchers purchased 1,268 calves, 2,80 lambs. Canadian shipments were made up of 525 hogs. Shipments to United States points consisted of 547
28 butcher cattle and 2,613 lambs.
The total receipts from January ${ }^{1}$ to September 25, inclusive, were: 38,684
cattle, 45,225 calves, 42,991 hogs and
35084 35,084, sheep; compared with 33,249
cattle, 42,228 calves, 33,464 hogs and 24,723, sheep, received during the cor-
responding period of 1918 .

## Live Stock Notes

Under instructions from the Honorable Dr. Tormie, the Live-Stock Commisioner, posibilities last MacRae investigated the pace for live-stock movement to European with the Managements of obe most mportant ocean services operating
from Montreal and with two of the mos epresentative operating from New York The Canadian Companies have a few space on these is fully booked. All of the companies, however, recognized the European demand for live stock, acknowledged the advantage of Canada's active participation to take the necessary steps to urnish space, provided firm assurance Were given that business would offer They indicated their willingness to make in the United States.
One of the Companies interviewed in teamers in its service. catthe carrying stated that he was now in a position to hook space for sailings during October and $\$ 100$ for horses. He indicated these prices could be shaded somewhat iling Tracts covering two he other company suggested the cattle being carried rom.Sidney, Nova Scotia. This is being investigated.
Under the supervision of Mr. P. E.
Light, statistician of the Branch, a survey Light, statistician of the Branch, a survey the Provinces of the Dominion. An analysis of this survey shows clearly that there has been a distinct falling off in sows farrowed this spring and in sows
bred this summer. The conclusion which the Branch has reached as regards this survey, together with certain regardsuieting incidents which have been brought to light in connection therewith, have been
brought to the attention of Mr. O'Connor. brought to the attention of Mr. O'Connor.
We give it as our opinion that lower prices can be permanently obtained only on the basis of increased production. Increased production can never be realized esteadily remains both profitable and atthe shortage and high cost together with are already endangering the future of the hog industry in this country and preventing the expansion of an export
trade, the development of which is so important at the present time, in view
of the financial condition of the Domino The logic of the situation should be clear that the casses of under production must be removed before there can be
any permanent reduction, on an economic basis, of the present high onst of living.
Until this in price müst inevita any arbitrary reduction being forced up again by actual shortage in supply. Meanwhile, as would be the
case with a Miner's case with a Miner's strike in Britain, a
vital blow would be dealt at the life

The following cable was received this week from the office of the Canadian
Commissioner in
France:- "Law passed fiftenth granting credit to Minster
of War three millin horses." The Department promptly
cabled Paris with the view of ascertaining Canada's opportunity to secure a part
of this trade.

Cheese Markets




Toronto Produce.

Receipts of live stock at the Union October 6 , numbered 239 cars, 6,063 cat tue, 625 calves, 2,601 hogs, 6,306 sheep and lambe. Trade opened slow but soon
became active, all classes selling at stead became active, all classes selling at steady
prices. Best load of heary steers
 others selling at $\$ 11.50$ to $\$ \$ 2.40$ per
hundred. Cows steady, choice at $\$ 10$ to $\$ \$ 0.50$. Cows steady, choice at $\$ 10$ to $\$ 10.50$. Bulls steady, top $\$ 11.65$. Lambs
stronger, bulk at $\$ 13.50$. sheep and calves steady. Hogs, $\$ 18$, fed and watered.

## Wheat-Ontario (f.o.b. shipping points according to Ireights)-No. 1 winter, per car lot, 22 to $\$ 2.06 ;$ No. 2 winter, per cat lof, $\$ 1.97$ to $\$ 2.03$; No. 3 winter, per car lot, $\$ 1.93$ to $\$ 19$, NO

 lot, $\$ 1.93$ to $\$ 1.93$; No. 1 spring, per carlot, $\$ 2.02$ to $\$ 2.03$, No. 2 spring, per car
lot, $\$ 1.99$ to $\$ 2050$. lot, $\$ 1.99$ to $\$ 2.05$. No. 3 spring, pe northern, $\$ 2.30$; No. 2 Morthern, $\$ 2.27$, No. 3 northern, $\$ 2.23$.
Nats-Manitoba (In store, Ft. William)
 No. 2 feed, 791/4c.
William), No. $3, \$ 1.271 / 1 \mathrm{c} .4$. No. $4{ }^{1}$
W1.241/2; rejected, $\$ 1.13$; feed, $\$ 1.13$
outside) No 3 ario, (according to freight Barley, (according to freights outside)

Peas.- (According to freights outside)
No. 2, nominal Buckwheat (ac
side), No. 2 nominding to freights out Rye (according to freights outside) Flour-Manitoba, Government standard, \$11, (Toronto); Ontario; (in jute bags, prompt shipment). Government
standard, $\$ 9.40$ to $\$ 9.60$, Montreal and Toronto. Millfeed.-Car lots delivered, Montreal reights, bags included.-Bran, per ton,
S45: shorts, per ton
855 ; bag, $\$ 3.50$. $\$ 24$ to $\$ 26$; mixed, per ton, $\$ 15$ to $\$ 20$. Straw.- (Track, Toronto), car lots per
Hides and Wool.
Prices delivered in Toronto:
City Hides City butcher hides, green, flats, $35 \mathrm{c} . \mathrm{i}$ calf skins, green, flats, 6 green, $\$ 15$ to $\$ 17$; sheep, $\$ 3$ to $\$ 4 ;$ lamb skenf and shearlings, $\$ 2$ to $\$ 3$.
Country Markets
 take-off, No. 1, \$10 to \$11; No. 2, \$7 to $\$ 8$; No. 1 sheep skins, $\$ 2.50$ to $\$ 3.50$ horse hair, farmers' stock, 35 c . to 40 c .
Tallow. - City rendered rels, 9 c . to 10 c .; country solids, in barrels, No. ${ }^{1}$, 11c. to 12 c .; cakes, No. 1 ,
12c. to 13 c . Wuality, - Unwashed fleece wool as to quality, fine 59 c . to 00 c . Medium coarse,
50c.; carase, 42 .
Wool, washed, fine, 50c.; coarse, 42 c . Wool, washed, fine,
75 c .; medium, 70 c .; coarse, 65 c .

Country Produce.
Butter.-The market for butter showed stationary prices: choice creamery pound srints selling at 56c. to 58 cre; ; cut solids at 53 c . to 55 c . per Ib. and best dairy at 50 c .
to 52 c . per 1 l ., (wholesale). Eggs.- Trade in eqgat prices ranged somewhat wish active, and new-laid selling at 65 c . per dozen, and No. 1's at 57 c . per dozen.
Pure lard was easier in price, wholesale, selling at $321 / 2$ c. per 1 b . in tierces; 33 c . selling at $321 / 1 \mathrm{cc}$. per 1 b. in tierces; 33 c .
per 1 lb . in $20-\mathrm{lb}$. pails, and $341 / 2 \mathrm{c}$. per lb. Honey-Choice comb, $\$ 5$ to $\$ 6$ per dozen; strained, 24 ct . to 26 c . per 1 lb .
Poultry-Receipts of chickens and hens were heavy with prices on all
classes keeping steady. The quotations are for live weight, delivered, Toronto: Spring chickens, 20c.. to 23 c c. per
lb.; old hens, over $6 \mathrm{lbs}, 26 \mathrm{c}$. per
 18c. per lb. spring ducks, 4 to 51 bs s. 18 c per lb.; turkeys, 35 cents per lb. Wholesale Fruits and Vegeta
Receipts of home-grown fruits are
rapidly diminishing, with the excention rapidly diminishing, with the exception
of grapes which are still arriving freely. Potatoes materially declined; both
Ontarios and New Brunswick De selling at $\$ 2$ to $\$ 2.15$ per bag.

Wholesale Quotations

Apples- 25 c . to 65 c . per 11 -qt. basket
$\$ 4$ to $\$ 7$ per bbl. Peaches-50c. to
60. to 82 per 11 qts.
Pears.
> to $\$ 1.25$ per 11 qts.
Corn- 10 c . to 25.
C
> Celery 10 c. to 25 c. per dozen,

Cucumbers- Large, 25 c . to to 40 c . per
Cuct 11 qts.; choice 40 c . to 60 c . per 11 qts .
Gerkins. 60 c . to $\$ 1.25$ per $6 \mathrm{qts}$. ; $\$ 1$ to $\$ 2$ per 11 qts. Egg Prant. 50 c . to 75 c . per 11 ats .
Onions.- $\$ 4.75$ to $\$ 5$ per 100 lbs ; $\$ 3.75$ per 75 ibs.
 Potatoes-Ontarios, $\$ 2$ to $\$ 2.15$ per
bag; New Brunswick Delawares, $\$ 2$ to Carrots. $\$ 1.25$ to $\$ 1.50$ per bag.
Cal
Cal
Beets. $-\$ 1.50$ per bag.
Turnips.- $\$ 1$ to $\$ 1.25$ per bag.

## Montreal.

Horses.-Lumbermen have been buy-
ing a few horses and a fow have ben ing a ew horses and a few have been
going into the hands of carters, while
there has also been some enquiry from there has also been some enquiry from
farmers for the fall plowing. armers for the fall plowing. Prices
continued at about the former range, being $\$ 250$ to $\$ 300$ each for heavy draft, weigh-
ing from 1,500 to 1,600 lbs.; $\$ 200$ to $\$ 250$ each for light draft, weighing from 1,400
 culls, $\$ 50$ to $\$ 75$ and saddle and carriage animals, $\$ 150$ to $\$ 250$ each.
Dressed Hogs.-T The marker for dressed
hogs was a little below hogs was a llitle below prices quoted
a week ago. Salles of abattoir dresed hogs took place at 25 c . to 2 chic. per lb .
no country dressed being yet offered.
Poultry.-The time is approaching
when supplies will when supplies will commence to move into storage. Meantime, live poultry was 22 c. to 26 c . heavy fowl 25 c s, broilers, 5c. less for light: roosters 15 c to 17 c old ducks about the same price as roosters and young ducks about 2 c . more; geese
15 c. to 20 c . and turkeys around 35 c . per
Potatoes-Supplies are as yet mostly very little change, being, however, in clined to decline. Quebe stock, ex-
store, was quoted at $\$ 2$ to $\$ 2.25$ per 90 store, was quoted at $\$ 2$ to $\$ 2.25$ per 90
lbs.in ex-store, while 35 . per peck was still the
houses.
Honey and Maple Syrup-White clover comb honey was selling in small lots at
around 25 c . per 1 l ., while buck oney was 20 c .; maple syrup was quoted Eggs.-It was said that there have been receipts of American eggs in the Canadian market and it is possible that these have kept prices from advancing. Prices at
country stored were reported to be in the vicinity of 52 c . per doz. Locally, strictly selects were 64 c ., No. 1 eggs, 57 c . and No. 2, 52c. to 54 c . per dozen. B . the market was firm and practically pasteurized creamery, with $1 / 243$ c. less for dairy, foc. to 51 lc . to $533 / 4 \mathrm{c}$. and finest
Grain. -Sales vestern barley were taking place at $\$ 1.43$ for No. 3 Canadian western, $\$ 1.40$
for No. 4 , and $\$ 1.32$ for feed bater per bushel, ex-store. Car lots of oats
were were quoted at 97 c . per bushel for $\mathrm{No}{ }^{2} 2$ anadian western, 96c. for No. 3 C . W.,
and extra No. 1 feed; 95 c . for No. 1 feed and 94 c . for sample oats, ex-store. Flour.-No change took place during was $\$ 11$. Manitoba spring wheat flour Montreal per bil., in jute ex-track,
freights and to city bakers, winter wheat flour spot cash. Ontario
$\$ 10.50$ to $\$ 10.60$ per bbl., in cotton bags. White corn
flour $\$ 10.90$ in $\$ 8.25$ to $\$ 8.50$, jute bage and rye flour, market for mill feed during the week, prarket for mill feed during the week,
for shorts, in per ton for bran and $\$ 55$ lots were ' $\$ 1$ to $\$ 2$ above these prices delivered, a reduction of 25 c . being al-
lowed for cash
Hay.-The market for hay was nominal,
being, however, in the vicinity of $\$ 20$
per ton to $\$ 22$, ex-track, for No 2 Hides and Skins-Dealers reported the
and cow hides and 28c. for bull hide
75 c . per 1 b . for veal skins and kips. Lambskins were steady 50 , for to $\$ 2.25$ each, and clipped lambs, sit.25 to $\$ 1.50$ each, horsehides being $\$ 12.50$ each

## Chicago.

Hogs.- Heavy,
medium
$\$ 15.25$
15 medum, $\$ 15.40$ to $\$ 16.60$. light, $\$ 1.500$
to $\$ 16.85$; light lights, $\$ 15.25$ to $\$ 16.50$ heavy packing sows, smooth 814.25 to $\$ 15$; do rough, \$13.75 to \$14.25; pist
Cattle-
Cattele.-Compared with week ago
She beef steers 25 c . to 75 c , hivhe She stock steady to strong. Ferder.
and range cattle, 25 c . higher. Veal
calves $\$ 1$ lower. calves $\$ 1$ lower.
Sheep.-Compared with week aso
market for fat and good lambs mostly
85 c . to $\$ 1.25$ higher. Sheen and yearlity 85c. to 81.25 higher. Sheep and yeartings
25 c . to 7 cc . higher. Breeding ewes steady.

## Victory Bonds.

Following were the values of Victory
Bonds on the Toronto market Saturridy October 4: Victory Bond maturing 1922, 1923,1001 to 100 .

 Vonds maty Bond maturing 1937, $1043 /$ to
Vito
1047.

## Gossip.

Attention is again drawn to C. J. Stocks Shorthorn sale, to be held on
October 15, at his farm near Tavistock. Remember that C. P. R. trains connect
vith the Buffalo \& Goderich at Drumbo, and $G$ Buffalo \& Goderich at Drumbo, and . M.R. trains connect with the 11 o'clock a.m. Mr. Stock is offerint to the public the result of many years of careful breeding and selecting. Partic
ular care has been taken in the quality ular care has been taken in the quaity
of sires used Plan on attending the sale on Wednesday, October 15, at

Sale Dates
Kct. 16, 1919-Geo. H. Montgomery, Oct. 22, 1919.-Adam A. Armstro Oct. 22, 1919--Robt. Mitchell, IId 19.- Otario Agricultural College, Guelph.-Pure-bred live stock. Nov. 4, 1919.-Western Ontario signment Sale, London.-Shorthorns.
Nov. 5, 1919.- West Elgin Breeders' Shorthorn Sale, St. Thomas, Ont. Northorns. Nov. 12, 1919--Estate T. C. Hodglin-
son, Beaverton.-Percherons, Shorthorns and Shropshires.
Dec. 2, 1919-David Caughell, R. 8 St. Thomas.-Holsteins, farm stock, etc. Dec. 3, 1919- Niagara Peninsula, Hol-stein-Friesian Association,Dunnville, Ont
Dec. 17, 1919.-Oxford Holstein BreedDec. 17, $1919 .-$ Oxford Holstein Breed sale at Woodstock, Ont.

A state of society where the sense of
financial responsibility is weak, where debtors are in the habit of dodging, their ofligations, where the general sentimen encourages them in their dishonesty, men" are unpopular and cannot get justice, there we have an invariably munity is an unfavorable location for an honest and capable farmer, because money and credit are invariably scarce,
interest rates high, and prices low. Men interest rates high, and prices low. Men
with capital to invest, men of enterprise and forethought, who make the prosperity of a community, will avoid such surroundings. When such men are lacking, and there remain only those without any sense
of financial responsibility, men who hate everyone more prosperous and pro-themselves,-such aycori at least, unprosperous, unprogressive, a
reproach and a byword tamong more enreproach and a byword
lightened neighborhoods. were steady at d clipped lambs, 81.25 tot
hides being $\$ 12.50$ each.

## nicago.

 lights, $\$ 15.25$ to $\$ 16.50$ | ows, smooth, $\$ 14.25 \mathrm{~m}$ |
| :--- |
| $\$ 13.75$ to $\$ 14.25$; pige |

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75 c . higheet
high dy to. strong. F.eeden
tle, 25c. higher. Veal ared with week azo
and good lambs mostly Ser. Sheep and yeartings
er. Brefing ewes steady

## ory Bonds

e the values of Vietory
oronto market, Saturday ory Bond maturing 1923 Victory Bond maturing
1003 ; Victory Bond



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again drawn to C. . . . is sale, to be held o C. P. R. trains connec rains
rriving rriving at with the Mr. Stock is is offerin resuit of many years
and selectin en taken in the quality
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stan

## Dates

-Geo. H. Montgomery Que.-Ayrshires.
-Adam A. Arms - Robt. Mitchell, IIder -Ontario Agricultura -Pure-bred live stock. -Western Ontario Con-ondon.-Shorthorns.
West Elgin Breeders' Thomas, Ont Thomas, Ont
-Estate T. C. Hodglin-
Percherons, Shorthorn
-David Caughell, R. 8 steins, Carm stock, etc.
Niagara Peninsula Hol Nciagara Peninsula Holle, Ont. Oxford Holstein Breed-

## ety where the sense of bility is weak, where habit of dodg, ing therer the general sentiment sympathizes with and in their dishonesty, har and cannot get vorable location for an able farmer, because are invariably scare, , and prices low. Men vo make the prosperity men are lacking, and those without any sense sibility, men who hate prosperous and promselves, such aycom- prod to remain, for a period rous, unprogressive, a word ${ }^{2}$ a hoods.

Thanksgiving Day. by this clinton scolctard, Upon this"day, long sanctified,
OFather, be our guard and guide! For all the brooding mother-lpve,The yearning tenderness thereof,Than springtime skies more fair to see, or kindliness in every guise,
Thanksgiving be.
On this dear day, O gracious Lord, thou our ward
or the sweet charities that spring From out the heart of suffering, or the divine in man that eacas fay flee os saintly, sacrificial deeds,
Thanksgiving be!
O Giver, on this hallowed day,

## Motherhood.

["Eliza" is the wife of a doctor: She as brought up am all kinds of experience, We bespeak a welcome for her articles, which will appear once a month until she has said all she wishes to say to young mothers. Certainly the subject, Children," in everything that pertains
Cit is the most important subject to it, is the most important subject
in the torn world to-day. Children are the warp and woof of the fabric of the uture. We grown folk-the mothers, lathers, teachers and other influencers-
are the machines which weave the warp are the machines which weave the warp
and woof into that fabric. Surely it is ours to see that it shall be clear, and clean
and beautiful. To this end "Eliza" writes.-ED. 1
To Mothers Everywhere- $I$ kiss the
heart of the Maternal and say to The God I All-It it all in all to be a mother"$\mathrm{F}^{\text {ROM }}$ of Mothe immemorial the subject of poets and many a panegyric has
been written on the same, by writers both ancient and modern. It has been said that a woman is only
partly developed until she has borne a child, so surely the crowning glory o womanhood is wifehood and motherhood As motherhood is, then, one of the most
important events of a woman's life, it mportant events of a woman's life, it should be prepared for intelligently, and
some slight knowledge of how to care for some slight knowledge of how to care for a
child, (or children) would be of grea help to the young woman who for the first time finds herself with a wee mite thy a course of nursing, I orten wonder why a course of nursing, or more especialiy
in the care of young children could no be given with the course of studies in our
High Schools and Collegiate Institutes. this cove a beginning has been made in this connection in some schools (perhaps
only one) in the United States, where a baby is borrowed every morning for the
school term, and the girls, under a qualified instructress, are taught to bathe, dress,
feed and put the baby to rest, each girl in the class taking her turn till they have A woman is supposed to know by
instinct, how to care for a child if it be her own, but a little practical preparation might at least supplement instinct an
be of great value to both the younc be of great value to both the young mothe
and her baby. It has been said that to mate certain that a child shall be well born one must begin by training his
grandparents, but as that seems to be grandparents, but as that seems to be
rather out of the question for present purposes, let us try to give a few hints
that may be of service to the young wife
who for the first time realizes "Somewhere
upon the ocean, there is a ship bringing Just as soon as she knows a baby is coming she should place herself under the care of a reliable physician and follow
his directions exactly. Most young women are acquainted with the first symp toms of pregnanes, such as the stopping of the monthly periods, slight changes in the breasts and, most unpleasant of all, the morning nausea (which, however, generally becomes less distressing after
the fourth or fifth month. If one can have a cup of tea or even hot water with vill be found to be a great help in con rolling the nausea. Rising in a leisurely nanner is better than getting up hurried y; also care in the diet. Plenty of good and it is better to take a smaller quantity often than to overload the stomach at any one time: meat once a day and nol
oftener; plenty of milk to drink, lessening the quantity of tea and coffee; eggs the quantity of tea and cofree, egss
bread and butter, fruit and vegetables.
The most dangerous complication o The most dangerous complication of
pregnancy is disorder or disease of the pregnancy is disorder or disease reason for placing oneself in the care of a reliable physician from the very beginning, so
that should any such disorder make its appearance the condition may be recognized at once and measures taken serious. It is well to drink plenty of water so that the kidneys may act
freely. If you have severe headaches or swelling of the lower limbs take warning and see your doctor. and the windows should be open as much as possible not only when you sleep but also when you are going about doing your housework. Exercise in the open air and housework with the wirdows open are
better than medicine, but over fatigue or any great strain either physical or
mental should be avoided; especially


The Edge of a Garden.
One glance at the above ficture is enough to convince the home framer of the wisdom of placing a
house and its garden, if possible, at athe edge of a ready-grown grove. If the grove is lacking,
(such as a tub of water) or stretching to high above the head. Wear loose comortable clothing with no tight bands There are maternity corsets advertise help towards comfort in the wearing o nough to allow of the proper develop ment of the child. Some doctors advis the discarding of corsets altogether and the wearing of clothing supported 'from the shoulders.
The teeth sometimes decay during pregnancy and it would be well to
have them examined by a dentist and put in order about the fifth month The hair also may begin to deteriorate during this period, but massage with
some good hair tonic will materially help to preserve it in good condition. Gentle massage of the breasts and frequent washing of the nipples with castile soap and warm water is good, and a mixture in one ounce of castor oil will help to toughen the nipples and should be applied on retiring.
As far as possible the normal life should be carried on as usual, though an
extra amount of sleep is very beneficial A mid-day rest of an hour or so can be managed by most housekeepers just after the dinner or noontime meal is got ou of the way. Often one can accomplish by taking this little rest than by trying to keep going without it. Even if sleep does not come the relaxation quiets the nerves and rests the body so that the person who takes the rest, as well as for those around her. For the sake of both the expectant mother and the coming baby this daytime rest is very important
If you want your baby to be a good If you want your baby to be a goo

Now because you are breathing, eating,
sleeping, in fact, living for two people
instead of one (vourself and the coming stranger) you will realize that you should
conserve your strength as much as pos
sible. There are many ways in thich the house ing may be lighter if the sheets, platin towels, night gowns, dusters and evet neatly when taken from the line and laid away right out of the sunshine and fres air. The wind has generally blown them out smooth and straight, so that if they iron the work is not hand when the plain articles are not damped and rolled down.
A tablespoonful of coal-oil in the soapy will materially you wash your clothes and not the least trace of the odor of will be detected when the clothe are brought in off the line. A tablehelp to keep the iron from sticking of course if you are able to find some man willing to help with the heavy work is very scarce these days. In some communities they have what is called a community nurse who has the healeh of the district in her care and may be
called on in case of sickness, but I do not see why a central bureau could not be established in every community, where those in need of help in any emérgency might apply and get assistance. patriotic women and girls were organized into bands of voluntary helpers, and what noble work they did, going into homes where the the doctors as voluntary nurses, providing
or cooking food where whole families were afflicted, taking care of children, and in fact, turning in and doing everything a woman can do, at such a time to preserve the lives of and save from anxiety
those who were ill. Those in need applied at some central point, stating what was particularly needed, whether nurse, doctor or food and from the one centre all kinds of help were sent out. If it is a patriotic act in time of epidemic to
help those in need, why should it not be just as patriotic at all times to be ready to serve? From the lips of the beloved
Man of Nazareth fell these words: "Let him that is greatest among you be "your servant," and as He went about as one Who serveth." There is a very mistaken idea abroad these days that in some way a stigma rests on the young wo-
man who enters another home as "help" for the woman of the house. This onorable and praiseworthy whether it be given in house or factory, or store.
Kindness and consideration of both employed and employer will make things run smoothly and it seems to me that help for our, at times, overburdened housewives is as patriotic a service as one can tender to one's
country. If those young women of the country. If those young women of the
community who have part of their time unemployed, and who would be willing to help a neig hbor in an emergency, with haif a day or a whole day's work, "Coummunity helpers", and then go where and when the call seems most pressing, what a wonderful help it would be to the busy, overburdened mother to be able to call up this central point and get seems too great to meet alone!

A very useful thing to have in the in offices. It can be used while ironing and doing many different things at the able, even washing dishes, and a house is wise for her to save herself in this way as much as possible. Another
nsefol article is a footstool (any smal)
Wooden box will do) to rest the feet while sitting and do remember to save yourselif by sitting while getting the vegetables ready or dinner and any other
chance you can make for yourself. The old saying "Never stand when you can sit" ${ }^{\text {" }}$ is a good one for those engaged in
housework to follow,

There are a few necessary things which you will want to have on hand when Three or 4 tiny of white flannel, 5 inches wide and 16 inches long, 3 flannel or flannelette 4 cotton slips or dresses for day weate, 3 or 4 dozen diapers made of diaper cloth or flannelette, 1 box talcum powder. 1 box boric acid, castile soap, 2 dozen sets of little patterns such as you will need for these things can be bought at any store where patterns are sold. For yourself you will need a solduare of
oicloth of rubber. shet square, absorbent conton and plenty of
old elean cotton ragis. There shuld a warm soft blanket to receive the baby. As this paper is quite long enough we will close here but hope to continue some and also the mother.

## Home-Framing in October

$T_{\text {HE crops are all off, the corn in the }}^{\text {silo, the potatoes }}$ not a few days "hep. Are thero root-time comes on, which may be set apart for "framing" the home?
frame it must have if it is to make the harmonious picture that every home ought to present. As well leave a picture without a frame as leave a home
without its frame of lawn, trees, vines and mhrubbery.
is worth while to have a beaptiful home-however, inexpensive. One loves it more. One can be thankfully proud of it. It makes a break in the drudge
of the daily work. All unnoticud it helps to create more sweetness and gentleness in everyone connected with it The best of it is that real beauty of-
setting may be obtained-not without setting may be obtained-not without paratively little outlay of money. Even the work is scarcely appreciable after
the first few days of the frrst few days of grading, fertilizing
and planting. Indeed, when it is all over the marvel can only be that one It is almost incomprehensible that there should be so many bare, uninteresting ooking homes everywhere, when so comparatively insignificant an expendi-
ture of time and money would suffice to make them beautiful and interesting, two or three days' work in the first place, a little attention at odds and ends
of time afterwards Try it if you don't believe.

## How to Begin

The very first step is to make a plan,
but you can do that some night when an are sitting about the table and every-
one's opinion can be enlisted.
traw Diaw
two or three plans, be enlisted.
Drang the build ings, roadway, and projected positions then choose the one that seems most In in tha
In that plan remember a few rules that
have been set down by the concensus
of oninion of the best of opinion of the best landscape gardeners,
and that are incorporated in the followIn the first place remember that the
house, whether cottage or palace, must be, by very nature of ir palace, must
be conter of
interest, therefore it must occupy the
most important place in the completed picture. To it thae eye must completed
led. Wirectly proportion must beut it all ideas of
for proportion for proportion is as necessiry in this
house "framing" as in loous-lbuilding in the first place. For instance: If
the house is small and low it must not
be made look absolutely it be made look absolutely insignificant
by being submerged in a forest of of hưe
trees. If, on the other hand, it is a tall and' stately builcing it must not
be mate look bare and awkward by a surrounding of insignificant shruubbery,
The small, low house needs above all ihings, apples trees as sitits accompompane all
with shrubbery and vines directly about
it The thell
bardy poplar, tall oaks, well-grow.
maples and beeches, to reconcile it with the landscape and give it all the charm
which it should which it should possess. Apple trees
there may be too, but there should be enough taller varieties to soften the hard ables and roof-lines

It will be seen, then, that each house this setting own individual setting. Also to the size of the hbuse, but to its form that this etc., as well. It is delightful if there were but two rules for planting -one for the large house and one for the mall. Continuous diversity is the secret or unfailing delight as well as the opThat last expression of indzvidualily. Always a house and its surroundings should be an index of the taste and character of the folk who live there; so. Theed, perhaps, cannot well escape being
There are, however, a few broad fundamentals of good arrangement that everyone can follow, without sacrificing place. Getails that lend personality to the place. Generally speaking, the best best setting to the front a more or less spacious lawn-with even more commodious lawn-space at the sides, because of the additional privacy there
secured. This granted there is left endless room
for diversity of planting. A considerable grove may run along one, or both sides at all, but "group" planting instead, with perhaps, a tree-lined drive. The dirive may be curved or straight; the
paths also. Upon a fairly small lawn one or two beech or maple trecs, well placed so they can expand, may be all ground" may be of The tall "back oaks or a clump of aspiring Lombardy poplars.
So the
 shut remember this: That trees, not planting. The shrubs are secondary and may be considered later. Also of interest. Put the tallest any point rule, behind the house ones, as else that needs accent. But don't have or many accents, especially high accents or the interest will be too much divided and the effect one of confusion an
distraction rather than of rest harmony.
(barnt to hide every disagreeable object (barns, stables, etc.), and to leave ever most charming outlon. Plan that the living-room windows plenty of sunshine about the house although a cozy old apple or crab-apple tree may be left to rub and purr agains to place one fine tree by itself sont on the lawn, where it can spread owher every hand and throw its shadow ou here, now there, following the sun. The
beauty of trees does not consist altogether in their foliage, but in theirsist altogether likely to be a favorite spot for tounce is or for the children's play. There is of air there than in the deeper thickness A last point or two: Be very chary than green. Blue spruces, bronze birches effective, if exceedingly well pe very,

## Time âd Method of Planting

## in spring. Spring is the best time for

## stablished; but the warter until fully

 are as of our native woods and any they repeated they are as good as any be remost beautiful home imaginable may becreated by the use of young growth from ones own woods, without the expendi-
ture of a single cent other than that
allowed for (when properly placed), pines, spruce
and cedar trees, sumachs, dogberry bushes, high cranberry, elderberry and surroundings of surpassing beauty home
shrubbery, because of the fowers, species that are not indigenous to this countrythe forsythias, lilacs, syringas, snowkeep up so splendid a succession of bloom fom snow-melting until snow-falling. a good, deep, rich root-bed should be prepared, quite wide enough to spread out all the roots without bending back or crumpling. After setting the tree the soil should be firmly packed, plenty provided over the top to keep down the moisture. As a top shoup down the until it is firmly established, it should be staked and wired, a bit of old leather or old rubber tire being bound about the
wire at the point where it touches the tree to prevent rubbing. Evergreen trees need no trimming back, but deciduous trees and shrubs may
require cutting back about one-third, require cutting back about one-third,
although care should be taken not to remove the leader (top bud) in hardwooded trees like oaks, beeches, etc. Shrubs usually need, more than trees, to be cut back, to make them branch out well. When planting trees it is
well to remember that small ones afe more likely to do well than big ones A man who has a beautiful old place and has experimented a great deal with planting says he finds that invariably
the small trees that he planted caucht the small trees that he planted caught up to and passed, in an incredibly
short time, large ones sat out at the same


King Albert of Belgium.
Who, with Oueen Elizabeth
During the first year young trees and shrubs should be watered right down
to the roots once or twice a week during

It goes without saying that the 1
about any farm-house, to present the
most beautiful picture, s'ould be large. must be not saying, however, that it as velvet and perpetually to shaven over
its whole area to It whill be sufficient to have it smooth about the house, letting it gradually
merge of into more irrerularity towards
the the outside where eventually it runs into
orchard or grove. The sit of ter that can be managed, for the greater part, with a mower, and the grass used
for feeding is best for a farm. If, how-
ever, a closely shaven two or three sheep or goats mav be taken to protect flower-borders, etc. adopted on many beautiful suburban There are many in the United States. mixtures on the market, hence no difficulty Walks and Drives.

## Curved, depending upon be straight

 of the place, but too much curvingshould be guarded gentle "bends" usually being sufficient
ostensibly a path or drive-way
callop oses dignity because it suggesh remember is that always where point to curve there should be some evident reaso shrubbery, etc.; there is a clump of exasperates one more than to follow the curves of a path that wave to One has an exaspera a plain grass wind cut" over the grass and desire to "sharit:
over the grass, and usually does 80 .
Paths of gravel laid close together are more flag-stones than cement ones, and if further inge viduality seems to be needed it can ho given by an arbor at the entrance of bery, or perhaps, if the path of shrub. edge of the lawn, a well-built stone the covered with vines, or with its crence planted with thyme, stonecrop,"and other

To conclude may it be said that ways, whether in consideration of plant ing, walks or buildings, the beat results are obtained when there is nothing conspicuously prominent, but when everyBecause "The beauty of harmony greater than the beauty of the whole in part."

## Hope's Quiet Hour.

## Be Not Afraid

He saith unto them, It is I; be not
afraid.-S. John $6: 20$.
I say to thee, do thou repeat
To the first man thou mayest meet That he and we and all men move Under a canopy of love
As broad as the blue sky above
And we, on divers shores now cast All in our Father's house at last.

The disciples of Christ had been strug gling through the dark and stormy night and sea. They were toilling against tini to obey their Master's orders and row to the other side of the lake. He was on a mountain apart, and they were in the midst of the lake, tossed with the waves contrary wind. Three of the Evangelists have described that journey, with its
wonderful ending; but it is St says: "it was now dark, and Josus who not come to them." The beloved disciple of his Lonely and heartsick in the absence They struggled on bravely until, in the
fourth watch of the nearth watch of the night,-when it was given up any expectation of must have that night, He suddenly appeared, walkwere calmly on the tossing waves. They were a rraid, thinking that they saw a 1; be not a fraid!"" and the said: "It is received Him into the ship. Then their suddenly ended in victory for "immed ately the ship was at the land whither they went." They were very near the
end of the journey, though they "did They had been afraid in the stormy anything, if they had only not have feared their Master "saw them toiling in rowing" -(S. Mark 4: 48)-and was ready to real need should arise Our Lord has again gone "up into a ciples to fight against contrary winds and heavy sea of trouble and difficult know that wis are struggling bravely He ever liveth to make upon them, that them, and that He will certainly be ready to give help the moment it is neededman s extremity is still God's opportunity.
His banner over us is Love," as broad as the blue sker us is Love," as broad measure the length, breadth and height of that expanse which we call the sky? People are apt to talk carelessly and ignorantly about the various religions in the East, speaking as if they were
almost on a level with Christianity. But
what other religion can cast out fear by pointing to perfect, infinite Love? described by the famous Omar, who says that we are helpless pieces of the Game,
played by the Master of the Show upon this Checker-board of nights and days. He declares that no piety can cancel half a line of what we have written, nor all our tears wash out a word of it. In hopeless fatalism he groans.
"And that inverted Bowl they call the Sky
Whereunder crawling coop'd we live Whereunder crawling coopd we live
Lift not your hands to It for help-for it As impotently rolls as you or I.

Compare such hopeless pessimism as
that with the reiterated promises of God in the Bible. There we read of Love that is unfailing and that did not shrink rom the Cross for our sakes. We are
offered free forgiveness which can wash out the stains of sin and make us whiter than snow. Over and over again we because the God Who is Father, Lover Brother and Friend is always near No matter how dark the outlook may be, we can hear the Lord-Who has al power in heaven and earth-say: "It
is $I$; be not afraid." He is always closer than breathing and nearer than hands and feet. God has linked Himself with us by the Incarnafion-can His purpose
of love fail? Of course He does not clear away al difficulties from life, or allow us to sai
always over an untroubled sea. Too alweat ease would be disastrous to our higher selves. We must perfect our trust in hours of darkness-clinging to the God we cannot see, as Jesus did on the
Cross when He felt forsaken. We must learn patience by enduring suffering for even the Captain of our salvation was perfected "through sufferings."-
Heb. $2: 10$. We must run our earthly Heb. 2:10. We must run our earthly
race, looking unto Jesus; and must watch race, looking unto Jesus; and must watch
for the Vision of His Face in the darkness Our ears must recognize the still small voice of the Master through all the turmoil of earth's noises.
If your faith in Him
If your faith in Him fails sometimes go and tell Him about it. "Speak to
Him, thou, for He hears"- though you may not always hear Him. N real prayer can ever lose its way, for it
flashes instantly from the heart of a child to the Heart of the Father. God of asking Him, but He also knows what we need. We can trust His wisdom to answer our foolish prayers wisely,
with love that never fails to give us with love that never fails to give us
better things than we ever thought of asking. St. John may have felt desolate when he was exiled in his old age to the barren, rocky island Patmos. Yet it
was there he heard the Voice like the sound of many waters, and saw the was there he saw a door opened into heaven, and gazed in wondering joy on the white-robed multitude of the victors, who had suffered and died with their eyes
on Christ. It was there he saw that glorous City of God-the Kingdom of heaven, where the Prince of Peace is loyally obeyed. Ask St. John, at the close of
his long life, whether he would have been pleased if God had interfered to save him from being banished to that look straight into heaven! Only when we are able to look back, seeing life's journey
as a whole in the clear light beyond death, shall we be able to see how wonder answered. In the meantime, let us accept each day's lessons, duties and pleasures with fearless ioy, knowing tha
each moment is planned out for us by each moment is planned out for us by
the One Who knows what we need St. John wanted to preach Christ, and he was sent where it seemed as if he
could help no one; yet out of that time book of the "Revelation of Jesus Christ Rev. 1 : 1. God always knows where to in kitchen or palace, on a sick bed or Many neighbors on a wide prairie. which rage round the afraid in the storms That ship has weathered many terrible storms, but they fear that this will be too much for her. When the war began had failed, yet now Cry that Christianit munions are roused to a great "Forwar Movenent" -a movement which wa born in the storm of war. Even there

## e's Quiet

 Hour.
## ot Afraid

0 them, It is I; be not
$6: 20$.

## thou repa

 , or open strest meet and all men move blue sky above.ers shores now cast r's house at loyage pas
of Christ had been stru e dark and stormy night were toiling alone win laster's orders and roit
of the lake and they were in tha e, tossed with the in the Three of the against the that journey, with its w, dark, and Jesus was blol the night,-when it was ectation of seeing Him e tossing waves. n, but He said: "It and then they willingly $t$ winds and waves was n victory, for "immed
as at the land whither were very near the
, though they did
n afraid in the stormy
W would not have feared had only known that 8)-and was ready to
ssistance instantly, if ssistance
ald arise.
gain gone "up into a pray, leaving His dis-
nst contrary winds and ouble and difficulty. s are upon them, that
make intercession for
wit will certainly be ready noment it is needed-bove"-and as broad , bl breadth and height to talk carelessly and the various religions king various re reygions
ith Christianity. But
we heard that Voice above the roar of
the guns: "It is I; be not afraid!" and now we can trust Him in this day of
seething unrest. He has been with His disciples for many hundred of yearsis it possible that He can fail them now?

O changeless One, Thou only
Art life's Guide and spiritual Goal, Thou the Light across the dark vale
lonely, Thou the eternal Haven of the soul.'

> ven of the soul." Dora Farncomb.

## The Windrow.

Chinese women are forming "Unions" which deal with political questions. Anatole France, France's chief man of pacific ism and against militaristic educa pacific
tion.

Sir Rabindranath Tagore, the Hindu poet, has given back the knighthood Goverred upon him by the British flogging of rioters by military order in

Women in New York, members of community councils, are inquiring into groceries, and reporting cases of profiteer ing to the food administrator. They intend carrying out a spirited campaign
for fair prices

October's Bright Blue Weather.
folk's quite the conventional thing for the year-the season when all of nature is dying pitifully; when last leaves, sea And brown, cling upon withered boughs autumn that sang itself into my heart:

Oh, sun and skies and clouds of June, Ye cannot rival for one hour Ye cannot rival for one hour
October's bright blue weather."

It may be the conventional thing to speak of autumn as a sad season-bu into the country and wander through woods gloriously splashed in rich scarle and gold. Let's go down the winding road banked with wild asters and glowing orchard and the cornfield, where the pumpkins are round and yellow. Let's look up into the sky above-so bright it is that it seems to reflect the very soul of heaven-and breathe in the keen
freshness of the air. Is autumn the freshness of the air. Is autumn the
season of dying? Autumn, with its blaze of color and its riot of perfume? Of course, the gold and the scarlet and the purple will have to go some day lasts past an appointed time And asts past an appointed time. And vital beauty of the last months before winter? Isn't there a promise of beauty That's what autumn means to us It is a promise, a bright blue "promise It's the goodnight hymn of Nature as she
In goes to sleep-a sleep that is quiet and
restful under the snow. Autumn is not restful under the snow. Autumn is not
a tearful farewell-it's a smile that says 'au revoir'-till we meet again." That is what autumn really means.
What does it mean to you?-Christian What does it mean to you?-Christian
Herald. Herald.
The youngest came crying to his mother. "Why, dearie!" she exclaimed, "What s "Dad was lifting a big box and it fell on his toes," explained the child "But," continued the mother, "that is hardly anything to cry ,, about. You "I did," said the boy.-"Harper' Magazine."
"Father, who was Shylock?" asked the small boy.
"Goodness, boy!" exclaimed the father You attend the finest Sunday Schoo lock was? Go and read your Bible, sir!"

## The saving in the Soup Tureen <br> Bovril makes soups and stews so much more nourishing that they can often take

 the kitchen. Bovril is the concentrated many dollars in the goodness of the best beef - so strong that it cannot possibly -Bouril in the Bovril bottle.

## Take Your Time, Don't Hurry!

There is no need for so much rushing on baking days, hurrying to get your cakes in the oven-such exhausting exertion adds baking to the list of household drudgeries.

You can take your time yet do more with

## EGG-0 Baking Powder

than with other brands because the leavencakes are properly baked-No matter if you do have to wait several hours for your oven.

And don't worry if your oven does cool off. Egg-O will leaven your baking with less heat than most other brands.

And above all, don't worry about fallen cakes, follow the directions on the label You will use less Baking Powder, and
Egg-0 Baking Powder Co. Limited
Hamilton, Canada


## Civers

START THE DAY RIGHT
with a cup of this delicious Cocoa for breakfast. It makes a splendid foundation for the day's work.


Made in Canada
THE COWAN COMPANY Limited
Toronto Gos

"NEVER FUT OFF UNTIL TO-MORROW"
Excelsior Life Insurance $\mathrm{C}_{0}$.

The Fashions.
How to Order Patterns. Order by number, giving age or
measurement as required, and allowing at least ten days to receive pattern.
Also state in which issue pattern apAlso state in which issue pattern ap-
peared. Address Fashion Department, peared. Address Fashion Department, Mag Farmer's Advocate and Home sign your name when ordering patterns. Many forget to do this.
When ordering, please use this form:Send the following pattern to

## Post Office

County...
Province..............
Age (child or misses'
Measurement-Waist.................
Date of issue in which pattern ap peared
2999. Ladies Dress.
Cut in 6 Sizes: $34,36,38,40,42$ and Cut in 6 Sizes: 34, 36, 38, 40, 42 and
44 inches bust measure. Size 38 re44 inches $51 / 8$ yards of 44 -inch material.
quires
Dress measures about 2 yards at the foot. Price 10 cents,
2998. Girls' Dress.
2998. Girls' Dress.
Cut in 4 Sizes: 6, 8,10 and 12 years. Size 10 will require 23 , 10 yand of 44 years. Size 10 will Price, 10 cents.
material. Price
2991. Ladies' House Dress.

Cut in 7 Sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires $53 / 8$ yards of 36 -inch material
Width at lower edge, is about $21 /$ yards Price, 10 cents.


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05


Miss. 297. A New Coat for the little Little Cut in 4 Sizes: 6, 8, 10 and 12 veat Size 10 requires 31, yards of years
material.
Price 10 cents ${ }_{29}$ material Price, 10 cents.
${ }^{2013-2757} \mathrm{~A}$ Pretty Costume. $40,42,44$ and 46 inches bust mean Skirit 2975 Cut in 7 Sizes: 22, 24, 26 , 2aid A medium sizo in inches waist measure. inch material. The skirit yards of 36 . yard material the foot, with sthirt meatits exresendor $1 / 3$ TWO separate patterns 10 cents FOR EACH pattern.

Cut in 4 Sirl's Dress.
Size 10 will require $31 / 10$ yards 14 years, material. Price, 10 cents. 44 -incl
2994. Ladies' Combination Garment Cut in 4 Sizes: Small, 32-34; Medium, ${ }_{4}^{36-38}$; Large, $40-42$; and Extra Large, requires $34 / 8$ yards of 36 . Size Medium
rest with $8 / 8$ yard for the ruffle. Price, 10 cents.
2666. Girls'
2666 . Girls' Dress.
Cut in 4 Sizes: $8,10,12$ and 14 year. Size 12 will require $31 / 2$ yards of 44 -inch size 12 will require 10 ents.
material. Price, 10 cents.
2978. A new One Piece Model. Cut in 3 Sizes: 16, 18 and 20 years. Size 18 will require $51 / 2$ yards of 42 -inch 2983. A Trim One Piece D. Mother's Girl. Cut in 4 Sizes: 6, 8, 10 and 12 years. Size 8 will require $31 / 8$ yards of 44 -inch material. Price 10 cents
Cut in 4 Sizes: Stive Negligee
36-38; Large, $40-42$ and Extr Medium $44-46$ inches bust measure. Size Medium


Coat for the little Litul $31 / 2$, yards of 44 y－inch 10 cents． Pretty Costume．
t in 7 Sizes： 3 ．
6 6 inches bust measure．
7 Sizes：23， 4,26, inches waist measure 11 require 6 yards of 36 ． ，with plaits extended ress． 8， 10,12 and 14 years 10 cents． Combination Garment．
Small，32－34；Medium． -42 and Extra Large，
measure．Size Merim is of 36 inch materian
$1 \frac{12}{2}$ yand 14 year． 10 cents． ne Piece Model． re $51 / \frac{18}{2}$ yards of 42 －inch One Piece Dress for $6,8,10$ and 12 years．
$e$
31,8 yards of 44 －inch 0 cents． active Negligee．
Small， $22-34 ;$ Medium －42 and Extra Large，
neasure．Size Medium



社號
 LILY WHITE CORN SYRUP
Some people prefer the white（Lily White）corn syrup for table use；others，the golden，cane－flavored， Crown Brand．

Authorities strongly recommend Lily White for PRESERVING，and candy－making．


## CROWN BRAND CORN SYRUP

Lily White and Crown Brand Corn Syrup can be used for all cooking purposes．
Both are pure food products，nourishing，high in food value and are great helps to household economy．
Sold by Grocers evérywhere－in $2,5,10$ and 20 pound tins．
The Canada Starch Co．Limited ．Montreal

requires 53.4 yard
Price， 10 cents．
2972．A Smart Littlc Frock．
Cut in 4 Sizes： $2,4,6$ and 8 years． material．Price， 10 cents．
2987－2995．A Stylish Gown．
Waist 2987 Cut in 7 Sizes： 34,36 ， $38,40,42,44$ and 46 inches bust measure．
Skirt 2995 Cut in 7 Sizes： $22,24,26,28$ 30,32 and 34 inches waist measure．A medium size will require $51 / 3$ yards of 44－
inch material．Width of skirt at lower inch material．Width of skirt at lower
edge with plaits extended is about $21 / 8$ yards．TWO separate patterns， 10 cents FOR EACH pattern．
2968．A Chic Model for a School Dress．in 4 Sizes：8， 1012 and 14 years．
Cut Size 10 will require 4 yards of 44 －inch material．Price
2623．A Cool，Practical and Com－ fortable Apron．
Cut in 4 Sizes：Small，32－34；Medium， 36－38；Large，40－42，and Extra Large，
$44-46$ inches bust measure．Size Medium requires 4 yards of 36 －inch material． Price， 10 cents．
2645．Child＇s Play Dress．
Size 4 will require $23,1,4$ yards 5 years． Size 4 will require $23 / 4$ yards of 36 －inch material．Price， 10 cents．

A couple of old rounders were sitting
in a bar－room imbibing cocktails．Pres－ ently one of them remarked，＂Do you
know Bill It hink IUl buy this hotly． know，Bill，I think I＇ll buy this hotel？＂， ＂Wait till we＇＇ve had a few more，drinks， said Bill，＂and I＇ll sell it to you．＂－Boston
Transcript．

The Ingle Nook






An Old Story．
found the following true story the other day，quoted in an old book years ago．I give it with no further preface than to say that the narrator
of the incident master who lived in Canada in those marly days：
＂In the winter of 1832, ＂he says，＂I was led，partly by business and partly from the Indian Establishment of Cold－ water to the Sault Ste．Marie，a distance of nearly 400 miles．
moderately covered with snow；with the assistance of snow－shoes we were enabled to travel a distance of 50 miles in a day； put my business not requiring any ex－ the thousand isles of Lake Huron． ＂Near the close of a long fatiguing day，
my Indian guide came on the recent my Indian guide came on the recent track of a single Indian，and，anxious
to please me，pursued it to the head of a very deep bay．At a very short
distance from the shore，the distance from the shore，the track led us past the remains of a wigwam，ad－ joining to which we observed a large
canoe and a small hunting canoe，both canoe and a small hunting canoe，both
carefully laid up for the winter．After a

Sh1013e O1t Or7 Hams．Bacon，Sausages


In THIS Smoke House
A 6－Years＇Success

 NATIONAL GIANT SMOK HOUSE


 GETFREE BOOK




## Has Done Good Work Ontario Temperance Act A Great Benefit to Province

THE Ontario Temperance Act has reduced crime by over one-third and drunkenness in public has practically disappeared.
Alcoholic insanity has disappeared.
Gold cures and alcoholic institutes for treating alcoholism have been closed for lack of patients.

Ontario has been saved an annual drink bill of $\$ 36,000,000$, enough to pay our share of interest on the War Debt.

Many victims of alcohol three years ago, thank God to-day for the Ontario Temperance Act.
$\qquad$


Abraham Lincoln "The Liquor traffic is a cancer in society, eating out
the vitals and threatening destruction, and all a a tempto to regulate it will not only prove abortive but will ad
gravate the evil. gravate the evil. It must be
eradicated-not a root must eradicated-not, a root must

To repeal the Ontario Temperance Act would be a calamity. The amendments would make it practically worthless. To every ques-

## Drink is a Cancer

Doctors, Alienists, Criminologists, Insurance Actuaries, STtates men, Generals, Big Business Men and Social Workers agree that alcohol as a beverage is a racial poison and a national curse.
British Columbia, Alberta, Saskatchewan, Manitoba, Quebec (excepting beer and wine). New Brunswick, Nova Scotia, Prince

Edward Island and Newfoundland have enacted prohibition.
The United States is permanently "dry."
France has abolished absinthe Scotland has now a local option law. England is initiating a great campaign for temperance reform. The movement is world wide.

Ontario must go forward, or be left behind, but be careful Mark Four X's (One X under each NO)
Ontario Referendum Committee
Chairman.

D. A. DUNLAP.

ANDREW S. GRANT;
ticc-Chairman and SACcreary,
Excelsior Life Bld
Vice-Chairman and Sectetary,
(1001 Excelsior Life Bldg., Toronto.)


Indian's wife was prepared to set before
us a plentiful mess of boiled fish; the us a plentiful mess of boiled fish; thi
was followed in a short space by sonp made of deer flesh and Indian corn, and baked in the ashes, in addition cales tea supplied from my own stores. to the "Before daylight on. the following morning we were about to set out, but could not be allowed to depart without and broiled fish were set before Roiled to my surprise, the young Indian, beore partaking of it, knelt to pray aloud.
His prayer was short His prayer was short and fervent, and had been accustomed to hear the Indian address the Deity. It appeared to com bine the manliness and humility which one would naturally expect to find in an "On taking our the heart
scan the countenance of our host to I flatter myself I could not mistake the marks of unfeigned pleasure at having exercised the feelings of hospitality, of the riches of his wigwam." the display The, narrative here ndian's history-that he had been at Drummond Island, where he hat been taught to pray and to be he had prudent and abhorrent of strong drink "Shall I Ifit the continue.
lapse of 18 months? - The set after the mer has arrived since The second sum the wigwam on the Lake shore, the fit residence of summer, is unoccupied-the fire is still burning in the wigwam of warmth but the situation, which has that season when cold is our greatest enemy, is now gloomy and dark.-Wonder ing what could have induced my friends to put up with the melancholy of the deep forest, instead of the sparkling of the
sun-lit wave, I hastened to enter dreadful the change! There was indeed,
the same Indian girl that I had left the same Indian girl that I had left healthy, cheerful, contented and happy but whiskey, hunger, and distress of
mind, had marked her countenance with the furrows of premature old age. Ait infant, whose aspect was little better than its mother's, was hanging at her
breast, half dressed and fithy breast, half dressed and filthy. Every
part of the wigwam was ruinous and part of the wigwam was ruinous and
dirty, and, with the exception of on kettle, entirely empty. Not one single article of furniture, clothing, or provision remained. Her husband had left had not moved from the spot; this thought strange, as his canoe and spear were on the beach. In a short time he returned, but without any food. He had,
indeed, set out to fish, but had indeed, set out to fish, but had lain down
to sleep in the bush, and had been awakened by a dog barking on our arrival. He appeared worn down and helpless both in body and mind, and seated himsel wam. "Producing in his place in the wig travelling stores, I requested his wife to cook them. They were prepared, expecting to hear his accustomed ndian, He did not move. I therefore commenced asking a blessing, and was astonished to observe him immediately rise and walk out of the wigwam.
"However, his wife and child joined us in partaking of the food, which they ate voraciously. In a little time the Indian returned and lay down. My curiosity was excited, and although anxious not seeking some explanation of the change.
It was with difficulty I ascertained the following facts:
"On the opening of the spring of 1833, the Indian, having got a sufficiency o
furs for his purpose, set off to trading post to make his purchase. The trader presented him with a plug of tobacco and a pipe on his entrance, and offered him a glass of whiskey, which
he declined; the trader was then occupied he deccined; the trader was then occupied
with other customers, but soon noticed the respectable collection of furs in the pack of the poor Indian. He was marked as his victim, and not expecting to be him drunk, he determined to accomplish this by indirect means.
"As soon as the store was clear of other customers, he entered into conversation
with the Indian, and invited him in drinking a glass of cider, which he unhesitatingly accepted; the cider was
mixed with brandy, and soon began to

## Foundied 1860

 prepared to set belon a short space by; buorhand Indian corn, and inated with hort, calee nes, in addit $\begin{aligned} & \text { any } \\ & \text { mown }\end{aligned}$ hh aboun. to to followige
wed to do set out, but of refreshment.
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 Not one single Ier husband or prooo out to fish, and lef his canoe and spea at any food. He had
sh, but had and had been awakenn and helpless both his place in the wi and flour from my
requested his wife pusly at the Indian s accustomed prayer nd was astonished to e and child joined us lood, which they ate
ittle time the Indian
lown. My lthough anxious not ration of the change.
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got a sufficiency , set off to a distant on his entrance ler was then occupied
rs, but soon He was marked him unless he made mine
ns. ed into conversation ass of cider, which hair pted; the cider was
and soon began to

CCIC BER 9, 1919
THE FARMER'S ADVOCATE
affect the mind of the Indian, a second came completely intoxicated. In this state the trader dealt with him; but it was not at first that the draught he had taken He parted with only one skin; the trader was, therefore, obliged to continue his contrivances, which he did with such
effect that for three weeks the Indian effect that for three weeks the lepian
remained eating, drinking and sleeping in his store. At length all the fur was sold, and the Indian returned home with only a few ribbons and beads, and a bottle
of whiskey. The evil example of the husband,' added to vexation of mind broke the resolution of the wife, and she, too, partook of the accursed liquor, The resolution of the Indian once broken, his pride of spir, his firmness were cone, he becantly his firmness, were gone; he, became a
confirmed drinker-his wife's and his own ornamented dresses, and all the furniture of his wigwam, even, the guns and traps on which nis nurreng depended, When I arrived, they had been two days without food, and the Indian had not
energy to save himself and his family from starvation. I made use of to conv ince the Indian of his folly, and to induce him even now to
begin life again and redeem his character begin life again and redeem his character.
He heard me in silence. I felt that should be distressing them by re
maining all night, and prepared to set out again, first giving to the Indian a dollar, desiring him to purchase food with it at the nearest store, and promising
shortly to see him again. far on my journey when 1t appeared to me that by remaining ing renewing my solicitations to them,
I might assist still more to effect a change. I therefore turned back, and in about two hours arrived again at the wigwam. The Indian had set off for
the store but had not returned. His wife still remained seated where I left Indian never coming back) neither moved norer raised her head. Morning came; I quickly despatched breakfast,
and leaving my bagkage, with the assistance of my guide set out for the trader's store. It was distant about two
miles. I inquired for the Indian. He came there the evening before with a
dollar: he purchased a pint of whiskey, dollar: he purchased a pint of whiskey,
for which he paid half a dollar, and with the remainder bought six pounds of
flour. He remained until he had drunk the whiskey, and then requested to have the flour exchanged for another pint
of whiskey. This was done, and having consumed that also, he was so 'stupidly
drunk' (to use the words of the trader) that it was necessary to shut him out of the store on closing it for the night.
Search was immediately made for him, and at the distance of a f ew yards he was So ends the story of the poor Indian.
-And still, after eighty-seven years, in regard to strong drink, is with us still. ferendum day" comes, that if you want
prohibition and closed bars you must put an X in the "No" column after
every question.-Also, don't sign your name, or it will be a spoiled ballot. JUNIA.

Plant Queries
For "A Plant Lover," York Co., Ont.
The trouble on your ivy, which is covered with small adhering, which is
can be rubbed off, is scale, really an insect pest. Eben Rexford says "Un-
less washed occasionally the scale may
take possession of this happens you will find it a difficult matter to get the , plant clean. It is
better to go on the ounce of prevention' plan and get a start of the scale by
frequent scrubbings of the stalks and washings of the leaves.
deal of water on its foliage." It likes a good
To remove applying lemon or fir-tree oil. Directions for preparing the wash accompany the oils. Apply with a soft rag or a brush
stiff enough to remove the insect after the application has done its work. Use
the both frequently, after you have rid return. The oils may be procured from
any dealer in greenhouse supplies. Until
they can be proct
with soapy water.
Maiden-hair Fern.-This fern dies roots. Bethe winter but has perennial covered with leaves, in the garden, spring, before growth starts, winter. In roots carefully. It prefers a light, loose, rich soil, in cool, moist shade. If grown should the drainage, as for all ferns, not be permitted to stand about the feet the roots must be kept moist
ruberous Begonia roots, or tubers rather should be lifted in fall after the frst light frost and stored like dahlia tubers in February or March in stall the or shallow boxes, in a soil composed of loam, sharp sand and leaf mould, keeping them at a temperature of 60 to 65
degrees F . When the plants are ready degrees F. When the plants are ready
for re-potting, well-rotted manure may be added, and when the roots have taken fresh hold a cooler temperature may be maintained. If wanted for bedding plant out irom the middle of May to the 1 st
of June from $31 / 2$ or 4 -inch pots, disturbing the soil as little as possible.
"Miss Coronation Cake
"Miss Bluebell" is exceedingly anxious to get a recipe for this cake. After but perhaps some reader will kindly come to her assistance.-J.

## Fall Cookery

Mock Cherry Turnovers.-Cut rounds about 6 inches in diameter from good pastry (flaky pastry is best). Cohop together 1 cup cranberries and $3 / 2$ cup of targe seeded raisins. Mix together 1 1/4 teaspoon salt. Pour $1 / 2$ cup boiling water over the fruit and when again boiling stir in the dry ingredients. Add a
teaspoonful of butter and let cook until teaspoonful of butter and let cook until
thick. Let cool a little, then set a large tablespoonful of the mixture on each round of paste. Brush the edges with cold water and cut 2 or 3 slits in the
second round for each turnover. Put second round for each turnover. Put gether. Brush with water or millk,
sprinkle with sugar and let bake 15 minutes.
Stuffed Onions.-Select 8 large onions, cover with boiling salty water and cook
until nearly tender. Drain, then scoop out the center of each to leave a cup. Mix together 1 cup chopped cooked ham, 1 cup fine bread-crumbs, $1 / 4$ cup
melted butter, $1 / 2$ teaspoon paprika, $1 / 4$ melted butter, $1 / 2$ teaspoon paprika, $1 / 4$ parsley and the onion that was removed. Fill the onions, rounding it up well. Pour a cup of thin cream or rich milk
around the onions and bake in the oven about 25 minutes, basting 2 or 3 times with the liquid in the dish. Mix 3 tablespoons melted butter with $3 / 4$ cup of cracker or bread crumbs and spread
over the mixture in the onions. Return the dish to the oven to brown the crumbs and serve at once.
Grape Fie.-Cook the grapes and put Grape Fie-Cook the grapes and put
through a colander to remove skins and seeds. Add sugar to taste and a sprink-
ling of spice (a little cinnamon and bit of cloves or nutmeg). If not very
thick add a little cornstarch dissolved in a little water. Fill plates lined with theringue of the whites of 2 eggs beaten stiff with a little sugar, and brown very slightly in a hot oven.
Spiced Cranberries.- Three and oneSpiced Cranberries.- Three and one-
half lbs. brown sugar, 2 cups vinegar,
2 tablespoons allspice, 1 tablespoon cloves, 1 -inch stick cinnamon, 3 qts. cranberries. Tie the spices in a piece of
cheesecloth and add to the sugar and vinegar, boiling all to a syrup. Add the washed cranberries, simmer for 2 hours,
then put in jelly glasses, and when cold cover with melted paraffine. This is good with cold meat or fowl.

The Scrap Bag
Bad Dreams.
If you want to avoid bad dreams never sleep on your left side, which
seems to give too much pressure on the seems to give too much pressure on the
heart.

Cooking Turnips.
To give boiled turnips a good flavor

dobm Tallam
1006 THallam Building, TORONTO
THE LARGEST IN OUR LINE IN CANADA


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##  <br> $\$ 12.75$ <br> Cut Rates <br> Security Tire Sales Co. <br> 5161/2 Yonge St., Toronto <br>  for Children <br> There is underclothing, night dresses, pyjamas, jerseys, knitted suits,

 knitted caps, slippers, for infants, there are spencers, bootees, in A fully illustrated application. For Sale at Jaeger Stores andJAEGER ${ }^{\text {Senithry }}$ Syoollen Co.LMITTED British "founded 1883""

Apply Fred Arthur, Knowlton, Que.

## Every Day in the Week



## (Both Ways)

Commenoing sumday, october sth, loaving TORONTO 9.15 р.м. DAILY MOST MODERN EQUIPMENT Standard Sleeping, Dining, Tourist and Colonist Gars. First-class Day Goaches. Parlor Car through the Rockies.

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## Canadian National Railways

The Range that has Made Good for 20 years

## The "Home Comfort" Malleable Steel Range

For the past 20 years we have sold an average of 2,500 " "Home Comfort" ranges-a atotal of 50,000 . In some conmunities the "Home
Comfort" is found in scores and scores of homes-due in measure to the fact that one woman user of it has recommended it to It is truly "Home Comfort"-a perfect baker, economical on coal, easy to run and durable beyond any other range we know of in
its finish and in regard to numerous features, it is women's own
idel ideal-they have told us what they want.

Can now be purchased direct from Factory


Wrought Iron Range Co. of Canada, Limited
 Toronto, Ont.


Appetizind Dishes For Cold Weather.
Chicken Goulash.-Two raw potatoes 1 tablespoon butter or dripping; 1 cup brown stock or gravy; bit of onion
1 cup cold chicken in and pepper. Pare the potatoes, then cut into small dice. Fry until they, thel tripping in the spider, with the butter or dripping. Next add the seasoning, stock ontil the potatoes. Simmer very slowly hot on buttered toast, or on Serve very with slices of hot boiled beet around Clifton Potatoes. - Two and onehail
cups cold mashed potatoes milk; 1 egg-white; 6 smali; thin slices bacon; $3 / 4$ cup grated chese; a little salt and pepper. Add the milk to
the potatoes and beat Fold in the egg-white, beaten stiferfy. gether with a trace of salt and pepper,
and spread in a shallow baking-dish. Sprinkle with the cheese lay the bacon over all, and cook in ${ }^{2}$ ? Baked Bean L baked beans; 2 small onions, cups cold 1 cup stale bread-crumbs; 1 cup mashed cooked carrots; salt and pepper. Com-
bine the ingredients, form in a loaf, brumb with melted butter or sweet dripping, and bake 30 minutes in a hot oven. If the mixture seems too dry when mixing adda
little Chili sauce, catsup or

## tomato

Mock Sausage.-One cup cooked beans. bup ground peanuts; 1 cup cooked 2 tablespoons mis penper; 1 teaspoon salt; 1 teaspoon sage; 1/2 cup milk. Mix well, let stand a fev; minutes then form into small flat cakes,
Dip in flour and fry quickly. Serve with Dip in flour and fuickly. Serve with Celery With inch lengths and simmer in salted water in until tender. Arrange in layers in baking-dish, with some white sauce and a good sprinkling of grated cheese over each layer. Sprinkle bread-crumbs
over the top, dot with butter dust a little grated cheese and bake in a hot oven until slightly browned.
Perfect Pumpkin Pie. . Cut up the
pumpkin without peeling it pumpkin without peeling it and steam in
a covered colander until remove the peel. Put the pulp in a dish in the oven, and leave the door open until it is dry but be careful not to let it brown
or bake. Press it throug the or bake. Press it through the colander
and measure. To $21 / 2$ cups pulp add and measure. To $21 / 2$ cups pulp add
2 cups cream or very rich mile spoon each (level) of salt, cinnamon and ginger; 1 rounded teaspoon of butter; and, tabspoon molasses; sugar to taste; well-beaten eggs. Make a rich pie crust and line an extra large and deep round on top. Pour in the pumpkin and bake slowly about 40 minates unti browned. Some dast nutmeg over too hot for either pumpkin or custard pies, or the filling will be hard or watery. And be sure to take out of the oven just
the moment it is done or the pie will the moment it is done or the pie will
be spoiled. Serve hot or very cold with spoonfuls of whipped cream all around.

What to Serve With What. An old hand-written cook book has the followin
Always have lobster sauce with salmon,
And put mint sauce your rowsted Veal cutlets dip in egg and bread crumb Fry till you see a redish-brown come. Grate Gruyere cheese on macaroni,
Make the top crisp but not too bony In dressing sap crisp but not too bony With two hard yolks use one t Roast veal with rich stock gravy ss And pickled mushrooms; too, observe. Roast pork, sans apple sauce, past doub,
Is "Hamlet") with the aprinc" Your mutton chops with paper cover And make them amber brown all over. Broil lightly your beefsteak,--to fry it Argues contempt of Christian diet. To roast spring chickens is to spoil them,
Just split them down the back and broil
It gives true epicures the vapors
To see boiled mutton without capers.
Boiled turkey gourmands know, of cours
The cook deserves a hearty cufing
Who serves roast fowls with tasteless
stuffing.

## Founded 1860

ng Dishes For Weather
 gravy; bit of onion
 ei Fry until tees, the ber pider with the buttero
and the sasoning, stocl in. Simmer very stool oast, or on S Serve pery
boiled beet aro phate S. Two and potatoes; $1 / 4$ cup warm grated d thin stirera r. Add the mille lith white, beaten stramply shallow, wall-greaer ver all. til the bacon is crisis. oaf.-Three cups old
small onions, minel -crumbs; 1 cup mashed ts, form in ipper. Com. ror sweet dripping e. chy when mixing add if One cup cooked beans; up stale bread-crumbed ced onion; $3 / 4$ teaspoon
 into small fat alake
y quickly. Serve with rese-Cut the clery in range in layers in a sof ratite sauce and
of grated chese over
fon with butter tead-cumbe ese and ba
browned
neeling it aut up the der until soft, then
Put the ave the door open until through the colander $21 / 2$ cups pulp add
very rich milk of salt, cinnamon and assess; sugar to totatere; Make extra arge ard piee piep
a fairly thick e ded eep Dour in the pumpkin
about
40
minutes ome dost nutmer over
that the oven pumpkin or custard will be hard or watery. e out of the oven just hot or very cold with

## ve With What.

sauce with salmor your rasted lamb on egg and bread crumb
redish-brown come ese on macaroni, p but not too bony
ind this
in ts use one that's raw is stock gravy serve,
rooms, too, observe. Mole sace, past doubt,

the saprince, elt | the "Prince" left out. |
| :--- |
| 8 |
| s with paper cover | sith paper over,

sher brown all over.
 cken sis to spoil them
inn the back knd l hooil es the vapors on without capers.
nands know, of course, elery sauce. hearty cuffing
fowls with taste

October 9, 1919

## THE FARMER'S ADVOCATE.

Current Events
Hon. W. L. Mackenzie King has formally accepted the nomination for
Prince Co., P.E. I.

Action by the Board of Commerce at Ottawa has caused a reduction of milk

President Wilson is very ill, and a onsulation over his case has been held

Dr. Braithwaite, who has been President of the Western University, London, Ont., for five years, has been appointed
National Organizer of the Inter-Church Forward Movement

The Indians of Lethbridge District, in investing the Prince of wales with the Order or him a name that means "Chief Many Smiles.'

The U. F. O. of Grenville Co.j Ont. has chosen G. A. Payne of Cardinal, as Mr. Barrick of Wainflect has been chosen for Welland in place of E . McIntyre, who retired

Brig.-Gen. Henri Panet succeeds Gen shannon as G. O. C. of Mil. Dist.

The British troops have left Archangel Northern Russia.

Mme. Adelina Patti, the world-famed singer, died at Craig-y-Nos Castle, South Wales, on Sept. 27. She left an
estate valued at $\$ 3,000,000$.

The great British railway strike was settled on October 5 . Following are the 1. Work shall be resumed im2. Negotiations will be resumed on completed before the end of the year. 3. Wages will be stabilized at the present level until Sept. 30, 1920, and at anytime after Aug. 1 they may be then existing. Britain shall receive less than 51 shillings per week while the cost of living is 110 per cent. above the pre-war level. men will work harmoniously with the mained at work during the strike. No shall there be any victimization of
strikers 6. Arrears of wages will be paid on King Albert and Queen Elizabeth of Belgium arrived in New York on Oct. 2

The German Government is to issue of monarchical insignia and emblems from buildings, letter-heads, rubber stamps, etc., throughout Germany.

Lord Fisher, former First-Sea Lord Great Britain, is appealing in British
papers for a great Anglo-American ederation to compel peace,

The Italian Parliament has been dis will be held on Nov. 16th. and election

Armer rarmer. "You affirm that when this meal. Let us be quite certain on this point, because this is a very importan with as good enough to tell me, sir what meal it was you were going home
"You would like to know what mea it "was?" asked the Scotchma
plied the counsel plied the counsel sternly and impressivel

## A Game of Soldiers.

by john Light
We used to play at soldiers, Me and my brother Willie We used to love to Out to the woods and green fields With other little friends, There by the winding river With its wooded little islands. And its rippling rhythmic streams. And yet it only at soldiersAnd yet it only seems And the hours we used to pla Were but a fleeting vision play Of a distant summer day And we fought our little battles, The sound of children's The sound of children's voices Confused and hurried orders As to where we should attack To drive the foeman barry To drive the foeman back.
There were so many orders, There were so many orders, Who was the friend or foeman Br who was in command. But I used to love those battles When we used to play at Not many years ago.

Now Willie lies in Flanders, In a simple little grave
With many other heroes, The bravest of the brave, And on a little hillock, Where the grass is growing green Just a wooden cross is seen. whould have been with Willie When he fought and died out there And they wheel me in a chair; But I'd like to have been with him, Just to call to mind, you know The times we played at soldie

But one day I'll be with Willie And I'll see him face to face, And he'll be amongst our heroes In a brighter, happier place,
Where the birds are ever singing, And the night is as the day; Where the joyful bells are ringing And all tears are wiped away;
Where the trees are ever buddin Where the trees are ever budding And the gentle breezes blow; And perraps we'll play at soldiers
As we used to years ago.- In The Maple Leaf.

The Fairies' Flitting. All over the land is the packing of kit,
For the dear little fairies are making The chill of the autumn is creeping o er all And the fairies must go when the yello
leaves fall. So it's whisper and rustle: "Autumn is Chatter and bustle: "Hurry up, dear!"

With flutter and song from the dawning of The fairies are busily working away. fading leaves cling
Comes a hum and a buzz as of bees on th
"Ning: Pack up my sandals quick as you can

When darkness has fallen on meadow and
There steals through the silence the
fairies' farewell. And sad the wee song is, but the re "Dear land! the next summer we'll see you
Then off they fly
Hither and thither

## Competition

There were once two cats of Kilkenny, many,
So they scratched and they bit,
They fought and they spit And the tips of their tails, Instead of two cats there weren't any


Wrapped to insure its perfect condition. Sealed tight-kept


DO YOU WANT TO EARN SOME MONEY? IF SO. witite to The Subccipton Department of The Farmer's adVocate and home



Feed Cane Mola
to your Horses Cuns
Sheep and Pigs.and Increase your Prifits


Sprinkle Cane Mola over your straw, old hay, corn stover, fodder, ensilage, screenings, etc. Reduces cost of feeding.
Bent MOL. is $100 \%$ Pure Cane Molasses and not a Prepared Stock Feed. Makes more milk at less costo Builds flesh faster.
Keeps stock healthier. Solifin strong iron-hooped barrels,
net eachib net tach, at a very reasonable price.


Training Little Children
 has an a ative mind, but many parents do
nothing to
purtonsth then or train this vital
 development to the teachers sin hhe schools.
Those parents are indeed fortunate who Those parents are inded fortunate who
have kindergartens in their town or city, lor the kindergarten. gives systematic
mental training to children as arrly the fourth year.
The easiest way to teach a child to think is through play. The mother can
begin to sing Mother Gose rhymes to begin to sing Mother Goose rhymes to
the mere inlant in arms. As the child grows he recognizes the words and orten
the the
 favorite songs or thymes and then begin
to sing or resite himsulf to sing or recite himself. Up to this point
the mother has accomplished thre things the mother has accomplished three things:
Strengthened the memory cultivated an
den
 vocabulary
Be sure to use only the best grammar
when talking to a child
Baty when talking to a child Babst talk is
funny for the grown uns for a while b tunny ior the grown ups for a while, but
the dificiulty the child faces in overcoming this is tremendous.
As the child grows older a story hour
 is really a lesson in lang yaye. The
mother should begin with the figeer pal Mother should begin with the finger plays
when the child is 8 or 9 month old sums
 steeple." "Pata-c-cake," and the counting
lesson, "The thent two; the middle fingur, three the ping finter Iourr, litte finger, five, and that is all you
see. to understand." That is the great bins pose of the finger plays. it the great purAs the child grow other stories can child, from about 2 years of age on, loves
 Red Hen,"'and other similar simple "Little In telling stories to children, espeelement of of fear. Coung children lden, avoid the best the
elt stories they have heard before. A A good
rul is to let thechild choose Mother can introduce ano a new is own story. she dems best. Another good plan is is $t$ have the child tell mother a story some times, as this will aid self-expression and anoson in language
play spiritit again. play spirit again. In bouncing a ball,
repeat the old-time jingle, "One, two, repeat the old-time jingle, "One, two,
buckle my shoe." You will be surprised at how quickly the little ones will begin to count. Again, in build
ing blocks, make a game of counting saying, "Give mother one block," then etc. It is unwise to teach a child und well started higher than ten. They are well started if they are able to count as
high as this correctly To develop the power of concentration, without which no human being can be
successful in life, there must be mount of directed play each day and the mother given this in kindergarten, in the home. When mother sews, the opportunity to direct play is at once
afforded by having the child sit close by such as a piece of loose-woven cloth, pointed needle should be chosen, bluntpurpose and tied securely to ar the thread. When the child shows evidenes of fatigue the work should be laid aside Large, colored, wooden, kindergarten cubes and spheres, 1 inch in size, with
hole through the centre to laces, are also fine for a lesson in on sho tration. This occupation should be per-
mitted only when mother mitted only when mother is close by to For a child of sewing cards which are perforated to be worked in colored worsteds, are interesting and instructive. An eco-
nomical way to procure such the father or mother to such cards is for oblongs out of cardboard, lightly squares or apple, ball, or some other object on ane of the pieces and then perforate the outlines every half inch, making the holes as large as the head of a pin. These in bright colors, working up and down in
the holes. Be sure the object to be sewed are latlines of the
objects small objects are ton trying for young hands
and eyes.

## A Tip Top Investment

Foresight is the greatest factor in saving yourself time, money and annoyance.
Don't continue sending good money after bad-by buying poor roofing to patch and repatch your old roofs. Invert in

## PARIII NEPONGÊT RIDF

and obtain lasting satisfaction, durability and economy.
Once Noponset Paroid Roofing is laid it forms an ideal roof, either on new buildings or over old shingles. It can be put on quickly without litter or fuss. Costs half the price of shingles and pays for itself by wearing for years.
Neponset Paroid Roofing can be used on any building no matter how large or small. It fire and weather-resisting properties give it first place emong roofings.
Neponset Paroid Roofing is mado in three colors, red, ereen and slato grey.

Sold by Hardware and Lumber Deelorn.
BIRD \& SOM, Lumes : Hamurom, Ont


## FOR SALE-A <br> "SIMPLEX"

## Combined Churn and Butter-worker

1,000 pounds capacity, in good order, with shafting and pulleys. Suitable for 5 H.-P. motor. Apply
WM. DAVIES CO., 521 Front St. E., Toronto, Ont.

[^1]
## ment <br> a 8aving <br> oyance. <br> oney af to patch to patch <br>  <br> THE MOLSONS BANK Capital and Reserve $\$ \mathbf{8 , 8 0 0 , 0 0 0}$ Over 100 Branches Prepare Your Sons' Future Open a Savings account in your boy's name in The Molsons Bank, and teach him to deposit his savings in it. The habit of saving thus acquired, even more than the money itself will prove a great asset wards his success in life.

## vorker

rith shafting
ronto, Ont
ch is an excellen ys possib old Furniture. re, a little bit at a
castile soap, rubbing hamois before goin varnished woodwor 1 vhite marks apply a bottle. Apply with a so


> Empire Silo Roofs

## Get one for YOUR silo

Don't let your silage go to waste through snow and ice and excessive freezing
Read what Agricultural College men have to say about having roofs on silos. Their ${ }^{\text {remarks }}$ are published in our Free Leaflet on "EMPIRE" SILO ROOFS.
Prices greatly reduced this year. Send a card to-day for prices and leaflet.

## The Metallic Roofing Co.

 Manufacturers since 1885King and Dufferin Sts. Also at Winnipes

[^2]Markets

## Buffalo.

Cattle.-Trade at Buiffalo last week stiowed considerable improvement over
the preceding week, values ruling strong
to fiften to to fifteen to a quarter higher on shipping
 supply in the east and generally a better were more inclined to take hold, 2 result of which a good clearance was had all week. Canadian receipts were moder and the best steers offered were 85 loads Dominion, showing a range of out of the to $\$ 13.50$, with best natives around $\$ 13.40$ In the handy butchering lifte, best steers sold around $\$ 12$ to $\$ 12.50$, with the best
heifers heilers running from \$10.5) to $\$ 11$ gener-
allv, prime higher. Stocker and feeder mar ket showed some very good qualitied feed ers, which sold up to \$11, with the lighter
and less desirable kinds running
low
 prices. Bulls generally were advanced
from 25c. to 50 c. Milk cow an- 1 springer market was full steady. Offerings for
the week totaled 4,850 head as 4,600 for the preceding week and as compared with 7,175 head for the cor-
responding weel' a year ago. Quotations: Shipping Steers - Natives- Very chaice heavy, $\$ 16.50$ to 817 ; best heav
over 1,300 , $\$ 15.50$ to $\$ 16$. fair over 1,30 $\$ 13.50$ to $\$ 14$; best, 1,200 to $1,300, \$ 15.50$ to $\$ 16$; good, 1,200 to $1,300, \$ 14$ to $\$ 15 ;$
good, 1,100 to $1,200, \$ 14.25$ to $\$ 15$; plain, good, 1,100 to
$\$ 11.50$ to $\$ 12$
Shipping Steers heavy, $\$ 13$, to $\$ 13.50 ;$ fair to $\$$ heavy, $\$ 12.50$ to $\$ 13 ;$ medium weight, $\$ 12$ to $\$ 13.50$; common and plain; $\$ 11$ to to $\$ 11.50$.
Butchering
Steers Butchering ${ }^{\text {Steers- }}$, Yearlings, fair
to prime, $\$ 14$ to $\$ 15.50$; choice heavy, to prime, $\$ 14$ to $\$ 15.50$; choice heavy,
$\$ 13.50$ to $\$ 14 ;$ best handy, $\$ 12.50$ to $\$ 13 ;$ fair to good, $\$ 11$ to $\$ 12$; light and Cows and Heifers. Best heavs heifers, $\$ 11.75$ to $\$ 12$; good butcherin'g heifer $\$ 9.50$ to $\$ 10.25$ ' Light, corng heifer
 to good, $\$ 7.50$ to $\$ 9$; cutters, $\$ 6$ to $\$ 8.50$ canners, $\$ 4.50$ to $\$ 5.5$
Bulls.-Best heavy, $\$ 9$ to $\$ 10$; good Sinthering, $\$ 8$ to $\$ 9$; sausage, $\$ 7.50$ to
88 ; light bulls, $\$ 6$ to $\$ 7.50$. Stockers and Feeders-Best feeders,
$\$ 9.50$ to $\$ 10$; common to $\$ 9.50$ to $\$ 10 ;$ common to fair, 88.50 to
$\$ 9.50$; best stockers, $\$ 8$ to $\$ 7.75$ to $\$ 8.25$; common, $\$ 6$ to $\$ 7$. small lots, $\$ 100$ to $\$ 150$; in carloads $\$ 90$ to $\$ 10{ }^{\circ}$; medium to fair, small lots
$\$ 80$ to $\$ 85$. in carloads $\$ 70$ to $\$ 75 ;$ $\$ 80$ to $885^{\circ}$ in carloads, $\$ 70$ to $\$ 75$ :
common, $\$ 50$ to $\$ 55$. Hogs.-Prices a ${ }^{\dagger}$ Buffalo, the same as at all other marketing points, took a big tumble last week, dropping to the lowest level since the latter part of October, 19y of Monday, which was
the high day of the past week $\$ 18.60$, bulk sold at $\$ 18.50$, with pirg $\$ 17.50$ and $\$ 17.75$, and by Friday the top was down to $\$ 16.60$, bulk moved
at $\$ 16.50$ and pigs ranged down to $\$ 15.50$ and \$15.75. While a reaction in the trade may be looked for, the general
opinion is that prices will continue to work lower and some are making pre-
dictions that the packing season will dictions that the packing season will
see good hogs selling as low as $\$ 12$. Buyers see good hogs selling as low as $\$ 12$. Buyers
got good roughs the latter got good roughs the latter part or the
past week at $\$ 13$ and $\$ 13.50$, and stags ranged from $\$ 11$ down. Receipts for the past week total 21,000 head, being against 18,796 head for the week befor and 24,900 hecd for the same week a year
Sheep and lambs. Last week opened with lambs selling lower and a strong market was had on sheep. Monday top lambs solf at $\$ 16$, with culls ranging from $\$ 7.25$ and $\$ 7.50$ and cull sheep ranged from $\$ 3$ to $\$ 4.50$. Market was active and generally higher the next few days. Friday best lambs brought up to $\$ 17$, good culls reached $\$ 14$ and $\$ 14.50$
ewes ranged from $\$ 7.50$ sheep $\$ 3$ to $\$ 5$. Receipts for the past week were 17,500 head, as compared
with 12,494 head for the week previous and 13,600 head for the same week a year ${ }^{\text {ago. }}$

The Farmer-Banker Alliance
You go to your lawyer for legal advice; to the doctor for medical advice; why not to The Merchants Bank forfinancial advice?

If you want a loan to buy cattle, hogs or equipment-if you want information as to how to invest money-come to those who make a business of financial matters, and are in a position to give you sound and impartial advice.

## THE MERCHANTS BANK

Head Office: Montreal. OF CANADA Established 1864.
With ith 131 Branches in Ontarioo 42 Brancheo In Quebec. 1 Branch in New Brungwick, ${ }^{2}$
Branches in Nova Scotia, 30 Branches in Manitoba, 44 Branches in Saskatchewnan, 74 Branches in Britioh Columbia, serves rural Canada moos
WRITE OR CALL AT NEAREST BRANCH.

## THE VALUE OF MONEY

Money-ready money is an essential in every line of business-mercantile or farming. Wise farmers build up Savings Accounts, which enable them to purchase for cash.
A Savings Bank Account with this Bank assures ready money when needed. Interest
IIMPERIAL BANK
180 Branches in Dominion of Canada.

## The Government of the Province of Ontario

Appeals to the farmers of the Province to fully protect their property from FIRE.

## Fire record in Ontario for <br> August on Farm Property:

Number of Fires, 75
Total Loss, \$259,491
Every fire has a small beginning. We can supply you with the necessary extinguishers to prevent them spreading. We carry a full line. Mail the coupon to-day.

## hamilion cleveland company


IIII Hamilton Cleveland Co., 18 Park St. South, Hamilton, Ont.
Without any obligation, send me complete informa- II III. tion about Fire Extinguishers for my property. I want || to protect property as checked:

## Home

Automobile

## Barns

Store












Crate Fattened Poultry Wout ere open for abimentso of Crate fatetend ${ }^{2} 0$ uaintiviny catehouse a son Flsh, Oysters, Game, Fooutry, Eges and

## 34-350 wout Dorchereter stroot, Montroen

## POULTRY WANTED




Twenty Choice Registered Ram Lambs,


week top veals sold at $\$ 23.50$, Tuesday none sold above $\$ 22.75$, Wednesday's
top was $\$ 23.25$, Thursday the hulk top was $\$ 23.25$, Thursday the bulk
brought $\$ 23.50$, and Friday best natives brought $\$ 23.50$, and Friday best natives
sold at $\$ 25$ and $\$ 25.50$ with top Canadians going at $\$ 23.50$. Native culls reached up to $\$ 21$, Canadian culls sold from $\$ 12$ and $\$ 15$ and grassy kinds from $\$ 7$ to $\$ 10$. Receipts the past week were 2,500 head, as against 2,160 head for the week
before and 2,250 head for the same week a year ago.

Pumpkin Time. Now the autumn leaves are falling
And the chilling breezes blow, And the clouds that sail above us Tell of ice and sleet and snow; Singing nany a cheery rhymeSinging many a cheery rhyme-
Need you ask of me the reason? Boys and girls, 'tis pumpkin time! Here they come with song and laughter,
Merry elves with face aglow! Each one, from small, chubby fingers, Swings a pumpkin to and fro.
As you look across the cornfild As you look across the cornfield Smiling fairies may be seenBoys and girls, 'tis Hallowe'en! The new clerk, who was from the
ountry, was approached by a fellow country, was approached by a fellow waised, mity dollars to buy the boss a a
birthdav present, and we want something hat will make a big she want formething ance hinst that will look hig, you know.
an you sugest something?" Then o mature reflection, Frank answered:
I think I have it. Buy $\$ 50$ worth

## My Dog.

Editor "The Farmer's Advocate" My dog is a mongrel. He is partly Scotch collie and the rest cur. He is worth his keep many times. He catche; gophers; he drivers the horses and cattle; he will hold a pig if I tell him to do so;he will chasea coyote; he will only bark at visitors in daytime, but will not admit strangers at night; he will guard a blanket or coat left by me until he starves; he will go with the kiddies (two little girls) to play and will see that nothing molests them; he will bark and chase away hawks. He used to eat eggs, but a good dose of cayenne pepper put wisdom into his head He stays in his own house and eats out of his own plate. He drinks out of the horse trough if his own trough gets empty. Now he never runs a ite th and chase cars, vehicles and the like either. He used to do that but a good licking the second time he was caught at it put him wise again. You ask how to train dogs? Just treat them humanely and feed and care for business they should be. Talk only Keep them them. Pet them little. fix a warm snug place for them whip or pull their ears when giviag backs until they are a year old at least, like that Childrent are sure to eat hairs and are cube dogs catch different diseases. If the dor is fed plenty he rarely goes seeking dead carcases. If he is treated with the respect
a dog should have he a dog shourd have he will obey and respect
those with whom he allow a dog to jump upon one with the forepaws, as they do not know Sunday clothes from any other and do not seem
to think of the may be on their feet In mud or manure or four months a dog is trained or he is hopeless beast ever afterwards. Two trips to town behind a rig or car and you
might as well shoo might as well shoot him. Show the dog
what to do and his instinct will what to do and his instinct will teach
him to do it if he is not abused dogs should be treated as young children in the way of rebuke. Punishment should be light but to the point. If the
dog has sense he dog has sense he will show it soon. If he eats as much as would raise a piq. Most dogs are a dirty nuisance and should
be killed

## Sask.

```
""Student Farmer."
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Agricultural Conditions in Manitoba.
The following summary of crop con-
ditions in Manitoha was recently by the Manitoba Department of Agriculture:
The average of the estimates given
by correspondents as by correspondents as to the wheat
yield
falls between
16 $\begin{array}{lll}\text { yeld } \\ \text { bushels to the acre: } & 16 & \text { and } \\ \text { to }\end{array}$ barley about 23 . Potatoes appear to vary considerably, but generally are not
heavy. The almost entire absence heavy. The almost entire absence of
frost has been remarkable: in most co the Province there has not been any
ond frosk whatever since about the middle of May, and common field types of Iodder corn have ripened abundance of
their ears perfectly their ears perfectly. The season has also been exceedingly favorable for all
kinds of tender garden melons, egg plant, fruit and similar hot weather products. Animals are doing well everywhere now, although several
correspondents mention correspondents mention flies and heat
as having bothered them during summer. In most places there is plenty of fodder for winter feeding, although hay, feed oats and potatoes are needed in parts of the south-western corner of
Manitoba and will be extended in the wav of locating these and making it possible to finance their purchase. The grasshoppers have Though wages are still to the present. period of acute demand for help is the In some places recent rains have caused the plow to be more used than the threshing machine, and there should be an
unusual amount of fall plowing done in
Manitota

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## Notice to Stallion Owners

INSPECTION OF STALLIONS COMMENCES

## October 21st, 1919

The stallion enrolment report containing route of stallion inspectors has been mailed to owners of enrolled horses. Any owner of stallions who has not received a report should write at once to the Secretary.

## R. W. WADE, Secretary <br> Ontario Stallion Enrolment Board

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October 9, 1919
Why Not More Sheep in Ontario?
Editor "The Farmer's Adiocate" A general survey of the live-stock situation in Ontario clearly reveals the
fact that there is still a great opportunity of increasing the sheep population of of increasing the sheep population of
the Province. It is quite a commen occurrence to visit progressive farmers by the score and find probably ors by a few who can boast possession of a single member of the woolly tribe of a single member of the woolly tribe,
This is a condition which should not This is a condition which should not exist for several reasons, and while there
was a slight increase in the number of was a slight increase in the number of
sheep kept, during the war, there is still sheep kept, during the war, there is still of flocks, but also the size of the individual flock. Perhaps one reason why more sheep
have not been raised in the past is the have not been raised in the past is the
fact that many farmers were under the impression that this class of live stock required practically no attention. Consequently they found that where improper attention was given in the way during the lambing season, that loss among the lambs was heavy; and ewes in poor condition resulted in a small
yield of mutton and a poor quality of yield of mutton and a poor quality of
wool. To-day, however, this condition is being greatly improved, as farmers are realizing more and more the necessity of proper care, etc., if they are to expect
satisfactory returns. The system of satisfactory returns. The system of wool grading is also doing much to encourage
the production of only the best class of wool.
On the other hand there are, I think, several good reasons why Ontario farmers should be encouraged to raise more Ontario farm is well adapted for the raising of at least ten head of sheep. Few farms are without a few acres of bush and other kinds of waste land. Moreover, water is usually found in plentiful quanti-
ties, either naturally or artificially ties, either naturally or artificially
There is little reason why a flock could not be kept to advantage.
A second important reason is the fact they require little attention as compared with other classes of live stock. This sideration, for the labor problem is becoming nothing less than a veritable bug bear to the average farmer. It must not be inferred, however, that sheep without some attention on the part of the owncr. Fortunately, though, this is required largely during the winter and early spring, when other farm operathe standpoint of labor there is a decided advantage in keeping sheep as one man could take care of ten or fifteen head with but little additional work. It is of importance, too, that sheep, owing to their
close-cropping habits, are good weed close-cropping habits, are good weed-
destroyers. It is a well recognized fact that where sheep are kept, less trouble is experienced in keeping in check the common enemy of the agriculturist-
weeds. Then, rood, sound, for no other reason, it is a purchase sheep. For it need scarcely be pointed out, that Europe's flocks and herds are almost depleted and it will
take at least a full decade before the live stock situation on the continent will be even normal. The same statement is true of England and so the and, especially Canada towards America of both mutton and wool supplies connection it is well to remember that sheep like swine belong to the "get-towill certainly class and for this reason the cattle population on the has resumed it normal level. The demand, in turn, will insure, at least, normal, if not high, prices to the farmers. one or two suggestions may of sheep, amiss. The best time of year to buy ewes is usually the fall-September or early october. Now that the fall fairs are in
full swing, there is to get the best. Also secure a sire and avoid the scrub for he will be a sure disappointment. A flock of ten ewes and a ram would make a good start and if given proper care, especially at
lambing time, should prove to be a profitable investment.

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$\mathrm{A}^{\mathrm{s}}$SK the dealer to show you the Bulldog Gillette. Notice the neat oval case covered with genuine leather. Included in this set at $\$ 5.00$ is a full dozen of the doubleedged Gillette blades, that made "NO HONING - NO STROPPING" famous all the world over.

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with a little grass, and there Mrs. Crow
lays 4 or 5 blue-green eggs thickly be-
speckled with shades of brown so the their coloring shades off into the color of the evergreen boughs that form a pendant
roof over the rude aftair that sever roof over the rude affair that serves for
a cradle for its young. A crow is a very "smart" bird, and I
use the word advisedly. It isntt to find their homes, even when you know they must be there. Crow-babies, like all young birds, have
very keen appetites and capacious
stomach very keen appetites and capacious
stomachs, and.crows are great
and when they lingers, and when they live near the water consume an astonishing amount of dead fish and crabs washed up on the beach by
the incoming tide, and besides take lots the incoming tide, and besides take lots
of insects, mice and young birds. In fact, crows will even tackle an old hen, as they did one day to a pair of our old Rhode Island mothers out for a walk on
the road before the house the road before the house. But while
crows will take even adult birds pester the lives of better birds by tearing up their nests and even destroying the meets his match and finds the row will give chase to the black bully that the king bird does, and if you have eve cen a crow with a king bird after him
you can't help but feel glad that Mr. Crow is getting a dose of his own medicine. while the king bird, whose teadlong name is Tyrannus tyrannus, which mical he is the tyrant of tyrants, he goes right
after the che and away frow, flying now over, Hinder back to pluck a feather from the same after he has exhaustel the ganmut of his perch. (hey aptive at the same The king bird wears a chip on his
shoulder, and when hesets uphis Flenene he publiskes that fact just as persistently The king bird hates with feather tribe hen any of these appear on the stend auntlet." It is the signal for a pitched Suddenly thinubles and sfoons and
nkets began to disappear from the

## MALTESE CROS TIRES



Gutta Percha \& Rubber, Limited
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Branches in all leading cities.
house. Nobody knew anything about the missing articles, and no trace or clue to
their whereabouts were forthcoming, when something possessed a boy to climb It is a notable feat to invade a crow's preserves in midair, and requires no small 'but then slay-up their quarters obliged to do." And it was an adventure such as the "lad o' parts" likes.
And there in the crow's house were the Himbles, spoons, etc. A crow has an anything bright. golf links, in England, in the Kew Gardens ye ubiquitous crow has been seen and even to attempt to get possession of the things, but, of course, he could secrete them for he is a cunningly wise old chap, and wisdom resides in his black
pate.

Looked Suspicious.—Gr-rr-r-h! The train drew up with a mighty crash and "Is it an accident? What happened? cred a worried-looking individual of "'Some one pulled the bell-cord!" shoutdhe conductor. The express knocked hours before the track is clear!" posed to be married to-day!" groaned the The con
The conductor, a bigoted bachelor, "Look here!" he demanded. "I suppose you ain't the chap that pulled the
"My Sally's done well for 'erself 'Her Bert's father was a banister of the Mrs. Higson bridled and turned up her nose with scorn. "I don't know nothing "but your banister," she retorted, that's a corridor in the Navy."

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new anything about the and no trace or clue to possessed a boy to climb eat to invade a crow's ip," to their no small s what a body is not $\mathrm{o}^{\prime}$ parts' likes e crow's house were the
etc. A crow has ant A crow has an
and has a penchatt for
Even on the Even on the famous
nd, in the Kew Gardens crow has been seen new flying golf balls
mpt to get possession his nest, but he might om resides in his black

Fh-r-h! The ions. -looking individual of "the bell-cord!" shout"The express knocked track! Take us four
ck is clear!"' our hours! I am sup-
to-day!" groaned the a bigoted bachelor, suspiciously
demanded. chamanded. "I supMrs. Earle proudly.
was a banister of the ed and turned up he don't know nothing ter," she retorted ter, she retorted,
lifred has a brother tlfred ha,

Live Stock in France. Extracts from a recent report of special commissioners from the United States,
sent to study agricultural conditions in France:
While there is no doubt that there is a shortage of horses as evidenced by the high prier forposes are selling, and that a
for work pur greater number could be used to good grevantage, it is doubtiul whether the shortage is great enough to interfere very materially with agricuitural pro
duction. Cattle, both oxen and cows are being used extensively for work purposes, especially in the central and south sections. Army horses and mules are being sold to civilians, and it is estimated shat from went of to from the various armies. The farm tractor also is being used to a greater extent than before the war.
The horses the writers have seen in France have heen, as a rule, in good
physicial condition and have not shown physicial conaition It and may be stated that
any lack of feed. in general they are better in average condition than horses seen in Enyland.
The writers attended a sale of British army horses and mules in Paris, on March
17 th. The mules sold for $\$ 125$ to $\$ 300$ apiece, which was about 50 per cent. higher than mules of the same quality were selling in the United States at the time the writers left there. The horses
sold for $\$ 120$ to $\$ 500$, which was about double what such horses would sell for in the United States.
Good horses of the draft type will sell at the present time for $\$ 400$ and up. Only
those horses which are unfit for work those lorser meat are sold ormea
While there is
France at present, it is not likely that any very large number will be imported from other countries in the immediate
future. Shipping space for live stock is future. Shipping, space for live stock is
difficult to obtain, and is needed for other purposes, and no doubt other means of supplying farm power will be utilized as much as possible.
Cattle- The deorease from December,
1913 to December, 1914, was 2119467 head, or $141 / 2$ per cent. The decrease from December, 1914 to June, 1917, was 224,939 head, or $13 / 4$ per cent. The increase from June, 1917, to June, 1918 , was ume that there has been a corresponding increase since June, 1918, up to
June, 1919, the total cattle population on the latter date should be about 14,247 ,000 head, or within 540,000 of the number
in December 1913 This increase in the number of young
animals was evidenced by the large numbers the writers have seen on the many farms they visited in various parts of
France. One of the most striking features of the cattle situation has been the large
number of heifers seen on both the farms of the large land owners and the farms of the
peasant farmers. These heifers peasanl armers. These heiliers are for
the most part well grown of size and in good condition. In fact, almost all the cattle were in good flesh,
having come through the winter physical condition. The few exceptions occurred where there was a shortage of
hay There appears to be an abundance of
pasture in all the parts of France visited by the writers, which comprise about one-
fourth of the departments. The pastures also appear to be in good condition. In many seations the farmers stated that there is a larger percentage of grass
land than before the war, on account of shortage of labor necesssary to care for
cultivated crops. This should insure cult ivated crops. This should insure
plenty of grass for the summer and fall
and plenty of hay for next winter Grain is not fed so extensively to cattle in France as in the United States, and con-
sequently does not play suct part in the production of cattle and dairy products.
The French Government has arranged to import a large number of cattle from
the United States. All kinds of live stock are needed greatly in the devastated area. The greatest need, however, seems Governor milk cows, and the French to obtain dairy cattle for this area in this area, is planning to importstance thousand head from tother countries. The plans include the purchase of some cattle in Canada, and it is reported that
alout 25,000 breeding cattle will be

$\int$ VER-CHANGING prices make 2 it imperative that the farmer markets.

The loss of one day's quotations may mean the loss of dollars to the farmer who fails to notice a change in prices.

The same with the womenfolk on the farm-prices of their produce frequently change. Before leaving for market on market days, they should see how prices are running in the principal markets of the Province.
The Globe enjoys a reputation for the absolute accuracy of all its news. This reputation it zealously guards.
Upon nothing is it more insistent than accuracy in its market reports.
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cattle also may be imported cattle also may be imported. Whether
or not any considerable number breeding cattle will be inumber private individuals will depend larey on conditions which developend especially after the signing of the peace trally encourage importation. ep-There has decrease in sheep. From a continued 1913 to June 30, 1917, this dec 31 amounted to $5,544,796$ head, or 35 per cent. of the total stock. The decrease 1,090,279 head, or more than 1018, was The greatest decrease appears to cent een in the number of ewes to hay reeding purposes. It should be re that the number of sheep these figures, decreasing from year to year eren he war. The writers have not, howere for ecrease in the number causp of this big Masse, in a report to the Miniter of Itture, on October 17, 1918, gave the in the number of sheep the greater ras as 28,000 and attributed war to the greater scarcity of sheph the the necessity of farm women devotin themselves to hard farm labor, and the price paid by the Government for wool during the war of which was requisitioned during the war period.
of Agriculture give thes for the Ministry for the years 1913 to 1918 , of swine showing a big decrease in the number of 1916 has been cole decrease since the number could be increasell, and quickly if conditions which would en courage an increase should develop. A and a favorale the present high prices of grain and potatoes stimulate a greater productiont would There is no meat-packing industry in France such as has been developed in the informed that there writers have been ham curing plants but most of the ciln and towns depend on the local abattoiss for their supply of fresh meats. The fresh meats also are handled to a lorge The French
accustomed to eating frozen or chilled meat, and for that reason there is a marked prejudice against imported meat. This prejudice may be illustrated by the April 11th. Home-killed fresh pork was offered at one stall in the cenral market at 5 francs a livre $(871 / 2$ cents a pound), whins American dressed frozen pork another stall in the same market for : 5 francs a kilo ( 44 cents a pound). This difference did not prevail with dry salt pork, as both local cured and American cured sides were being offered at 5 The Govern
the use of frozen m serve French cattle and build up the herds of France as rapidly as possible. soldiers had bece imported meat during the war, and that they probably would continue to use imported meat if it could be purchased to said that the demand for imported meat or four or five yeprobably will continue of France have been restablished on a pre-war basis. It appears to the writers, of the herds, the live-stock industry may reach the pre-war basis in a shorter
time.

A rather choleric golfer went out to play for the second time on a certain
course. Evidently his fame had precourse. Evidently his fame had prean interested audience of local youngsters. "What's this?" demanded the choleric one, gazing " at "the assembly.
"What do you want?" "Nothin'," was the non-committal rejoinder of the leader of the bunch. "Then clear off, every "There isn't anything here for you to watch!" "We didn't come to watch," tempting to move on. "We came to lis-
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considerable number of luals will be imported of depend larooly which develop, especially
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917 to June 917 to June, 1918, mer decrease appears to cent, umber of ewes kept for in considering the be re er of sheep ing these figures, er year to p in France was writers have not, howeyer to the vary satisfactory number of sheep this big rt to the Minister of A e in the number of sheen s as 280,000 and attributed e of decrease during the of farm women devoris, tard farm labor, and the of which was requisitioned period.
ive the for the Ministry 1913 to 1918, inclusive 3, but the the number of comparatively ould be increased. an ditions which would en the should develop. A season for th high prices potatoes no doubt ater production of guins meat-packing industry in The writers here are a few bacon been its, but most of the cities y of the local abattoime 0 are fresh meats. The refrigeration. eople, thus, have not been that reason there is a e against imported meat. nay be illustrated by the me-killed fresh pork was tre ( 87 the cenral market dress cents a pound), were being offered the same market for 5 4 cents a pound). This ot prevail with dry salt re being offered nt is trying to encourage n meat in order to conas and build up the hat many of the French ome accustomed to eating uring the war, and that t could be purchased to ious officials and others
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HE Briscoe owner is envied even by those who merely know the car by sightits well-balanced body-lines give it an appearance finer than that of any other medium-priced car. But it is under its graceful stream-line "hood" that you find the real reason for the popularity of this sturdy, powerful car-the world-famous Briscoe Motor is the feature that makes every Briscoe owner proud of his car.

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Gossip.
Southview Shorthorn Salle. Just two weeks ago on this date there appeared in the advertising columns of
this paper an item that should have been of special interest to Shorthorn breeders who are at present looking forward to purchasing a few excellent breeding
females this fall. We refer to the South vew dispersal which will be held at the Wednesday mile south of Tavistock on Wednesday, October 15. In all the the entire lot sells without reserve. As seen recently by a representative of this paper, the herd is made up of worthy ing of the breeding fremal, and, speakmilking the breeding females, splendid
throughout. Each of these have one or two and, in some cases, three heifers also listed, which is in itself a pretty grod herd of high merit. With very few exceptions these females all trace to that good breeding imported old family of Beautys, and a further review of the pedigrees of the younger breeding females
show that the best of sires only have been used in the herd. For instance, all the one and two-year heifers are sired by the royaly-bred former herd sire Secret bull got by Nonpareil Courtier, the latter being one of the very noted sires of the Province. The heifers from this former herd sire are an exceptionally promising lot, and several of them are shown in a
small illustration which appears in Mr.

Stock's advertisement elsewhere in this issue. These heifers are all bred and to the service of the present herd sire year-old bruce 114766 . This is a twoSyme tribe, and got by Victor, a Prin cess-bred bull by Royal Scott. He sells young sons as well as listed with four more daughters, all of which are choice and just the sort to be appreciated by all on sale day. Everything will be found in the best of field condition, or in just ${ }^{\text {th }}$
right fit to not only make excellent buy ing but also to go right on and do well stock is on the who buys them. TaviSound branch of the Grand Owen Railway, a few miles south of Stratford
and the Buffalo and Goderich line also only one and a half miles from the farm; C. P. R. connections for this line can be made at Drumbo. For catalogues ad-
dress C. J.Stock, R. R. No. 6, Woodstock and mention this paper. The sale begins at 1.30 p.m., standard time.
After two months at camp Private what he conceived to be the best use of his holiday by getting married. On the journey back, at the station he gave the gateman his marriage certiticket. The official studied it carefully, and then said:
for a long, wearisome jo. lorney, but not

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Hecla heating is warm air heating at its best.

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ter how old the furnace, these joints cannot separate and leak.

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Or write to us and let us lay the everything about the Hecl tell you everything about the Hecla-things you should know before you invest in any furnace. Ask our advice about a one we will guarantee to work properly and make your home cosy. This expert assistance and advice will be given without charge. Write, sending given without charge. Write, sending
a rough floor plan of your house.
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 ractory to the Chief xcept the same as No. ed seds to the ounce. may be procurct, seal sacks that have nd have come up to
ards with seals supplied ards with seals supplied t for this purpose. - "What's the idea of ed Farmer Corntossel, boarders arèn't playin Nations, so I'm lingerin' cattle an
ton Star.

October 9, 1919
Gossip. Montgomery-Kay Sale at Ormstown. There are many Ayrshire breeders in Canada to-day, those especially who held the interests of the breed at heart, who youncement with domery-Kay sale an first appeared in these cole weeks ago. Both Mr. Montgomery Mr. Kay have been, in the past reat strength to the breed in decade, of nimals that held prominent developing als that held prominent positions, chibitions but also ings of the larger Performance tests that have Record w years, played such an im the showing the sterling ent role Ayrshire cow towards worth of the uction. Labor conditions on both farms, however, have forced the sale, and the 32 head catalogued by Mr. Montgomery comprise his entire herd with the exception serving to form the nucleus of a new herd Mr. Kay is selling the surplus of ten years' breeding at Ravensdale. Referring the offerings separately, the catalogue begins with Mr. Montgomery's great which is probably the most noted three year-old Ayrshire sire in Canada to-day. Individually he is hard to fault, and, coming out as a yearling, he won grand fown 'Spring Show in 1917, when only wo weeks out of quarantine, and again captured the same honors at Sherbrooke the following September. In breeding he again is a son of the great Brae Rising is from a daughter of Holehouse Jean 6th, and Holehouse White Zomo, the latter being of the great bull Monkland Zomoblood of Scotland's most famous presentday families than any other sire in Canwill be retained to form the 1918 daughters new herd; all the cows are well forward in calf to him, and the several bull calves listed are all got by him. He himself should also prove the greatest drawing breeding females it might be well to the back to a few of the previous sires that have been used in the herd, and here each sire used has been imported. First ame Barcheski Cheerful Boy (imp.) by
Howie's Conductor and prightly Jess. Howie's Cond Howie's by Spicey Robin, which was a full brother o Spicey Sam, champion bull of Scotland or three years. He again was by Not he show-ring, and whose dam, Howie's Brookie, was a $10,000-\mathrm{lb}$. cow three years
in succession. in succession. Next came Hobsland champion Maple Leaf Jean; and then Morton Mains Planet (imp.), the outStanding champion show bull of Western Canada for the past five years; fourth in
service was Auchenbrain Sea Foam (imp.) by Netheral Good Gift, and also a noted championship winner, showing always in ire in service was Fairfield former Triumph (imp.), a son of the Main's Phat eact Peace." Thus it will be seen founded in 1903 has not only been imported but of the best breeding obtainstance a champion show bull as well Among the breeding females will be found daughters of each of these bulls and, true to their breeding, they have and Quebec's leading exhibitions. Then again there has been always several im ported matrons in the herd, all of which
have been mated and these as well as their get are dotted and these as well as their get are dotted further increase the interest of breeders who desire to make their selections from the best. Mr. Kay's offering begins with
lot No. 40 in the large, well-bred cow, and she, like severe others in the herd, is also bred to Mr . Montgomery's herd sire Auchinbay Sir Andrew. In fact, not only does this
sire figure prominently in many of Mr Kay's pedigrees, but in several cases each of the other sires mentioned above have been used more or less in this herd in the past. A perusal of the catalogu

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The "GALT" Shingle locks together in such a way that there is no weak point in its entire construction, and it is ornamental as well. It is, therefore, the Ideal Shingle for dwellings, Churches, Schools, Public Buildings, Barns, etc.

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8ABSOREINE Reduces Bursal Enlargements, Thickened, Swollen Tissues, Curbs, Filled Tendons, Sorestope Spavin Lameness, allays pain.
Does not blister, remove the hair or Does not blister, remove the hair or
lay up the horse. $\$ 2.50$ a botele at druggists or delivered. Book 1 R free. antiseptic liniment for bruises, cuts, wounds strains, painful, swollen veine or glande. If heals and soothes. $\$ 1.25$ a bottle at druggists or postpaid. Will tell you more if you Write. Mange in the U. S. A. by
Aberdeen-Angus
Meadowdale Farm Forest Ontario.
Alonzo Matthews H. Fraleigh

## SUNNY ACRES

## ABERDEEN-ANGUS

 write your want. Vimpit. Tinterested in Angus,
G. C. CHANNON

Alloway Lodge Stock Farm ANGUS, SOUTHDOWNS, COLLIES

## A ciocie lot of Angus oows in calf to Queen: EIWard. Collie puppies-A Aliter now ready:

 ROBT. McEWEN, R. 4, London, OntBalmedie Aberdeen-Angus
shows three sons of Auchinbay Sir Andrew,
one daughter of Fairfield Main's Triumph one daughter of Fairfield Main's Triumph,
a half dozen good breeding daughters of
Auchenbrain Sea Foan a half dozen good breeding daughters of
Auchenbrain Sea Foam, and then comes
a strong a strong contingent of young breeding
females all sired by Ravensdale Peter
P Pan, which was one of the best breeding sons of Auchenbrain Sea Foam. These
are females that carry a combination individuality and breeding seldom equaled in a sale-ring in any country, and to strengthen the offering further the young
bulls listed bulls listed may be said to be the most
important lot of youngsters important lot of youngsters ever cata-
logued for a Canadian auction. again of the opportunities offered by both herds, it is just possible that so im-
portant a lot of Record of Performance for-a public never before catalogued sale will be held in the in Canada. The exhibition grounds, Ormstown, Ouehe on Thursday, October 16, and there will
be positively be positively no reserve. For catalogues
write or wire ${ }^{\text {© Geo }}$. w.C., Dominion Express Bldg, Montreal

Patience Wins in Training a Dog.
Editor "The farmer's Adi ocate
A good farm dog is a valuable asset than nothing. To train a dog is worse in no easy task. In some respects it is is about as big a job as training a child,
and some people do it with as much care and some people do it with as much care,
The first things in training The first things in training a dog is to
make friends with him. No one can make friends with him, No one can
train s pup successfully who hates dogs, unless he can properly conceal his feelings, One who likes and understands them can
teach dooss and teach dogs and make them do things
that the uninitiated can never understand that the uninitiated can never understand.
When there is a real bond between the owner and the dog, the dog will soon
learn what his master likes like, and will do his best to pleast him. Dogs should be treated with real kind-
ness. $A$ man who kicks a dog whenever hes. happens to be in reach will never have a dog good for much except snappin will keep out of their reach wheneve anything useful is to be done.
A person's yar
visited on the house do should not be good we use him well, and if we fee of sorts we are cross and kick hin around, etc. It is not a wise plan.
Uniformity in training is desirable. Judicious praise will help train a do preaise him when he does something
well, and pat him to the well, and pat him on the head, he soon learns to act wisely all the time.
If a pup has a well trained
go along with he will learn how to drive and round up cattle and sheep, when to and best way. But he should easiest trained so much in this way that like a
spoiled child he tries to overdo it Whe he has learned to heel the cattle a little and to bark at the sheep and hogs, he times and alone with the owner some kindness, etc. He trill through praise
to his master respond to his master's wish but it takes several
months and sometimes years to get a
doo trained wost dog trained just as you want him. If he has to go out alone in the ning it may be wise to tie him with a
string and teach him to run after and heel cattle and pigs. He should learn to should be tied up for awhile and then
taught to follow or stay behind master wishes be kind or cross to strangers and to me kster's attitude to strangers by his
mith him the first
mew few imes a stranger comes around. The
dog will generally bark and sometines jump or bite at the stranger, but if re strained and quieted as soon as the
stranger comes in, he will soon learn :o beThe pup should not be allowed to rur
around with other does, but to with his master or stay around the home If he begins running around he suon plan to which are wrong it is a foolish plan the whip him after it is over. If he
can bee punished in the act it is good and
wise but coming to yut or he knows not what her
is being punithe for Remember annot reasua and as many dogs are
spoiled this way as in any other.


DEMEMBER, going through the moult is like going through IL a long spell of sickness. To force out the old quills and grow new feathers saps a hen's vitality.
If you expect your hens to be fall producers and winter layers then feed them Poultry Pan-a-ce-a during and after the moult

## Dr.Hess Poultry Pan ace:a <br> will start your puilets and moulted hens to laying

It contains Tonics that put your moulted hens in fine con-dition-Tonics that tone up the dormant egg organs-Iron that gives a moulted, run-down hen rich, red blood and a red comb. It contains internal antiseptics that destroy disease germs that may be lurking in the system. No disease where Pan-a-ce-a is fed. It pays to feed Pan-a-ce-a regularly
It brings back the singing-it brings back the scratching -it brings back the cackle. That's when you get eggs; and it's eggs you want-fall eggs, winter eggs-when eggs are eggs
Feed Pan-a-ce-a to all your poultry to make and keep
them healthy The dealer refunds your money if it does not do as claimed. Tell the dealer how many fowls you have and he will tell you what sized
package to buy. Always buy Panpackage to buy. Always buy Pan-
$\mathrm{a}-\mathrm{ce}-\mathrm{a}$ according to the size of pour flock. $35 \mathrm{c}, 85 \mathrm{c}$, and $\$ 1.75$ packales. $25-1 \mathrm{lb}$. pail,
$100-\mathrm{lb}$. drum, 814.00.

DR. HISS \& CLARK Asthand, Ohio

## Dr. Hess Instant Louse

 Killer Kills Lice
## 22 Scotch Shorthorns 22 AT AUCTION

 At Karama Dell Farm, 6 Young Bulls.Wednesday, October, 22nd, 1919 The Property of ROBT. MITCHELL, R.R. No. 2, Ilderton, Ontario The foundation stock of this herd is from the noted herds of Messrs. Watt,
Harry Smith and IT T Gibson hond frist



 a 2-year-old heifer by a son of Blarney Stone (Roan Blarney) the highest price bull at London Sale, 1915. The bulls in this sale range in age from 3
months to 19 mont two Clydectale fillies (imported) el ol ibibe There will be included in the sale
 Wgether with implem, hhere will be no reserve, and all the other farm stock, purchase this ! frrin will do well to to borrespond with Any person desiring to on merrning of cacte. Trains will be met at Komoka and Idderton stations Auctimesere. Capt. T. E. Roboson, London, Ont; $6 \%$ per annum of for cast Robt. Mitchell, R.R. No. 2, Ilderton, Ont., Prop.
 Bnation wit




kelmscott acrobat 4

The Kelmscott Herd of pedigree milking Shorthorns, Flock of Oxford Down Sheep and Stud of Shire Horses the property of
Robert W. Hobbs \& Sons
Kolmucott, Lechladeo, Gloucesterahire
SHORTHORN CATTLE
One of the oldest and largest pedigree herds in
existenc.i. Mill, Fresh and constiutoon sudied.
Daily mike recerds kent




 OXFORD DOWN SHEEP


 R. W. Hobbs \&ons are brecters of hirh chass SHORTHORNS \& TAMWORTHS

Educational Conference in Winnipeg.
Education in Canada is placed under the control of the provinces. We have
no commanding Education Association no commanding Education Association
for Canada. Canada has a large number or Canada. Canada has a large number
of enterprising, capable, enthusiastic teachers whose new ideas have little or
no outlet. The result is, they evaporate, they go whistling down the the
wind, and do not get a chance to have wind, and do not get a chance to have
themselves tried out. They should be themselves tried out. They should be
mediated to the Canadian people so that public opinion can express itself with regard to them, and so that the good grain may be separated from the
chaff. The fact that there was a forum chaff. The fact that there was a horum
for ideas would encourage teachers to for ideas would enc
formulate their ideas
This is one of the
tional Conference which is to be held in Winnipeg this mcnth, $\mathrm{Oc}^{+}{ }^{+} 20-22$. The plan is to advocate the establishment
of an unofficial bureau of an unofficial bureau of the ablest
experts that could be secured. The idea of the promoters of this project is that the bureau should be unofficial, without executive powers. It would simply guide
and assist the educational thought of and assist the educational thought of
the country. The results of its labors the country. The results of its labors
would simply be available for the regularly constituted educational authorities. The result would be that provincial
systems, instead of eperating in systems, instead of operating in more
or less watertight compartments, would represent a friendly emulation in the in the interests of the whole people.
Though this is the idea of the promoters
of the Winnipeg Conference the feld of the Winnipeg Conference, the field
will be open for will be open for the discussion of the
merits of this proposition from the mround up. Any alternative prom the can be discussed freely. What is desired is an examination of the educational
problem in the light of the problem in the light of the nation's needs
and our children's possibilities. and our children's possibilities.
Why should Canada to
agency for giving publicity in the an anency tor the bing publicity in the Dom-
inion to the best educational practice of the world? The date- Oct. 20-22, with an extra day, Thursday, Oct. 23 , for additiona
discussion of resolutions. The place-The Convention Hall
Board of Trade Building, Winnipeg, Man The onfers nce is being called by
Convening Committee Convening Commitee, composed of Win
nipeg citizens, under the chairmanship of Manitoba Aikins, Lieutant-Governo
The speakers-Twelve addresses are
already assuredalready assured having been chosen from
among the best known public men and among the best known public men and and England.
Discussion-Two speakers have been
provided to open the discussion after each address. Ther after (a) To direct public attention ternce: fundamental problems in our educational systems in Canada;
lation to Conadian citizeation in its relation to Candian citizenship;
(c) To undertake the establishment of a permanent bureau to guide and assist
the educational thought of the Representation is being asked from every organization and public body in
Canada If any overlooked, let us know. In is being ample provision is being made for ind viduals who will attend the Conference in their own capacity.
Rates-The railw
one and three-fifths rays have given us a
Expenses of delegates will be borne by Che organizations they represent. Information may be secured from the Chanlbers, Winnipeg.

Johnny paid his first visit to a farm
隹 other day. All his life he had lived in the heart of a great city, and when ine suddenly came in sight of a hay
tack he stopped and gazed carnestly at what appealed to him as a new brand
of architecture "Say, Mr. Smith," he remarked to the don't they have doors and windows farmer ". "That wind't a house, Johnny, was the scornful josh me, Mr. Smith!" suppose I know that hay don't grow in
lunps like that""

## LAST CALL <br> Southview Shorthorn Dispersal

Tavistock, Ont., Wednesday, October 15th


Wotroup of hoifors itrod by Socrot Champion, all

Comprising young cows with calves at foot, two-year-old heifers in calf,! yearling heifers and heifer calves, and three bull calves, as welldas the great two-year-old herd sire

## Victor Bruce, No. 114766

This bull is rlsing three years old, and carries a strong Miss Syme pedigree. All the calves listed are sired by this bull, the older breeding cows are all well forward in calf to him, and he sells fully guaranteed.
WRITE OR WIRE FOR CATALOGUE. ADDRESS: C. J. STOCK, R.R. No. 6, Woodstock, Ont.

Auctioneers: T. E. ROBSON, M. ROTH.
Plaster Hill Herd Dual-Purpose Shorthorms
up to 12,000 lbs. 15 cows and heifers heavy producers mostly all in verage over Leaf Record 96115 or Dictator whose two nearest dams ROSS MARTINDALE CAI

## The Salem Herd of Scotch Shorthorns <br> HERD HEADED BY GAINFORD MAROUIS, CANADA'S PREMIER SIRE

 at Toronto and other large exhibitions than those of any othersite. Wore as females bred to Canada's greatest sire.
J. A. WATT

Elora, Ontario
BRAEBURN SCOTCH SHORTHORNS 150 Head

100 Breeding Females
I have at present twelve young bulls that are now nearing serviceable
by my present imported herd sirie, and we ware now nearing serviceable age. The majority are dited
one sire in Canada. They as are good individually as the get of any other on 7 O2 1 .

## SCOTCH SHORTHORNS

PRESENT OFFERING:

## J. A. \& H. M. PETTIT

Freeman, Ontario
ROBERT MILLER, Stouffville, Ont., Has EIGGTT of the best young bulls that he beut


GLENGOW SHORTHORNS AND COTSWOLDS
 tations: Broskin, G. T. R.; Oshawa, C. N. R.; Myrtle, C. P. R. WM. SMITH, Columbus, Ont,
 SPRUCE GLEN FARM SHORTHORNS JAMES McPHERSON \& SONS DUNDALK, ONTARIO
two-year-old es, and three bull

66
a strong Miss
this bull, the
f to him, and he
ADDRESS:
dstock, Ont.

Shorthorns


Shorthorns
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Elora, Ontario THORNS Broding Femalea


## HORNS

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RTHORNS LK, ONTARIO

October 9, 1919
THE FARMER'S ADVOCATE

## Shorthorns For Sale


 SOCKETT BROS. R.R. No. 5 1) Wrestling Boolk ITREMG
 cholo eroan grand doon of
andid lambes, elther sex. $\frac{\text { GEO. D. }}{\text { D }}$ Rocl


Trvin Scotch Shorthorns $\begin{gathered}\text { - Herd Sire Marquis Su- } \\ \text { preme } \\ \text { guis } \\ \text { Gainford Mar }\end{gathered}$ present three young bulls of serviceable age and one younger, all sired by our herd sire and from
scotch bred dams. Good individuals and the best of pedigreese. Also pricing a few females.
WALNUT GROVE SHORTHORNS AND OXFORD SHEEP e are orehis onder. Also a few yearling and ram lambs ior sale
DUNCAN $B R O W N$ \&
P.M. M. C.R.

DON-ALDA FARMS, Todmorden. Ontario Young herd sire, Don-Alda Pontiac Artis, for sale; calved
April 5 , 1918. Sired by King Pontiac Artis Sylvia. Dam Aprity Wayne, 29 ibs. butter in seven days. Also a feew younger
bulls by our herd sire, Sylvia Segis Raymondale, from highrecord dams. Our herd sire is grandson of May Echo Sylvia.
His dam, De Kol Plus Segis Dixie, made over 32 lbs. as a His dam, De Kol Plus Segis Dix
Senior 4-year-old. Call or write.
MR. COWIE
Resident. Foreman

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THE HOME OF 20,000-LB. COWS
Write us about our herd of 20,0000 -lb- R.O.P. producers. Every one is a choice indi- ididual-the bree
R. J. GRAHAM, Montrose House Farms.

BELLEVILLE, ONTARIO
Raymondale Holstein-Friesians
herd sire of our breeding will improve your herd. We have sons of our present sire, Pontiac
Korndyke of Het Loo (sire of 312,750 Het Loo Pieterje), and also sons of our former sire,
vondale Pontiac Echo Several or these are of serviceable age, and all are from good
reoord dams. Quality considered, our prices are lowert han anwhere else on.
record dams. Quality considered, our prices are lower than anywhere else
the continent. These youngsters should not remain long. Write to-day.
RAYMONDALE FARM
D. RAYMOND, Owner Vaudreuil, Que

Queen's Hotel, Montreal
Hospital For Insane, Hamilton, Ontario We have yearling grandson of King Segis Alcartra Spofford-a splendid individual. Also fine bulls of younger age, prices reasonable Apply to Superintendent.

Manor Farm Holstein-Friesians
 GoRDON S. GOODERHAM, Clarkson, Ont.
Gen miver
 CLOVERLEA FARM HOLSTEIN FRIESIANS Our present offering consists of two choice young bulls ready for service. Priced
right for quick sale. Write GRIESBACH BROS., Collingwood, Ont. R.R. No. 1 Cedar Dale Farm - The Home of Lakeviow, Johanna Loetrange, the $\$ 15,000$ sirochief sire in service. We are ofiering a few females bred to him, and also have a few bull calvee sired
by hime at
Kight prices. Other older rulls, sired by our former herd
Bire, Prince Segls Walker, ono of King Segis Wal
Orono, Ontario



## PIONEER FARM HOLSTEINS

WALPURN RIVERS \& SONS R.R. No. 2 Ingersoll Onta WALBURN RIVERS \& SONS
 Men I Have Holstein Bulls and Females daungters of $\begin{aligned} & \text { at } \\ & \text { sired by }\end{aligned}$ sired by Baron Colantha Fayne, a, son of Canada s
same breeding. If you want Holsteins, wet my prices.
T. W. McQuoen. Ox

## 4 HOLSTEIN BULLS FOR SALE






## Evergreen Stock Farm Registered Holsteins



Communism and Demo cratic Progress.

## 

All great revolutions of the past have concerned themselves with political rather Russian revolution is ands, but to this It is impossible to stand aside and attempt to carry on our own affairs in isolation irom those of the rest of the world for whether we will it or 'not these earth shaking events will make their effecto felt here. Not less than $180,000,000$ people are involved in the great Russian experiment in communism, and its success or failure is a matter of vital concern to the nations which are confronted with similar problems elsewhere. And
while men occasionally think, or say that they are "through" with politics, they can no more get beyond the scope of politics than they can get out of their skins-since, as Aristotle has shown, live outside of the organized community one must be either a brute or a god
It seems perfectly clear that whatever faction the Russian peasant or artisan aligns himself with he has embraced This is true alike of the Bolshevist and of the Social Democrats and of various parties in between, and underst-od that it is not a matter be anderst od that it is not $a$ matter merely
of the distribution of the wealth that has been produced, the making of the rich poorer and the poor richer, but a radical reformulation of the terms and conditions
under which the productive processes carer which the productive processes are
carried on. The main body of the peotle feel that the great object to be sought by the revolution is the giving to each worker the opportunity to create something for himself, in the first instance, The Russians believe that the unforgiveable
sin of the bureaucracy, during the regime of the Czar, was not political in nature but economic-the denial to the workers of the tools of production, of access to
the land, the mines, and the other source the land, the mines, and the other sources
of wealth
That the people have inherent and indefeasible right to the use of the natural sources of wealth
is the profound conviction of the masses in Russia; and no amount of mere abuse will alter that conviction, which amounts It is true that the Bolshevists have committed terrible exceesses, and for these no excuse can be offered or made. It is quire certain that the nation itself will
deal with Lenine and proper time comes, and that when the be called to accout. A govern went based u-on force alone) car not endure and we may be confident that the Russian people will know how to deal with tyrainny it may be pertinent to r mind ourselve that the civilized govern ents of the world ha diplomatic relations with the Sultan of Turkey and other corrupt and autocratic rulers in days gone by
and that no one expected to see the world made over in a day. It was freely stated after the Napoleonic wars that republics and monarchies could not co-exist, and dat the one political system meant the
destruction of the other-and yet flourished side by side for a hundred years and more. If that could be ac
complished while the people were still uneducated and without political experience, it is not too much to hope that
in our day two great systems can exist side by side, each learning something
from the other. Even during the day of the Czar's regime with little or no encouragement and scarcely any of the
essential materials at hand, the Russians accomplished marvels in their co-operative enterprises. Indeed, it was only through
co-operation that they were able to ive Cahadian farmers, of the west partic-
ularly, have been profoundly in co-operative experiments, through which they have attempted to free themselves from the burdens and wastes involved in ruthless competition. Whether the Russian Soviet Government lasts or munistic experiment will be continued in Russia on a great scale. The real
problem in Russia,


My Price Protects You $Y^{\text {OU may be told that you can }}$ buy overalls equal to Car. hartt's at a lower price. Be-
lieve me. you can $n$ No $N$ No one can. The fine cuality of Carhartt's and the fair price at which they are
sold are due to my enormous out. put-probably the greatest on the continent, which enables me to do
with a alight profit. can any manufacturer. How then fess in a smaller way, with leesopportunitice of sutting expense oope to give as much value as
Carhartis, for less money?
Be seured of this: That if it were oosible to offer you the present
uality of Carharttic at price I would be the firt to do it


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## Cream Wanted

Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guara

## Ontario Creameries

LONDON
ontario
political but economic in nature , tul centres about the question astore whent
the Soviet can carry forward the e eomenemet the Soviet can carry forward the economed
activities of the nation more efficienty and effectively than any other efticently ment that could be established, govern. the right soluthion whole matter, and by Soviet will statand or fall. Inat problem the and the United States there is much dis? satistaction with old methods of proimpossible that we can learn something oour advantage from the experiments Iust
what the Bo poople areviki have dhinking abouit of confiscating private property way the like, in setting up the new regime
But their
violent mines, railroads, and the like, is neretrivitibe and comparatively unimportant in in come parson with their attempt to organize proatuction and distribution on a a new
basis. .ff they fail in increasing the eumm total of economic goods, and in increasing the opportunities lor the masses to im.
prove their fail altogether What of of in, they therefore, is that the Russian peoplestanail establish a. poiticical system that will respond quickly and effectively to their tiees for and that will enlarge the opportuniReformers of days gone by have bean confronted with the same problem, and or the most part have failed in finding the disciples doctrine of the simple life preached the vantages of the self-sufficing community But ine in our day is too complex and nature being of being made with -ory, at any rate, The organized Russian community, if it munistic determines to adhere to compropriate mines and not only apands for the common good, but operate has ever been done in the past scale than essential is that the national equipment be utilized as never before, and that the propizationcome be increased by better for education, and that a certain amount f leisure be assured the individual to make him not only a better worker but trange that, with all our command over nature, the average man, whethe in Russia or in America, should be denied I te ature of his calling but the opportunity to improve his mind also
In one sense the new Russian Governnot have a difficult task in this form, will under the old regime the wonderful esources of the country were but indifferently utilized, and the people existed It is computed chronic want and misery. masses were chronixty per cent. of the ived under what the averader-fed and would regard as impossible conditions. The clothing was coarse and inadequate to the climate, and the housing not fit or brutes, not to mention men. Hours under which work was carried on intolerable. A Government devoted to the nterests of the people could hardly ail to better the economic surroundings Severtheless the artisan class justify itself, must be able to is to omparison, not merely with former conditions at home but with the best Itsewhere as well.
Harticularsortant to observe just in what will differ in its rom that obtaining in the nations of western Europe and America. As is ell known our economic structure rests of profits and the submission the making the discipline of capital The survival of the fittest, the crudest kind of applicathe of the Darwinian theory, hes at he bottom of our economic hife. The phy-one that is abhorrent to the Bolsheviki and the social democrats alike, The leaders teach, and the masses believe, hat economic goods should be provided whether to needs, and that each adultservice according to the ability of the worker concerned. The Russian programme is but crudely formulated as
nomic in nature, and ry forward the economit nation more efficiently han any other governwhole matter, That n of that problem the tates there is Canada old methods of dis. ribution, and it is not from the experiments ole are thinking about private property, and ig up the new regime, nd the like, is negligibible y unimportant in comdistribution on a new
il in increasing the goods, and in increasing nomic condition to imWhat is of importance, ical system that will 11 enlarge the opportuniliving for the corminiays gone by have been he same problem, and the French Revolution Rousseauch Revolution imple life, and the aday is thing conmunity, of any appeal of that th any, at any rate, issian community, if it es, must not only apand factories and mon good, but operate e in the past. The one er before, and that the be increased by better that opportunities ured the individual to nd man. nder worker but th all our command average man, whether merely to master the nd also.
e new Russian Govern. ts ultimate form, will task in this particular,
regime the wonderf ountry were but indiffonic want and existed at sixty per cent misery. nically under-fed and impossible conditions. coarse and inadequate mention men not fit sive, and the conditions
was was carried on intolerpeople could hardly economic surroundings new Russia, if it is to ust be able to bear to observe just in what economic programme and in the nations of conomic America. As is dual thrift, the mating submission of labor to capital. The survival
rrudest kind of applicavinian theory, lies at repudiate the. The abhorrent to the Boland themocrats alike, ds should be provided and that each adultto the ability of the - The Russian rudely formulated as


This sire plays an important role throughout the entire sale. Several of the good record bull calves are sired by him and all of Mr. Montgomery's breeding females and many of Mr. Kay's are selling well forward in calf to his service. He was imported as a yearling and went fresh from quarantine to the Ormstown Show in June, 1917, where he swept the board taking the grand championship over all ages in the best company to be found anywhere. The American Ayrshire Quarterly (October, 1918,) under the heading "Ayrshires at Sherbrooke,"
says:-דThe sensation of the two-year-old class was the flashy Auchinbay Sir Andrew (imp.) owned by George H. Montgomery This bull is par excellence embracing quality, size, substance character and dairy qualities., This bull was afterwards made senior and grand champion.'

In the reading columns of this issue appears a short review of the sires that have been used during the past decade in both herds, and while many of the foundation cows are equally as worthy of special mention, we have not sufficient space to discuss them at any length. To those, however who are at all conversant with the breed it is sufficient to say that among the more representative ones appear such cows as Morton Main's Greenside (imp.), a grand champion winner in 1916, who made 6604.5 of milk and 30 lbs. of butter-fat as a two-year-old; Netherall Kate 2nd (imp.), a 9,386-lb. four-year-old; Lakeside Daisy shown above; Lakeside Rosebud, a 10,158 -lb. R.O.P. two-year-old daughter of Barcheski Cheerfur Boy (imp., Lakeside Butta, a $7,455-\mathrm{lb}$. two-year-old; Lakeside Circe 3rd, an $8,367-\mathrm{lb}$. four-year-old daughter of Auchinbrain Sea Foam; Lady or Rainerside, junior champion at Toronto in 1917; Ravensdale Lovely Rose, a first-prize winner at Ottawa and Ormstown; Morton Mains Glawourie (imp.), an R.O.P. daughter of Morton Main's Butterscotch, etc. There are a dozen or more others that are well worthy of special lot throughout, and the entire sixty selections should all appeal strongly to those who are buyers of the best.

For catalogues address: George H. Montgomery, K. C., Dominion Express Bld., Montreal, P. Q.

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## Shropshires <br>  Cotswold

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Re'gistered Shropshire Rams We have two yearling and a
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## SHROPSHIRES

 Shearling and ram sambs by importedAlso a few ewes, all stock my own breeding.
Eam

## LEICESTERS

Oxford Downs ram are offerines numbero of
R.R. No. 5 MOUNTAIN, Linden Fratm

Reg. Oxiord Fown Ram Lambs. Reasonable
Dution ont. a. Mce Marlane
Shropshire and Cotovold shoob-A f face lou


 OXFORDS

yet; but it is ufficiently clear that in
some fashion or other it cor
 thil eompeniling claims of seryice. Thrit
will no longer be looked upon as a virtue,
in as the individual, in old age, will be
provided for by the state and only sufficient thrift will have to be practiced Io take care of immediate necessities
It remains to be seen whether tho ination of profts senll seriously impair
the officien the efficiency of the workmen, or sender
less effective the utilization of the tools of production.
Rusiang the period of transition, the to be paid, and will also expect to provid exceptional wazes for exceptional servicice
-but only in the interim between the old - but only in the interim between the old
order and the new. Once all industries are nationalized, it is expected that the
capital ossention ments and new plar extensions, better
fill be provided
for tut on for out of surplus earnings, just as many of the great modern corporations secure
required funds for improvements out of their reserves, which have been accumuthe essential thing is to see that there a surplus by means of which improve In Germany, before the can be made had been brought to a high pitch of perfection. The cartel was simply a
organization by organization by means of which trade
secrets were shared, and improved industrial processes made common property, has met with such phenomenal success at least in a large part, because it has
placed each unit in the combination placed each unit in the combination on
the most efficient basis possible, by sharing methods and processes and making ful duction. All these advantages ar claimed for industries organized on a communistic basis. It is maintained that profit, all the means by which, and not lishment has achieved success would ber freely placed at the disposal of the other units in the different districts of the country. Nevertheless, this leaves ou payment according to results effect that upon the elimination of wastes of opera tion and the development of industry on a giant scale, on this continent and in
western Europe. In the first in
will rely upon pride in the communist consciousness of duty done, to mork, the
standards or improve them. If that will not suffice there will be officia ecognition of some sort or other. If the
manager and his men fall behind the mark of reasonable service and if they fail to improve upon fair trial, there will
be penalties ranging from reproof to dismissal. If the record of the commune continues poor it may be boycotted by
the entire national orgarization. It is
plain that the penalties unusually severe under autocratic rule of this nature, but they are harsh enough
under the discipline of the capitalistic system. Men who have failed under our but under the tyranny of extreme com munism they could never hope to establish
themselves again. The Russian communists thus propose of governmental control of industry and
the life of the individual that offers no attractions to the Anglobased their entire economic and political
life upon individualisns: and self mination. Lenine has announced that
the Soviets must control the press and the the Soviets must control the press and the
schools, in order that no subversive factor may operate and threaten the stability hand, with all the defects of our social the war period -has been the bulwark of liberty in the United States and the
British Commonwealth. In other words there has been room for every variety of opinion; and, in theory at least, the
minority has had the right to convert It could. It may be quite true thinking matter what Government happens to be in power in Russia compulsion will be ut autcocratic methods will never make a and thr that reason Bolshevism carries
with it far less menace than many people appear w think.
It is difficult to predict, and futile to


100 OXFORDS ${ }_{\substack{\text { RMEs } \\ \text { EMin }}}$
IN GREAT UNRESERVED AUCTION Fergus, Ontario, Wednesday, October 22nd 20 Shearling Ewes 40 Ram Lambs 7 Two-shear Ewes 20 Twe Lambs
Fifty per cent. of the lambs are sired by the imported Hobbs-bred ram, Kelems Scotonia (452) of 17. This offering is a choice one throughout, and TERMS.-Cash, or 6 months' credit will be given on bankable paper Sale held in village, 300 yards from C.P.R. and G.T.R. stations.

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We are offering Ewes and Rams of both breeds fitted for show purposes or in field condition. All
are selected individuals, true to type and sired by our Show and Imported Rams. LARKIN FARMS, QUEENSTON, ONTARIO.

| Elm View Oxford Downs - Thirty selected flock headers. Thirty yearling yearing rams too ewes; all first-class. Write for prices. <br> Bruce A. McKinnon, R.R. 1, Hillsburg, Ont. |  |
| :---: | :---: |
|  | al ram lambs, priced to sell and a few good ewe lambs. Also Shorthorns. |
| SHROPSHIRES <br> 11 ram lambs, 1 yearling ram, 1 three-year-old ram (extra). Also a few ewe lambs. All registered. A. S. A. Mason. <br> D. HYNDMAN, Port Stanley, Ont. Bell Phone |  |
|  | sired by imported ram of Kellock breeding. alex. gray, Claremont, Ont. |
| OXFORD DOWN SHEEP |  |
| Present offering is between ninety and a hundrica's Phioneer Flock specialty. Also a number of shearling and two shear ewes of the best breeding, and ram and ewe lambs. All registered. Prices reasonable. HENRY ARKELL \& SON, 70 Beatty Ave., Toronto Can, |  |
| Bowhill Leicesters - A few two-shear rams in shearlings and lambs, borth rams and and ewes. Also Shorthorn bulls and heifers. GEO. B. ARMSTRONG, Teeswater, Ont. | R |
|  | hropshire ewe lambs and young ewes, Clydesdale stallions, four Shorthorn bulls. |
| Clear View Sheep and Swine for Sale-Sixty Leicester grade sheep, including pure-bred choice ram. last sheating averaged over 9 lbs., and averaged $111 /$ lambed. Imprord Downs. including a very to breed. and choice literess weaned, bred from imported show stock. Must sell to make room. ANTHONY GIES, R.R. No. 1, Waterloo. St. Jacobs, G.T.R. Station. |  |
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one throughout, and
on bankable paper
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rgus, Ontario

is \& Sons, Avimer, one


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ONTARIO.
ORNE LEICESTERS
 Peterboro R R 4. out
 weo Kellock breeding
e wews. Prices reasonable.
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$x^{2}$, max

## R SALE

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 croved orithiremon

## K oxford:

##  Sill

 tion.The Farmer's Advocate

October 9, 1919
xtremists in temporary control in Russia have been obliged to make compromises Managers have been appointed at high Manages to take charge of various industrial enterprises, and extensive use has been made of the co-operative societies, which have been the biggest factor in keeping he economic infe of the nation functioning indeed, in the direction of capitalistic organization of industry; and with an approach to normal conditions Boishevism its present form at least, will fall of its Undoubted Undoubtedly, the current of world
vents will not leave Canada unaffected. A survey of events will disclose the fact that the people have made great progress in the art of self-government, and are
ready for further progress. This must come, in part at least, by making service count for as much as profits in our economic affairs, and by democratizing our be discussed in a later article.

Grain Yields in Canada.
The Dominion Bureau of Statistics ssued Sept. 18, the following report in Canada, as complied from the returns of Crop Correspondents at the end of August.
Preliminary Estimate of Grain Yields. In the Prairie Provinces, the dry growing period and resulted in one of the arliest harvests on record Ane of the sequence of the drought, a large prosequence of the drought, a large prowheat oats, barley and rye proved either wheal, oats, barley and rye proved either Crop correspondents throughout Cand were asked to return at the end of August their estimate of the percentages of the areas sown to these crops that were entirely unproductive or were cut green; but it is only in the Prairie Provinces that substantial percentages were re-
ported as unproductive. These perported as unproductive. These permuch as 28 for wheat and 30 for oats in Alberta and 42 for rye in Saskatchewan. Taking these non-productive areas into mates of total yield for all Canada are arrived at. Wheat 199,239,800 bushels, 1918. Of the total for $1919,22,875800$ bushels are fall wheat and $176,364,000$ bushels are spring wheat. The estimated as compared with $426,312,500$ bushels in 1918, of barley it is $65,584,000$ bushels as against $77,287,240$ bushels in 1918; of rye the yield is $8,010,500$ bushels, as compared with $8,504,400$ bushels in 1918
and of flaxseed 7,350 000 bushels against $6,055,200$ bushels in 1918 . rain Yields of the Prairie Pr
rain Yields of the Prairie Provinces The estimated total production of
(Manitoba, the three Prairie Provinces $162,326,400$ bushels, as compared with 164,436,100 bushels in 1918. In Mani$36,999,109$ bushels of wheat for 1919 is $48,191,100$ bushels in 1918; in Saskatch ewan 88, 21,000 bushels, as against 29,493,000 bushels, and in Alberta 37,bushels.
Eushels, as against $23,752,000$ in the three Prairie Provinoes bushels pared with $222,049,500$ bushels in 1918; arley $45,988,000$ bushels as $47,607,400$ bushels; rye $5,722,000$ bushels $7,009,000$ against $6,181,700$ bushels, flaxseed
bushels as against $5,776,000$

Conditions of Late. Sown Fiead and Rain showers during August in the the later sown field much to revive 3 Their average condition on August 31 for the whole of Canada, expressed numerically in percentages of years 1909 - 18 yield per acre for the ten
Peas reported as follows: grains, 87 , corn for husking 89 , 95 , mixed 91, turnips, mangolds, etc., 99, fodder

## The Balanced Ration Pays



Which one of these bacon hogs would you rather get paid for? Imperfect feeding will get you a certain amount of bacon, but it is one of the causes of soft, flabby quality. On the other hand, the use of Monarch, a properly mixed and balanced ration supplying everything the hog requires in exactly the right proportions, will get you far more bacon to take to market. Experience has shown that hogs make larger and more economical gains when fed with

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The quality of bacon wilh be firm and of good texture, which is essential f you wish to get the highest prices. Monarch Hog Feed is properly mixed and is very palatable; no single feed can equal it. Its high protein content is splendid for growth, and the nutrients are so mixed as to supply every requirement for growing pigs. It gives them stamina, energy, vigor and size.

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## NORTHERN ONTARIO <br>  Thousands of farmers have responded to the call of this fertile country, and are being made comporable and rich. Here, right at the door of Old ts you. For full particulatars as to terms, regulations, and settlers' rates, write H. A. MACDONELL, G. H. FERGUSON <br> PARLIAMENT BUILDINGS, TORONTO.

Tamworthsfor Sale Oak Lodge Yorkshires


Duncan MacVannel, St. Marys' Ontario J. E. Brethour \& Nephews, Burford, Ont. ELMHURST LARGE ENGLISH BERKSHIRES From our recent importation of sows, together with the stock boar, Suddon Torredor, we
can supply select breeding stock all ages.
Satisfaction and safe delivery guaranteed. H. M. VANDERLIP, Breeder and Importer, R.R. I, BRANTTORD ONTARIO

## YORKSHIRES

We are now booking orders for Fall pigs, both sexes. Several
large litters to choose from. WELDWOOD FARM, Farmer's Advocate

INVERUGIE TAMWORTHS
$\begin{aligned} & \text { Boars ready for service; young sows bred for fall } \\ & \text { farrow; extra fine lot of little stuff just ready to } \\ & \text { wean. }\end{aligned}$ Leslie Hadden, Pefferlaw, Ont. R. R. No. Fairview Yorkshires - Hiters, 8 ofiering three of good breeding and quality. If iters, 8 weeks old.
me for prices.

 weinashire pion boart 1917, and first prize boor irmer two bred the grand cham; J. B. PEARSON, Managert CREDIT GRANGE FARM, Moadowvalo, Ont. | Prospect Hill Berkshires-Young stock, either | Meadow Brook Yorkshiros-We have a choice |
| :--- | :--- |
| sex, for sale, from our imported | Meater |





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Sunnside Cbooter White end Doroto-

 Have three
aure bred York Boars for Sale,

E. J. BRADY, Glanworth P.O.


## Remember the Date <br> October 20-22

National Educational Conference

## At Winnipeg

PROMINENT SPEAKERS-LIVE SUBJECTS


${ }^{2}-$ "The Lemongo of the War for Candian Education," Hon. Dr. Cody, Minister of
3- "The School and the Development of Moral Purpose," Dr. Theodore Soares, Pro-
fessor of Religious Education, University of Chicago.
4- "The Development of a NationalCharacterThroughEducation,"SirRobert Falconer,
-"The Essential Factors of Ednc
6-The Boy Scout Movement as an Auxiliay to the Sehool in Moral Training," Dr.
James W. Robertson; Dominion Commisioner of the Boy Scouts.
7-"Methods and Ideals of the Canadian Standard Efficiency Training Groups," Taylor
Statten, Notionel Secretary Borsi Wort
8-"The Function of the Public School in Character Formation," Dr. J. F. White, Prin-
cipal Ottawa Normal School.
9- "Education and Reconstruction," Peter Wright, British Seaman's Union.
10 -"The Basis,of Moral Teaching. ${ }^{\text {" }}$ Michael $\mathbf{O}^{\prime}$ Brien, Toronto, Ont.
11-"The School and Industrial Relationships," Dr. Suzzalle, President University of
12-"The School and Democracy,"' President John H. Finley, Commissioner of Educa-
tion for the State of New York, Albany, N.Y.
13- "The School and the Newer Citizens of Canada," Dr. J. T. M. Anderson, Director
of Education among New Canadians, Regina, Sask.
14-"The Interest of the State in Character Education," Dr. Milton Fairchild, Wash
ington, $\mathbf{D}$.C.
The task of initlating discussions has been assigned to persons representative
of all parts of Canda. Among those definitely secured at this date in this con-
nection are:
Dr. Clarence McKinnon, Principal Pine Hill College, Halifax, N.S.; Prof. H. T. J. Cole-
man, DDan of Faculty of Education, Queen's University, Kingston, Ont; J. J. Tompkins,





Delegates to the Conference should make their hotel
The following commitees are at your service: Reception, Entertainment, Transporta-
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505 Electric Chambers

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Jersey Cream Sodas
Sold fresh everywhere. In sealed packages.
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## Our School Department.

The First Dairy Lesson. Our first dairy lesson will be in the form of a little question bureau. We want you to ginc out certain things for remain there Anything which is easily learned is often soon forgotten.
We shall first get the image of a good/ dairy cow in our mind and from this we shall proceed to the production of milk,
its care and manufacture into many its care and manufacture int
articles for human consumption.
In another issue we shall-indicate the good points of a typical dairy cow, but in the meantime, we are going to ask you to study the various cows in your father's
herd. Have the best cow in the herd herd. Have the best cow in the her
pointed out to you, and then study her point by point. When comparing the best cow with others not so good, make these observations:- (1) Has she a large or small muzzle? (2) Is, she
narrow in the or
wide have a short thick neck,' or a fairly long thin one? (4) Is, she wide and fleshy on top of the shoulder, or rather pointed? (5) Is she deep and thick back of the shoulders or is she inclined to be smaller
there than the inferior cows? (6) Is she deep in the side with plenty of room for feed, or she is small about the middle? (7) Has she a large or small udder? (8) Can you notice any large veins extending
from the udder forward? (9) If she has any, are they straight and small or full and winding? (10) What can you find where these veins end farthest from the udder? (11) Is she short or long in the rump and quarters? (12) Does
she consume as much feed as the other she consume as much reed as the other
cows and is she fat or inclined to be thin but thrifty?
We are going to ask you to make these observations for yourself, and in another
issue we shall tell you just how a good issue we shall tell you just how a good
cow should appear in regard to these twelve points mentioned.
that the school fairs have grown: popuart the fall fairs that are run altoyoth by the bigger folk who like to go to a but often do not help build it up by
contributing exhibits. Indeed, contributing exhibits. Indeed, juat il held only a few days befor had bean were informed that the exhibits were not nearly up to the level of the Kemptivile School Fair. We did have the privilege of visiting a fall fair held near Kemptville shortly afterwards and although this was one of the good fairs in the
district the exhibits wre sumerior to those of the very much There were, of course, more kinds of exhibits, but we could not help noticing a lack of enthusiasm that was shown by the school fair. There were a great
many people there in spite of able weather and the fair was a poot to but the people were interested in socing each other and meeting socially.
One of the outstanding features about school fairs as we know them is the com. petition between schools. A A trophy was
awarded at Kemptville for the winning the highest number of shmil and just as soon as the fair was over. everybody was eager to know what school had won the silver cup. The school parade was also one of the outstanding eatures of the fair, as indeed it be, for when all the pupils of a doztn
or more schools parade in competition for a prize, the event inevitably aroues a great deal of interest. This interet, is intensified by the fact that mact to their school by some special feature of decoration or make-up. Nearly all carried banners giving the name of the school; some were deckectout with hoes and garden tools fon the boys and sunbonnet and basket of garden procticis for the girls; others were very pretily
arraved in garland of maple leaves,


A School Parade at a School Fair in Eastern Ontario.
Successful Rural School Fairs
A few years ago, when rural school fairs were first started, it was not expected that they would grow so rapidly in size and numbers. To-day they are being conducted in almost every county in Ontario and most counties have many more than one each year. Representatives of "The Farmer's Advocate", do not get the opportunity of visiting many rural school fairs, but those we amount of interest is an increasing them. Not long ago we had the opfair held at Kemptville in the county of Grenville. Quite a large number of schoois were represented and the atmated that there were probably 1.500 people present, while some others thought the number was nearer 2,000 . At any rate there was just as big a crowd as we have seen at many fall fairs where there
was horse racing as well was horse racing as well as other at-
tractions that the school fairs have been ractions that the school fairs have been
kept free from. Just here we might
while others were dressed as uniformly s possible and supplied with banners: After the parade the schools were lined up for the public speaking conteot Nume inging by the various schools. Numer ous patriotic songs were rendered gave
some schools had yells which they git with great enthusiasm.
The public speaking was particularly worthy of mention although only four pupils took part, three boys and a gindt was truly surprising to see how splentids y and forcefully these boys and ginls girls of our rural schools were given the opportunity of public speaking we would not have so many grown-up people who. are afraid of the sound of their voices. Boys and girls who enter puatic
speaking contests at school fairs should speaking contests at school fairs sho The boy who won at. Kemptville did sol historical interest, it was something the could enthuse over and he could go at it in a very businesslike manner. Not the least of the good features of cooking, was shown by the classes for and nature ne study, art, penmanship. especially the first two, some excellent exhibits were first

## ment.

1 fairs have grown so many places they have
rs that are run alto k who like to go to a fair ot help build it up by hibits. Indeed, jus by ity a fall fair had been Whays bexore where we e level of the Kemptville Ve did have the privilego 11 fair held near KemptIfterwards and althouigh ibits were not very much lose of the school fart f course, more kinds of e could not help noticing siasm that was shown by here in spite of unfavorId the fair was a good one, were interested in-secing 1 meeting socially. utstanding features about we know them is the comn schools. - A trophy was ighest number. of points on as the fair was over, eager to know what school silver cup. The school o one of the outstanding ill the pupils of a doust Is parade in competition event inevitably arouses f interest. This interest. by the fact that most give a note of distinction
by some special feature of make-up. Nearly all giving the name of the ere deckedout with hoes Is for the boys and sin-
isket of garden products sket of garden prodicts
others were very pretily arland of maple leaves,

n Ontario.
yere dressed as uniformly de theplied with banners plic speaking were lined various schools. Numer ongs were rendered and zusiasm. peaking was particularly ition although only four t , three boys and a guld lly these boys and girls d if more of the boyc and al schools were given the any" grown-up people who the sound of their own nd giris who enter pubbic
ts at school fairs should or difficult subjects. The at Kemptville did so
nose a subject of local st, it was something he pver and he c
nesslike manne of the good features of ework, art classes for ework, art, penmansuip.
fudy. In these clases.
irst made.

## Know the Tire You Buy

You can't tell the value of a tire by its looks. The unused tire is a riddle. Its sleek and unscarred surface tells no story. Its real value is hidden.
Nor can you tell the value of a tire by its price. The price may be too low. It may not allow of building a good tire. The price may be too high. It may be far above the value you will get.

But there is one reasonably safe indication of a tire's value available to everyone.
That is the service that tire is rendering in general use.
On this basis, we bełieve you will come to Goodyear Tires.
More Goodyear Tires are used than any other brand. They have received, and are receiving, the most severe test a tire can be given.
If you will talk to men who drive cars, you will find a strong majority for Goodyear Tires. A majority based on this very test of actual experience.
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Ask the Goodyear Service Station Dealer to tell you the experience of the men to whom he sells tires.

The Goodyear Tire \& Rubber Co. of Canada, Limited


## Provincial Highways

THE Councillor and ratepayer are vitally interested in understanding the relation, of the Provincial Highway to the general plan of Ontario's road organization.
${ }^{Y H E}$ Provincial Highway System was authorized by an Act of 1917, and provides that the Department of Public Highways may take over, maintain and construct leading roads throughout the Province

The Main Artery of the System
THE trunk line the main artery of such a system would be the highway from Windsor to the Quebec boundary, with branches from Prescott to Ottawa and from Hamilton to the Niagara River. This route alone, about 600 miles in length, has within twelve miles from it, half the population of the. Province, and over half the assessment. A road which will link up so much potential traffic cannot be ignored.

## The Basis of the Market Roads.

THIS road is not merely a route for through traffic. Section-by section it forms a series of most im portant market roads for local farm traffic. Residents on or adjacent to these roads are entitled to its proper maintenance for their market traffic. These roads must be so built as to carry all the heavy traffic which is flowing over them (or which will flow over them when improved to a reasonable standard), or else the farming community along them is unfairly penalized for residing on them. Local- residents either cannot maintain the road, or do so only at an unfair cost.

## Traffic Coverns Cost

CHE CHIEF UNIT OF, COST IN ROAD MAINTENANCE IS TRAFFIC, NOT MILES. Ex penditure is necessary in proportion to the number of vehicles using a road. Traffic alorig certain of the main routes which may properly be included in a Provincial system has reached proportions which would place an impossible burden on the local municipality and the only fair remedy is a Provincial system, largely supported by the revenue drawn from automobile owners.

BECAUSE they are assumed as Provincial High. ways, new roads are not created. The roads already exist, the bridges and culverts on them must be built. Through township and county organizations large (and in some cases excessively large) expenditures were being made on them.

## What Happened in Lincoln County

 BEFORE being assumed as a Provincial Highway, the Lincoln County Council was spending $\$ 1,000$ per mile annually on the Queenston Stone Roadand the road was deteriorating. Representatives of the to mainta of Pickering protested their entire inabiity of the excessive section of the Kingston Road, because removed from traffic. An unfair burden is merely assumed by the Province. The Provincial Highey System is a matter of justice to the municipalities through which these roads pass.$\mathrm{A}^{\mathrm{N}}$N immediate and huge Provincial expenditure on a continuous pavement of cement concrete, similar proposed, as many appear to believe. The traffic from point to point will vary. materials amount of character of subsoil, and variety of conditions affect the type of construction and cost conditions will tions it is anticipated that existing gravel roads may be
developed and maintained for some years, or until the growth of traffic renders rebuilding cheaper

> Better Maintenance Keystone of Policy.
> RETTER maintenance rather than heavy construc tion is proposed by the Provincial Highway De partment. Many miles of the proposed Provincia Highways have been oid gravel or macadam roads, the maintenance of which has been neglected. Many miles were inferior because they have not been pioperly draifed. A thorough system of maintenance and de velopment is first proposed so as to utilize the roadbed that now exists. Durable surface construction wil follow as the needs of traffic demand, and as main tenance costs make it cheaper to rebuild.

> T is unfair to assume that all or even a majority of those who travel by motor car on these roads, in this populous part of Ontario, are doing so for pleasure only.

## Motors a Necessity.

THE motor vehicle has become a recognized necessity of everyday life. It cannot be described as a luxury any more than the telephone, telegraph steam railway, and similar advantages of the age in which we live. It enters into the practical affairs of the farmer, merchant, doctor, business men, men of the skilled trades, manufacturers, and has given the common highway a greatly increased transportation value.
N appeal to prejudice rather than to reason is
made by those who condemn Provincial Hioh made by those who condemn Provincial Highseekers." No doubt some for millionaires and pleasureroads. They also travel on railway trains-but the commercial value of the steam railway is not diminished by the fact.

## Farmers Own One-third of All-Motor Cars in Ontario.

N 1918, one-third of the passenger motor cars in the Province were owned by farmers. Over 82 per cent of all passenger cars were small machines of 25 horse power or less-the cars of men of moderate means who have serious use for them. It cannot be doubted that, in addition to considerable motor truck traffic the travel between Hamilton and Toronto, between Brantford and Hamilton, London and Woodstock, is largely of a business nature.

Good Roads Assist Agricultural Production. DROVINCIAL Highways have been criticized be cause they will parallel the railways, and will compete with the Grand Trunk, which may soon become nationalized. The profitable traffic of the railways is the long-distance haul. Provincial Highway will compete only with the short haul, the "way-freight" traffic. Even this is affected to a limited extent only, or good roads mean greater agricultural productive development, and thus they create their own traffic.

## Farm Traffic Not Excluded.

T has been feared by some that certain farm traffic would be excluded from the Provincial Highways and that the Minister of Highways has arbitrary powers in that regard. It is manifestly absurd that any farm traffic could be excluded from public highways, as it is primarily for farm purposes the highroads are being aided and encouraged by the Department. The powers of the Minister are merely to "regulate" traffic, cannot conflict with the rights to the public under existing statutes, with the rights of as to meet conditions of emergency, and are only such as to meet conditions of emergency.


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CELIING buitter-fat at now-a-day's prices is like selling gold out of a mine of your farin.
Imagine the owner of rich gold quartz extracting the gold with a machine chosen for its bowl wobbled oears man chose an ordinary cream separator for its fow price. Pretty soon the bowl wobbled, gears rattled. The women complained about the high supply tank, the toilsome cleaning and the hard running. Inside of two or three years that man was convinced of the folly of "siaving" T money on a cheap separator.
2th 50. Save yourself this costly experience by investigating the
-4. Hi First step is to find out what your present separator is really doing for you. Just (0) प- Send a sample of your skimmed milk to any governiment dairy school for a Balpcock test. Weglacily welcome this "skim-
the-skim-milk" test.
When you get the result compare it with the Renfrew record; the Renfrew
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Take ybur pencil and figure the loss on your herd for a year. Won't it pay you to know
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And what does it cost you if you want to ficcease your herd considerably to replace ail grdinary separator-or to stand the losses of an
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    Wash the furnituld Furniture time, with water and castile soap, rubbint each bit dry with chamois before going do the next. If varnished woodwor mixture of linseed oil and turpentine, half

[^2]:    When writing please mention Advocata

[^3]:    Winter care consists largely in provid-
    Winter care consists largely in provid-
    ing a more or less open shed with a
    southern exposure, but free from drafts. The feeding of roots, grain and clover hay twice a day and with a supply of season, ewes should be separated from the flock, given luke-warm water, and care taken that lambs are properly nourished. Provision should be made
    to have an attendant at hand almost to have an attendant at hand almost
    constantly, as it will repay well by reducing the loss of lambs to a minimum
    In conclusion, then, it may be said that there still lies a great opportunity for the Ontario farmer. The farms of
    Ontario are well adapted for sheep raising, a comparatively of labor is entailed, and the market prospects for sheep products are en Wellingto

    The King Bird Matches His compass till there were hundreds and Stre King Bird Matches His Strength With the Crow. Back "Tue farmer's Advocate": Back of the old home stands a woodlot tall evergreens, firs and hemlock, and
    back of this . grove flows a river, and beyond the river are veritable ""forests primeval.". The crows used to be migrant irds with us, but for a score of years or nore they are with us all the year, and we may feel that they are permanent
    residents. A crow is painted just as black as his color, but he is not altogether bad.
    Crows are gregarious. It is not often
    you see a single crow you see a single crow. This s rove is the
    favorite sleeping quarters for these birds avorite sleeping quarters for these birds.
    They practice "early to bed and early to rise," for they used to begin to gather to these favorite haunts around 4 occlock, in the afternoon, and streams of aviators

    Neusands by the time it was sundown. Relays of 2 's, 3 ' s , a dozen, a score, etc. ime in at a time to swell the crowds
    iready there, and then what a hullabaloo hey made screaming their hoarse, monoyllabic caw, caw, caw till they fairly ut soon their voices ceased and each ird went to roost and slumbered with is head under his wing. At daybreak
    hey were awake and ready to be off. nd in just a little while the woods were In the of crows!
    In the spring they build their nests in
    hese pine woods. The beginning in hese pine woods. The beginning of April sees the sexes flocking instinctively
    o this trysting place. Their nests are placed high in the tall trees so as to be well nigh inaccessible.
    The crow is no craft
    The crow is no craftsman and his nest is a crude affair, very loosely put to-
    gether with sticks and twigs and lined

