## PUBLISHED EVERY WEEK, \$1,50 PER YEAR:


*AGRICULTURE, STOCK,DAIRY, POULTRY, HORTICULTURE,VETERINARY, HOME CIRCLE,*

# High Quality First, Last and All The Time 

$T$HE maintenance cost of a rural tele phone system depends on the quality of the equipment. The better the equipment the lower the cost for repairs and the better the service rendered the subscribers. The big point to remember first.
last and all the time in buying telephones is HIGH QUALITY.

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Cold weather does not affect the steady, smooth running
qualities of the Alpha. This is a great advan qualities of /the. Alpha. This is a great advantage, as most of
your wood sawing will be done during cold weather. your wood sawing will be done during cold weather. complicated parts. When you start your Alpha in the moining you can rely on it plugging away steadily all day. There is nothing to fuss or tinker with-not even batteries. The perfect
control of the sensitive Alpha governor instantly regulates the control of the sensitive Alpha governor instantly regulates the
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If You Hive an Impoverished Pasture Field, an Application of

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IN THE FALL OR EARLY WINTER
will bring it back to fertility and enable you to carry more stock than ever before. What's more, the quality of the animals raised will be vastly improved. Drop us a line, and no doubt we can give you the name of some good farmer in your neighborhood with whom you can speak on the telephone and get the benefit of his experience with our goods.

The use of Sydney Basic Slag will build up the fertility of your farm and enable you to make more money
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$\mathrm{F}^{\text {OR the use of our customers whose hauling }}$ cannot be stopped by the snows of winter, orto whom the snows are welcome, as furnishing a smooth hard road over which to move their products, we offee a iine of bob sleieibh so complete that each man may tind in Unless a siligigh willeas sand hased knocke , it is of littlo value in Canada. Therefore, we make these sleighs, above all olse,
strong. Even the lightest one-iorse sleighs are as strong as stecected piecess of high-grado wood and steel and the most carefu workmansin, can mabe them. No imper rect or unsound material fnds its way into the manufacture of these goods. its load overor ordinaryry roads and to to the the work intended for fory size. We make a liberal guaranteo arrangement to take care o the satisfaction of our customers. It is handled by 1 H C C iocal agent who will show you how biga tine itiso On il you oun not conveniently see the agenh drop ation.
bouse and we will send full information



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Burning common coal oil, the Aladdin produces a light that beats gas, electricity and acetylene - that makes oldstyle, round-wick lamps seem feeble as candles in comparison. In giving this better light, the Aladdin uses less than half as much oil.

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-HERE'S YOUR CHANCETo Make a Lot of Money
Every home needs good light. The Aladdin-with its wonderful gift to country homes of the brightest and mellowest of all lights - produced from ordinary coal oil at a big oil saving - needs only to be shown. When it's seen, it is taken for trial with open arms; ,when it's tried, its users never go back to the old feeble lights.

These Men Without Former Experience Make Big Money-So Can You

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LONDON, ONTARIO, NOVEMBER 9, 1916.

## EDITORIAL.

## Save the sows. <br> It is the business farmer that makes good. <br> Secrect diplomacy should end with the war. <br> Where are the farm implements and machinery

Make the best use of the fall in preparation for spring.
There are 175,000 farms in Ontario and nearly all are short of man power.

There is only one more-to-be-despised man than the slacker, the grafter.
Sale records prove that there is money in the right kind of pure-bred stock.

Canada can raise the 500,000 but it should be done by more system in recruiting.

Feed over all the cattle possible rather than dispose of stockers to be slaughtered.

The successful dairyman must know what each individual cow in his herd is doing.
No man is independent of his fellowman. No nation can exist without other nations.

We should be prepared for peace, but it is necessary first to be prepared to win the war.

Breed families are almost as important as the breed itself, but in buying do not forget individuality

The man who stayed with the live-stock game when prices were low and trade dull has been paid for sticking

It is far better to finish this war up right than to stop half way and have a more gigantic struggle a few years later.
"Gentlemen's agreements" are sometimes sponsible for the high prices demanded for certain necessary articles.

The slogan of the Progressive Party in the United States was "Pass Prosperity Around," and the Party did not last long.

The man who relies on mixed farming is safe, but operating too many special lines makes it difficult to bring any to perfection.

Politicians praise the farmer and agriculture generPoliticians praise the farmer and agriculture gener-
ally when running for office. After the election they ally when running it.
forget all about it.

The man who accuses another of disloyalty better first be quite sure that all he says and does himself is in the best interests of his country..

There have been many lessons for the farmer in this year's operations. An account of your experiences would be appreciated by Farmer's Advocate readers.

We are told thatgood grade ewes are worth upwards of $\$ 15$ each. Last week we saw some pure-bred yearling ewes sold for $\$ 27$ each. And yet the majority

## The Case Against Oleo.

The agitation over the High Cost of Living takes some peculiar twists and turns, and from time to time some would-be benefactor of the consumer cormes out with a policy regarding one or more articles o consumption, and the people, chafing under high prices, get behind him without first carefully weighing the question. During the past few weeks butter has been unusually high in price in Canada, and someone, doubt less interested directly or indirectly in the manufacture and sale of a substitute called oleo-margarine or butter ine saw a good opportunity to get a following by asking that this fat be allowed access to this cornry. The subject was immediately taken up by the daily press, and some city people pronounced herselves sto favor of a movement to secure free importation of ole and this of course word mean manualare product in Canada. There are rumors also that the authorities at Ottawa are contemplating the
question. The Tast Dairy Bill, which passed the House of Commons April 1, 1914/after a strenuous fight upon the part of oleo interests fa fight in which "The Farmer's Advocate" took a strong stand on the side of Canadian dairying-was very clear cut, and prohibited the manufacture and sale of butter substitutes in this country. It was a Bill upon which we complimented the Hon. Martin Burrell, Minister of Agriculture.
That was before the war and prices were normal under normal conditions. The war came that fall. Conditions became abnormal, but a good season for grass and other feed in 1915 kept the price of butter very close to the average in the winter of 1915-16. The high price of cheese had some effect upon it, but not enough to cause complaint on the part of the consumer. Then 1916 came and with it the worst season for the dairy farmer the greater portion of Canada ever experienced, little grass in summer and less feed for winter. Prices had to go up. Besides, 150,000 cases of butter were exported to Britain, whereas in the last few years very little if any had been sent out of the country. Abnormal conditions on the farm causing a short supply and the gradual all-round price increase because of the war could not but be reflected in the price of butter, and butter went up. Think a minute: What does anyone buy that has not advanced in price since the war began? What in general use is not dearer when scarce? Those interested in the manufacture and sale of oleo saw in this a good opportunity to start the credulous consumer agitating for a butter substitute, and some seem to have swallowed the bait. They claim that it would not injure the dairymen and would at the same time give the consumer somthing cheaper than butter to spread on his bread. This would appear to be rather a difficult accomplishment. Let us look into the question.

Oleo has given endless trouble to the countries which permit its manufacture and sale in a form which looks like butter. Its sale has been so often associated with fraud and deception that the revenue obtained by taxing it is very likely used up in putting through Acts to control the substitute, paying men to see that Acts are enforced, and regulating the sale in an attempt to put it on a straightorward basis. It is because of this deception and the excellent opportunity the stuff gives for crooked work that we object to-it. No one wants to pay for butter and eat a cleverly colored substitute. Few Canadians, we believe, would eat the substitute if it were not colored. There is where the joker turns the trick. Oleo manufacturers in the United States pay ten cents per pound like butter, and the consumer pays this ten cents when he buys oleo. Manufacturers claim that they have difficulty in selling it unless it is colored. If the manufacturer could make as big profits without coloring, he would not color
and so save the ten cents per pound, but he makes a higher profit by making it look like butter and the buyer of the grease pays that ten cents, and more, back to the manufacturer for a fraction of a cent's worth of coloring material. This is no guess, for two years ago first grade colored oleo was selling in Chicago for 32 cents. per pound at the same time that the same grade of uncolored oleo was selling in Pennsylvania, a state which prohibits the sale of colored oleo, for 18 cents pér pound. The manufacturer gained 4 cents per pound by making it look like butter. He encroached upon the butter trade mark "yellow", He would rather pay ten cents per pound for the right to color it than not color it. If oleo were let into this country the Canadian buyer would pay for the color unless our Government prohibited coloring. If oleo were manufactured here it would have to be colored to look like butter, otherwise it would not sell. Fat the color of lard would not be likely to prove a good seller as a top layer for bread and buns. We're afraid the head waiter and boarding -house mistress would have a difficult proposition panning off uncolored oleo as butter. If it comes in, our Government must do something to regulate the sale. The step most likely to be taken would be, as is the case in the United States make the manufacturer pay a big premium for the privilege to color it. Then the consumier would pay for the coloring matter a good many times over and the masses of people eating in hotels, boarding house, and restaurants would eat oleo and pay boarding rates for good Canadian dairy and creamery butter. Add ten cents a pound to a product which costs to Add ten cents a pound to a product whicha costs to
manufacture from 8 to 15 cents and you pay more mor the nice, attractive color than you do for food nutrients. When butter is eaten, the color, being natural, ents. When butter is eaten, the color, being natural,
costs little or nothing. Experts tell us that the best costs little or nothing. Experts tell us that the best
grades of oleo are white. There is no doubt about it, grades of oleo are white. There is no doubt about it,
the manufacturer adds the color simply to make his the manufacturer adds the color simply to make his product a better seller because it then hous ine butter.
In European countries there is no fraud or deception In European countries there is no iraud or deception, and no fight against oleo where coloring is forbiduen,
where it must be sold in packages differing in shape where it must be sold in packages differing in shape
from those in which butter is sold, where dealers who from those in which butter is sold, where dealers who
manufacture or sell it are prohibited from selling butter and where, also, restaurants, eating houises, stores, and where, also, restaurants, eating houses, stores,
etc., using or selling it must advertise that they do. etc., using or seling it must advertise that they do.
In Great Britain coloring is permitted and we are told In Great Britain coloring is permitted and we are toid
that fraudulent sales are frequent. In Denmark the people eat white oleo at a tow price and export their people eat white oleo at a lovr price and export then good butter to Britain at a high price, but Canadians are not Danes. In this country the Canadian eats the best. All the arguments are against oleo being colored. There is no trouble where all the foregoing
regulations are lived up to, but what Canadian mantu regulations are lived up to, but what Canadian mant-
facturer or shopman will allow a Government to say facturer or shopman will allow a Government to say that if he sells oleo he cannot sell butter, and so on ive million United States farmers have spent long years in fighting twenty-seven .
First grade oleo is mixed with a little butter; second grade is mixed with cream and third grade is churned in whole milk. There you have it. This is the stuff highly colored, which has given so much trouble to dairy interests across the border. If it were not for the coloring, as previously stated, few would buy it. Coloring deceives; a little butter, cream or whole milk mixed in gives it a butter flavor. The best grade which is the only grade a Canadian would want at all, would cost to manufacture, coloring rights added, around 25 cents per pound. It commonly sells at a considerable advance on this, price to the consumer or well up to the price of butter in normal times, Sold white it would be cheaper. and would not be stealing butter's trade mark
Now we come, to the questions: Can Canada afford to jeopardize the dairying industry in this

## The Farmer's Advocate AND HOME MAGAZINE.

the leading agricultural journal in the

## Published weekly by THE WILLIAM WELD COMPANY (Limited).

## JOHN WELD, Manager

## Agents for "The Farmer's Advocate and Home Journal,

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## THE will nit be responsible. our <br> LABEL shows to what time your











country forever by permitting this deceptive substitut to come in to tide us over six months until grass comes again for our cows? Can this country afford to incur oleo would producers and consumers? We answer "No" to three. Let us discuss them

Some doubt whether the importation of oleo would If it did there would be fewer cows kepter very much. produced because the producer is not get less butter a price for butter in comparison with the price too big dairy products, and considering the cost of production. He would either turn his milk into other channels or would sell his cows.
would mean smaller pro get rid of the cows this higher prices for some other necessaries, consequently can be depleted of live stock and maintain a high standard of production over a long period of years. The three
Western Provinces must just turning from exclusive wheat growing to mixed farming. Butter making and general dairying are The effect-of oleo coming in would undoubtedly check. the dairy industry in these Provinces. Farmers would hestiate before making radical changes from wheat to cows with a prospect of oleo going into the settler's mean fertility and bigger crops to the West. The fertile prairie is not inexhaustible. The good dairy on the farm, and she feeds the goes, the demand for beef will not be increased so Canad will lose just that much fertility, and loss of fertility
means higher-priced food for the Regulating the sale of the substituter.
more trouble in the United States than the regulation of sale of any other one product. All countries per-
mitting its manufacture or sale have had to legislate to control coloring. Tine and agaze had to legis hate as dairy butter to the deterinent of of tairying heen sold
loss of the consumer. loss or the consumer. . I leaves so many loopholes
for deception that to properly regulate its manufacture
salaries and expenses would eat up the revenue which might accrue through its limited use. The people labelled "indirect" "ax, but no less 1 . becase behind it would see to it that it alway the por There are arguments for it. It is cheaper now. It is said to be wholesome. But what consumer would take it in preference to good butter if he knew it? Who wants to pay ten cents or more for coloring in every
pound? Who would like to run the pound? Who would like to run the risk of higher prices for other necessaries if the dairy industry was hard hit? If it doesn't bring down the price of butter, what good is it? If it does, it awill eventually injure both producer and consumer. The manufacture and sale of butter, an honest business, is controlled so that the consumer is assured of a good product The manufacture of oleo cannot be controlled for six months' too many chances for the deceiver. For afford to wage a hundred years' war on oleo? Could ur Government make and prohibit coloring, sale in packages resembling butter sale in stores where butter is sold, use in hotels, etc? Som ec., where butter is sold, sale as butter this country under a war measure, could we ever to

These
These are some questions for those who would

## The Merry Miller. <br> by ретtre mсавтture.

It really too bad that the high cost of living is eve, for the public to regard the figures in literature. Poets have celebrated him in some of the finest songs in the language, and at
concerts and tea-meetings millers blushing happily while their praises were being sung. But during the past few years the attitude of the people has changed. If the miller attends a public
meeting he is likely deep,", and his popularity is certaises, not on the but
In starting to review the case of the on resist quoting Burns.

## "Hey the dusty miller, <br> And his dusty coat; He will win a shilling, Or he spend a groat.,

Wait an minute! Haven't we the whole cause of the dificulty right in that stanza. Burns saw the
same weakness in the miller, that we are Oof to- way He He was everrastringly a werer are complaining
and he didn't want and he didn't want to sipend more than ay sholiting
getting yit. While the miller was doing businessi in
 seems ut now that he is in Big Business his thrift

 Pike this:

$$
\begin{aligned}
& \text { Hey the dusty miller } \\
& \text { And his dusty coat; } \\
& \text { It would save us millions } \\
& \text { If we could get his goat }
\end{aligned}
$$

 but I hesitate to repeat the charge. 1 that chamine it
denied so often that out of politeness $I$ amm foracd it
 are the most unanimous business men 1 have they
observed. When the price of are perfectly unanimous about it, and woes down they
of flow sides, I cannot help notic unanimity is wonderful. Bealong in spite of the fierce competition they claim to
be facing. A short time ports of several milling companies the annual reports of several milling companies in the Montreal to them and congratulating them on their prosperity of money in their profit and loss account, and built right up to date, they corldn't hide their paofit enlirely and were forced to declare remarkable piofits
dends. I think one declared a dividend of sixt par cent. and another gave twenty per cent.; so they
do not need to woryy even if the pice of bread do not need to worry even if the p.ice of bread goes
up a few cents a loaf. They can afford to buy it.
Of course, it must distress some of then the publii say unkind things about of them, but I I suspe the
that most of them are like the miller desitibed that most of them are like the miller deseribed in
another song that I hear the young people sing-ng.
it is really strange how the poets manal

There was a merry mill
Who never cared a rap for love, but mickle can and O the rusty, dusty mille

T have noticed * *
with the millers they when city people try to reaso with the millers they are overwhelmed try to reason
and figures. By exhibiting the capital invith facts and figures. By exhibiting the capital involved, the
high cost of labor, cost of wheat, and such thin millers never fail to show the millers never foil to show that, and such they are bings
able to wiggle along and that they able to wiggle along and that they are really pharlan
thropists. But when the farmers beri thropists. But when the farmers begin to grumble
they advance an entirely new line of argument. There
are plenty of farmers who still when they used to take grists to the days and paid for the grinding by letting the the miller mill,
his toll. They tell me that they used to two pounds of flour from every bushel after farty And the bran they got was worth bran and stiong Nye's farmer remarked: "The brand while, As Bill the goodness jerked out of it by this new roller
cess." Nowadays, if the farmer takes mill he must sell his wheat and buy a grist to the with wheat at the present price he seldom, and even times the gets about less. This shows that the present was taken by the fld more flour as his toll than gets all the bran, shorts and middlind besides, ho must mind selling at over thirty doll. With offal And I suppuite a bit to the modern milling industry trot out their talk here is where the millers vill abor and all that. Well, wherhead charges, cost of milling came in it was so economical new style of
the old millers out of business that the new process is cheaper, even though the is take an extra seven pounds and all the offal. The millers certainly seem to have a strangle hold on us,
and I feel like singing to them:

My mother's making griddfe cakes and waits for
And I have no doubt that if I sang that at him slight change of the song: in and answer with a
must pay another penny, said the miller to the
maid.
I hear that the Hon. Mr. Crothers intends investigating a few combines in an effort to solve the problem
of the high cost of living. It is is going to start with the canners, but I think that he mistake. Canned goods are not an absolute necessity Mr. Cron do without them if forced to do so. Besides Mr. Crothers will encounter difficulties, for, if I am of parliament who are engaged in the cannimber of parliament who are engaged in the canning in.
dustry. If the Minister wishes to make an investi
gation that gation that will be really wopular he should investi-
millers "The once over." Bread is an absolute millers "The once over." Bread is an absolute
necessity, though it is becoming a luxury to the poor for we want to know. Crothers will take this hilnt industry. Personally, I do not want to see the milling pushed from his pleasant place in literature and song is time that we knew it, so that is being maligned it singing the dear old songs even if they are hungry
But if the millers But if the millers are really enriching themselves by
taking the bread from the taking the bread from the mouths of the poor it is
high time that they tasted the fullest measure of high time that they tasted the fullest measure of
public contempt. I hope that Mr. Crothers will
look into the matter and in little chorus while he is doing it:

Hey the dusty miller And his dusty goat Get him Mr. Crother<br>ret him Mr. Crothers And you'll get our vote

## Nature's Diary.

In the late fall the Screech Owl is more frequently summer it keeps pretty much to the woods, but in the fall and winter it comes about the waods, but in This little owl is the smallest of our commons. owls in the East, being only ten inches in length. It bears,
on the top of its head, two tufts of feathers which are usually referred to as "ears" or "honns". There are two distinct types of coloration in the plumage of this Inccies, known as the gray phase and the red phase.
In the former the general aspect is gray, the upper
parts being parts being speckled with black and the under parts
being whitish, splashed and streaked with black the latter phase the general plumage is reddish-brown, parts being white. tinged with reddish-brown and streaked with black. Some time ago it was believed
that the , Sed hirds. that the red birds were males and the gray females;
but it is now known that this difference in but it is now known that this difference in coloration is due to neither sex nor age nor season. Neither
is it due to geogiaphical causes in the sense that only
the gray or the red is it due to geographical causes in the sense that only
the gray or the red phase is found in a certain locality.
It is true that a certain phase predominates in a given

NOVEMBER 9 locality, and as gray phase which fare, usually oc rare, then disappe Though this is a rather sweet, with a ventrila
matter of some di tion from whence justifies its name
at hand, a decide well acquainted I ever heard one that its name wa
that a place is call that a place is cal
is no mountain w ittle less green th
lisk Vie named " four feet of my
fully made up for fully made
not heard. protection and sh instead of being eater among our
being grasshoppe In the invest.gatic
the United States the United States
insects destroyed $v$ as fifty grasshop!
eighteen June bee worms in a thir
particularly wor particularly wort
the pests of the aggravat.ing pest
destroys a whole things for the futu1
been the object o been the object o
was a sediling and
of the little ring of of it. Meadow m Mice are the mam
Screech Owl, and Screech Owl, and
not often destruct not often destruc
immense amount barn. An occasio
Mole is also taken captures most of
the breathing hole as come to the su
airds, but its bir birds, but its bir
of House Sparrow and
farmer. which it lines wit
from four to six this species in allied races. many birds are opportunity interesting A case made frequent though it might soon found that nd carrying off ery largely compo
ew nest some hui TH

## Favors Editor "The Far leaves an opening f but when you wan but when you wan dip down for cash it demands the hi get away from. company desires Of course, they are ceurse, they so the compars A 1,350-lb. horse horse will do horse will do mo most breeders is advice is breed kind of big horse big-looking horse flat and clean-bo with a cood brea a horse as possil is where is where the hea breeders to breed horse, then back What breed and we may breed to

locality, and as far as my experience has gone it is the gray phase which is most abundant in most localities. J. H. Fieming says that at Toronto the red phase is rare, usualy occurring
and then disappearing.
Though this little bird is called the Screech Owl it, as a matter fact, very seldom screeches. Its usual note is a rather sweet, plaintive, tremulo whistle, a whistle matter of some difficulty to determine the exact direction from whence by screeching in a loud, and if near justifies its name by screeching in a loud, I I had been at hand, a decidedy ear-spers with this species for ten years before I ever heard one screech, and had just about decided
the that its name was given to it on the , same principle
that a place is called "Green Mountain", because there that a place is called Green Mountain because there is no mountan than usual at this point, or a house is
little less green
named "Park View" because no park is visible from named "Park View" because no park is visible from
it. Then one evening a Screech Owl alighted within it. Then one evening a Screech ow head and emitted a screech which
fout feet of my hal four feet of
fully made
not heard.
not The Screech $\mathrm{Owl}^{2}$ is a species worthy of the farmer's protection being shot at every opportunity, as is instead of being shot at every opportunity, as is
unfortunately often the case. It is the greatest insecteater among our owls the insects most often take eater arashoppers, crickets, beetles, and cutworms.
being gre invest:gations into the food of this species by
In the in In the invest gations Biological Survey the number of the United States Biological Survey the number of
insects destroyed was shown by the fact that as many insects destroyed grasshoppers were found in one stomach
as fify eighteen June beetles in another, and thirteen cut
worms in a third. The destruction of cut worms is worms in a third. The destruction of cut worms is
particularly worthy of appreciation, as among all particularly worthy of appreciation, as among all
the pests of the farm and garden there is no more aggravating pest than this greasy, gray larva which destroys a whole young plant, full of promise of good
things for the future, a young plant which has probably things for the future, a young plant which has probably
been the object of much care and solicitude since it was a seedling and has just been set out, for the sake of the little ring of tissue which it secures in the felling of it. Meadow mice, White-footed Mice, and House Mice are the mammals most frequently eaten by the
Screech Owl, and while the White-footed Mice are Screech er iotructive to crops, the other two do an immense amount of damage to crops in the field and barn. An occasional Chipmunk, Flying Squirrel or Mole is also taken. This species is fond of fish, and captures most of them in winter by watching beside
the breathing holes in the ice and seizing such fish as come to the suriace. The Screech Owl takes some birds, but its bird diet consists almost exclusively of House Sparrows, and in killing these destructive
and dirty pests it is rendering a real service to the farmer.
The nest of the Screech Owl is a hole in a tree which it lines with feathers, and in which it deposit
from four to six round, white eggs. The range o from four to six round, white eggs. The range o
this species in Canada is from the Altantic Ocean to Manitoba, and it is replaced in the West by closely allied races. many birds are the the thests of many birds are brough unsuspected, and we have a goo opportunity to study bird architecture. A rather interesting case came under my observation this
summer. A Warbling Vireo, which had nested within a yard of one of my windows the year previously though it might be repairing the nest-a decidedly unusual occurrence among most of our birds-but soon found that it was tearing the old nest to piece and carrying on the stargely very largely composed, to use in the
new nest some hundred yards away

## THE HORSE.

Favors the Heavy Horse
Editor "The Farmer’s Advocate
Some land being more easily worked than others leaves an opening for discussion on the light and heavy horse. The light horse may be all right in some places,
but when you want to buy a heavy team you must dip down for cash; also, when you have one for sale it demands the high price. These are facts we can't get away from. Right in this settlement, a larg company desires to buy horses for lumbering purposes.
Of course, they want the heavy horse. Now there Of ceurse, they want the heavy horse. Now there
are plenty of horses for sale, good chunks but too light so the company must go elsewhere for their horses A $1,350-\mathrm{lb}$. horse will do a lot of work but a $1,700-\mathrm{lb}$ horse will do more and last longer. The trouble with mont breeders is they do not consider quality. My
advice is breed the big horse, but breed the right kind of big horse and not the long-legged, long-backed, big-looking horse, but the big, thick, short-coupled flat and clean-boned horse, thick through the heart with a good bread basket. A horse that hasn't room
for feed, hasn't the staying power. I breed for as large a horse as possible without crossing breeds. Crossing is where the heavy horse falls down. I have known breeders to breed a Clydesdale mare to a Percheron
horse, then back to a Clydesdale, then to a light horse.
What breed and have ten years hence? If they are not scrubs then we may breed to the cheapest horse we find. I am not
going to say a word against the 1,300 or 1,400 -lb.
horse, as I have worked some $1,300-\mathrm{lb}$. horses Draft at seven, the Belgian at 10 , and the Pércheron 1,700 lbs., but one was a little, big horse and weighing at 11 . The main weak points in the Percheron are the was a big coarse-bred brute that had no type or make nificant deficiency in quality as evidenced by bog up. Get the big horse with good blood in his veins spavins and thoroughpins combined. and you have something that is always wanted and
will bring the price. I have handled horses for 35 years in different parts of Ontario and I have always found the heavy horse in best demand. Rainy River District, Ont.

## Unsoundness in Various Horse Breeds.

The reports of 10 States in the United State publishing accounts of the unsoundness of their stallion in this respect. In this list no unzoundness is reported in 31 Suffolks, so they are therefore omitted.
Percentage of Each Unsoundness on Basis of
Total Specified Unsound

| Breed. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sidebone. | 33.1 | 45.1 | 30.4 | 27.6 | 40.0 |
| Bone Spavin | 9.7 | 6.1 | 10.9 | 6.7 | 0.0 |
| Ringbone. | 2.7 | 4.9 | 6.5 | 0.0 | 0.0 |
| Curb. | 1.3 | 1.2 | 0.0 | 0.0 | 0.0 |
| Thick wind. | 18.7 | 18.3 | 13.0 | 27.6 | 10.0 |
| Heaves.. | 0.0 | 1.2 | 0.0 | 3.5 | 20.0 |
| Blindness. | 9.0 | 8.6 | 19.6 | 13.8 | 10.0 |
| Bog spavin. | 8.4 | 4.9 | 10.9 | 6.9 | 0.0 |
| Thoroughpin | 0.3 | 1.2 | 0.0 | 0.0 | 0.0 |
| Springhalt. | 2.0 | 0.0 | $2.2-$ | 3.5 | 0.0 |
| Chorea | 2.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| Navicular disease | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other specified unsoundness. | 12.5 | 7.3 | 6.5 | 10.4 | 0.0 |
| Actual number of specified un- soundnesses. | 299 | 82 | 46 | 29 | 102 |
| Number of each breed | 1,193 | 2,789 | 1,540 | 1,263 | 782 |
| $\begin{array}{cc} \text { Per cent. } & \text { of } \\ \text { breed } & \text { with } \\ \text { specified } & \text { un- } \\ \text { soundnesses..... } \end{array}$ | 2.67 | 2.93 | 2.92 | 2.29 | 1.27 |

In examining the preceding table one must not on a particular unsoundness as absolutely indicative of which breed is the, most liable to that unsound ness, nevertheless, it is some indication of comparative The Clydesdale and the Suffolk have been subjected by their breeders to selection towards a common ideal. Apparently this kind of breed building is most effective for the production of animals to with of draft power in these two breeds than in all others, According to the table the Clydesdale exhibits weakness at four points, the Shire at seven, the French

The Belgian evinces trouble of the same nature the Shire shows less tendency to puffy joints, while the Clydesdale has a clean bill of health in strength of hocks and quality.
E. M. Wentworth, in the Breeder's Gazette, per-
taining to the board report of the 10 different States, says: "If one point stands out clearly here, it is that the fussiness of the Clydesdale breeder in regard to
feet, legs and action has its reward. While of the specified unsoundness in the Clydesdale, sidebone is the most common, yet it is really even less frequent in this breed than in any other major breed, only one animal out of every 195 showing it, while its
nearest rival, the Shire, shows one out of every 158 This is merely another means of emphasizing the thoroughness with which a general breeder's ideal can improve a breed.
"Perhaps the most significant fact of all is that the If a draft breed in all of the draft breeds is the foot from one out, of 2.5 to one out of 4 that the foot will go first, and sidebones be produced. The next most vulnerable point is the wind, when all breeds are considered, but the chances range from one out o weakest, the probability being from one out of five to one out of 12 .
"It seems difficult to understand why the heavy horse, whose foot never receives more than twothirds the jar which the racer's foot gets, fails so
signally at this point. That it is not related to breed signally at this point. That it is not related to breed
pzuliarity in shape is evidenced by its frequency seem to be related to it. One can appreciate the difficulties in the wind, the thick rind of the coninental breeds, and the Shire doubtless being related
to overfatness, while the heaves of the Clydesdale greater activity which might produce pressure on the lung nerves with the resultant paralysis. The blind ness apparently is more or less sporadic. No blind ess due to recurrent ophthalmia (moon-blindness) is melluded, hence one may consider the blindnes
o be the result of hereditary causes more or les independent of the other conditions of the breed or
"It is easy enough for any one who is a breed
artisan to find food for his partisanship in the figures partisan to find food for his partisanship in the figures that have appeared in this article, but two things stand
out pre-eminently, even to the impartial observer, immense popularity of the Percheron in the leading horse producing state of America and the remarkable efficiency of the Scotch method of horse breeding
which has produced the Clydesdale, a breed so free which has produced the Clydesdale, a breed so free
of unsoundness and so durable in quality. Furthermore, every evidence should demand further inquiry into the Suffolks.
This breed comparison in unsoundness does no indicate as to which may or may not be the best draft horse, but in it is more or less comparison in the efficiency of underpinning of the relative breed in which the clydesdale shows supsriority, conforming been made concerning conformation of tops, perhaps
quite a reversal of merits would have been observed.


A Well-reared Foal and Its Dam.

disease spreading in a building where there are many
pigs. It is not a suitable place for very young pigs, and it is hard to keep it dry and well ventilated unless is not our intention to criticise the large piggery at this time, but we believe that if anyone desires to extend his business and provide more accommoda-
tion for pigs it would be a good plan to consider the tion for pigs it would be a good plan to consider the
colony house, especially for breeding stock. The colony house, especialy for breedilng stock. Thes in common use. One is the A-shaped house, built on $2 \times 6$-inch runners. Its floor space is 8 feet by
8 feet, and the length of the roof is the same. The rectangular building is 8 feet by 10 feet on the ground
3 feet 6 inches high at the back, and 7 feet high in feet 6 inches high at the back, and 7 feet high in
front; the framework is 2 by 4 -inch studding, and it is walled with drop siding and covered with commercial roofing. It is built on 4 -inch by 4 -inch runners.
A man can construct a house of this kind in about a d man can construct a house of this kind in about a
day and a half at a cost of $\$ 20.00$. Exercise is one feature to be considered in the management of breeding pigs during winter. If these colony houses be
placed some distance from the feeding quarters or placed some distance from the feeding quarters or
troughs, the hogs will be obliged to travel considerable sows will sows will occupy one of these buildings during the
winter, and they can be provided with the run of the barnyard or some other suitable place. The
dry, well-wentilated piggery is all right, but the dry, well-ventilated piggery is all right, but the
colony house is a cheap method of enlarging the
honsing capacity. housing capacity.

## Relative Prices for Different Cuts

 in a Carcass of BeefCould you publish in your columns a . diagram
fo a side of beef, showing the different cuts with the name of the cuts, the approximate weight of each and the price per pound, to average 14 ents all
around, or a total of 849.00 for the half-carcass of a
beef ressing beef dressing . 00 Ibs? A farmer can often sell a
side of beef in small lots, but the difficulty is to est mate the value of each cut.
Nipissing Dist.

Butchers have a few genè which they adhere when cutting up a a side of of beef,
but each has his own peculiar methods when it comes to details. The cuts shown in the following diagram are large, but they show the general divisions or
"straight cuts" as known to the trade and from the "straight cuts" as known to the trade, and from these are taken. Some portions of of the carcass furnish
higher quality meat than others, are in greatest demand. However, all parts must be disposed of, which necessitates lowering the price of certain cuts so that people will buy. To do this the
retail price of the best cuts has to be fairly high retail price of the best cuts has to be fairly high.
The retail butcher who does his own slaughtering pays a uniform price for all parts of the carcass,
and must then work out a scale of prices co dispose of the whole at a profit. The loin brings the highest price, with the round and rib roast coming
next. The most expensive cuts are taken from the hind quarters. There is little meat on the shank naturally it retails at a lower price than other parts,
It is not diff cult to figure out what a quarter of beef
it It is not diff cult to figure out what a quarter of beef
is worth. per pound, but complications arise when endeavoring to arrive at an equitable price for the different cuts of the quarter
It takes a heavy, well-finished animal to dress
ino what the average butcher handles. In fact, the live weight would be about 1,200 pounds, or slightly over, dress out a much higher percentage of marketable meat than others. Consequently, care must be exer
cised in buying live weight cised in buying live weight. An exceptionally good
bullock may dress from 64 to 65 per cent. marketable meat, but the ordinary run would probably be from
58 to 61 per cent. A small animal will dress out as 58 to 61 per cent. A small animall will dress out as
high a percentage as a large one, and the percentage weight in the different cuts will be approximately
the same, provided the two animals are finished. Therefore, the weight of the various cuts as designated in the diagram can be figured out. The following
are known to the trade as the "straight cuts," and are represented in trade as the "straight cuts," and
takes diagram by figures. Round, 8 ; flank, 9 ; plate, 10 and 11 ; shank, 1 and 12 ; suet 13 , Whether the carcass is large or small, so long as it is nished, the percentage of "straight cuts" to carcass weight will be approximately, loin 17 , rib 9 , round 23 ,
chuck 26 , plate 13 , flank 4 shank 4 and suet 4 , Figuring on this basis one side of a carcass weighing ribs, 81 pounds will give 59 pounds of of loin, 32 pounds of
round, 91 pounds of chuck, 45 libs, 81 pounds of round, 91 pounds of chuck, 45
pounds of plate, and 14 pounds each of flank, shank
and suet pounds of plate, and 14 pounds each of flank, shank
and suet. The weight of cuts in a five or six-hundredpound carcass would bear about the same relation-
ship to each other ship to each other. It can be fifured on the per-
centage basis as previously given. For the retail centage basis as previously given. For the retail
trade the "straight cuts" are divided and are desigtrade the "straight cuts" are divided and are desig-
nated more explicitly in the diagram as follows:
Number 4 Number 2 , round: 3 , rump 5 and 6 , , flat-bone loin; 4 and 5 , loin end: 6 , pin-bone loin; 10, navel; 11 ,
brisket. The mark between Nos. 6 and 7 is where the ctivision is mark between Notw. 6 and 7 is where
quarters. According to the the front and hind is left on a hind quarter, but some butchers leave two ribs attached to it. The diagram on the left side of the illustration shows the front of a half-carcass, and
the various bones are pointed out by $A$ is known as the aitch-bone; by means of letters.

C, the crotch; D , the cod; E , the chine-bone; F repre-
sents what is termed "the buttons." G , the skir H, the breast-bone. By use of the diagram and explanations one should have little difficulty in cutting
up a carcass of beef in a similar manner as it is cut up a carcass of
by the butcher.
A problem arises when it equitable price to each of the different cuts. The ruling price at the present time is high, but it varies according to the market demands. In order to sell
all parts of the carcass at an average of 14 cents per pound, the various cuts, according to the present retail market, would bring about the following prices: 1 oin, 191/2 cents per pound; rib, 17 cents; round 17 cents; chuck, 12 cents; plate, 11 cents; flank, 10 not figure out exactly 14 sunts 10 cents. This does whole it is within a dollar of it on the half carcass.


Difforent Cuts in á Side of Beef.
From Bull. 147, University of
 during the winter and dispose of the carcass by the ration consists of straw, silage As a general thing, the to handle a quarter of an animal dressing around 600 , or hay, straw and clover chaff. Grain is not commonly pounds but many would gladly purchase a portion of a quarter. The quarters may be divided according to the accompanying diagram, but the price per pound
given in this article for each cut is based on the whole carcass averaging 14 cents per pound. If the price is increased or decreased the value per pound of the
various cuts would necessarily have to be changed.

Finished Steers by the Trainload from one Ontario Shipping Point. At this season of the year one can see carload after leaving Ailsa Craig, a small town in Middlesex County, Ontario, for Toronto, Buffalo, and New York. Thes steers were wintered roughly during the season o on some of the unexcelled grass land for which the Townships of East and West Williams and Adelaide are noted. Locally, Ailsa. Craig is known to be the second largest shipping point in Canada, being second of head of range cattle. Every year approximately 400 carloads are moved from this small Ontario town. Those destined for Buffalo and New York are billed out at. 25,000 pounds per car, and for Toronto at 30,000 pounds. In the average load there are about twenty steer, each car should carry in the vicinity of 26,000 pounds. At this rate the 400 carloads. which leave annually convey to market 5,200 tons of finished bullocks Anyone, by figuring at 'market prices, can see at once hat, in a season such as this, upwards of one million
dollars will come back to the producers and feeders of these cattle. Whether Ailsa Craig is the second largest shipping point in Canada or far from it, the named are doing their bit to a truly wonderful extent
in feeding the consuming population without any de-
pletion of fertility. During the week ending pletion of fertility During the week ending
October 28, 1916; 34 carloads were billed out and 45 cars were ordered for last week. Last year in one day 34 carloads left this station making two trainooas
of fattened cattle beasts. About 4,000 finished cattle will be lifted at Ailsa Craig during the latter part of October and the early part of November. It should Townshiptood also that the output from. Adelaide
whingely Ailsa Crom Kerwood and Strathroy while Ailsa Craig serves, as a shipping point, the greater part of East and West Williams and a small part of
McGillivay Township. Thus it will be seen that the number of cattle referred to represents only a of the many herdste that atered to represents only a part
districts menmer long feed in those districts mentioned, and which are exceptionally
well endowed well endowed with unsurpassed. grazing land. All there. Some are picked up in other sections of
the county and adjoining counties to be grassed in
this district where this district where many
hundred-acre farms are hundred-acre farms are
maintained for that purpose alone.
The System in Vogue: There is a system
peculiar to that locality which makes the grazing
method proftable and which makes profteabe grazing
metho
practicable Some dealers practicable. Some dealers
and cattle feeders as well, have several grass farms others, so they have feed during the summer for 100 to 500 head of cattle
From 20 to 25 head t From 20 to 25 head to
100 acres is the general rule They do not aver the grass begins
short in July or Au be short in July or August
some of the cattle are some or moved to other
fields. It is considered
In false economy to over stock a grass farm and
reduce the gains of steers. It is at once apparent that all these cattle will not be wintered by the man who grasses them
Here is with 100 or 150 acres, following $m$ i xed farming methods, assists. The
extensive grass-land ownextensive grass-land own-
ers or renters buy
feeding steers in the fall feding steers in the fall
and board them out for the winter. Different
farmers will take all the farmers will take all the
way from 2 to 20 or 25 steers and board them from five to six months. the farmer is paid so much per pound for the gain laid on. The steers as a rule hold their own through the winter, but sometimes they lose in weight when the rations are not sufficient in quantity or nourishment. when he secures this feeding accomodation where silage is a part of the diet. It keeps the stock loose and thrifty and in excellent condition to do well on the grash when turned out. Some of those interested as 200 head, sometimes more, with the farmers. They buy and place their steers in the fall as they obtain
the feed, and lift them again in the spring when the grass is ready, which is usually about May 10 .
Many farmers have ample stores for their stock throughout the winter, but are short of grass. They areas, so by the spring to those having large majority of the finished cattle in the district are in the hands of a comparative few. their buyers to the spot, direct, to secure these steers which are considered among the best grass-fed bullocks that reach the market. They are sold over the scales at the local shipping point at so much per.cw., with
three per cent. shrinkage discount. New York his been taking $a$ large percentage of these terk thi fall, but a goodly number are going to a packing house ${ }^{n} \mathrm{R}$
R. J. Robinson, who has a large acreage of grass
and also winters nearly 100 head in his own stables His methods of feeding may be of interest-this seaso to those who intend to grass their cattle next year rather than finish them in the feed lot. His system is to feed the cattle largely on straw and silage until
about February 1 , when they begin to receive about February 1 , when they begin to receive grain
and some hay. Up to that time they are given what straw they desire and what silage they can consume without physicing. From the first of February gn,
nntil about 3 pounds of cottonseed meal and a couple
of quarts of bran make up the grain ration. two feeds have been used quite freely in the past, but Mr. Robinson has not yet made up his mind, as to
what feeds he will use this . winter what feeds he will use this winter, considering the the
unsettled condition of the market and the exceedingly high prices prevailing. Towards spring this feed and barley chop. Last spring chopped wheat and oats were fed. These cattle are superior of course to those wintered more roughly by the farmers, and they are usually the first to be sold off grass. Last year the cents per pound.

## Good Grass the Reason.

Good cattle are bred and reared in the territory reered to and in the adjoining districts but we feel
safe in saying that the fundamental reason for this

## The Feeding Problem in the Maritime Provinces.

## lends. There are 100 -acre farms that never had plow in them and yet are producing pasture grasses in great abundance. Other farms have not been broken up for 40 years, but they still maine nat bein from 22 to 25 full grown steers which gain from 200 to 300 pound durrinn steers which gain from 200 to 300 and quality of the bullock, That dibtrict enjoyed requit that men who have been in the business for many years claim that they never saw the fall feed better than it has been this season. During the last six weeks the writer has had an opportunity to observe conditions as far east as the Atlantic seaboard, and after seing as are east as the Atlantic seaboard, and after seeing the results of the lack of moisture in other parts, the abundance of fall feed in the area mentioned presented a very pleasing appearance. Of mourse they are not always so favored with seasonable showers, but it is natural grazing land upon which cattle are sure to

During the latter part of September the writer
isited the Nova Scotia Agricultural College, at Truro, Visited the Nova Scotia. Agricultural College, at Truro,
and learned from the Princt pal, Professor M. Cumming,
a little of what was being done to foster the livestock a little of what was being done to foster the livestock
industry of the Maritime Provinces and more cularly of Nova Scotia. Space will not permit of a detailed description of the animals maintained on the ctrong-constitutioned Holsteins impressed us, tyosey, the cattle department, but the Ayrshires, at the head of which herd is a son of Jean Armour, were a , yood
lot. The immense Yorkshire stock boar and his get lot. The immense Yorkshire stock boar and his get
were outstanding in size, type and quality and should were outstanding in size, type and quality and should
constitute a good example to the farmers of that
Province as Pconstince a s wodl as a spource of breeding stock to to
improve. their herds of swine However it is the improve. their herds of swine. However, it is the important auestion of feed to - develop and maintain
live stock thatit infuences to a very large extent the live stock that infliunces to a very large extent the
numbers and quality of the herds or flocks as well as their production. This matter is reciving considerable attention in the East and it was the factor which
Professor Cumming dwelt upon largely when disProfessor Cumming dwelt upon largely when dis-
cussing the condition of the industry in the Maritime
Provinces. Relative to this he Provinces. Relative to this he said: "We have been
giving too much thought to the winter feeding of cows and young stock and not enough to summer
feeding. It used to be our policy on this farm to put our milking cowts on our home pasture and to summer was not enough good pasture for either. Now. we own we purchgsed for $\$ 1,400$, and which we use as per nanent pasture for our dry cows and young stuff. basic slag to the fields of this farm every year and so keep it in good heart. The young cattle when put into winter quarters will do better on hay and roots,
or silage, than will young stock from or silage, than will young stock from a poor pasture
on a good grain ration. It was the importance of grass that impressed me most in my several visits to the Old Country breeders, but we are only beginning to get down to business in this matter ourselves. Personally, I regard the pasture problem as the crucial
question in the live stock development of the Province. We have better facilities for pasture than they enjoy is being done to develop this natural advantage was visited. Even though the autumn had beemark was visited. Even though the autumn had been very
dry, feed was good and the cattle were exceedingly thrifty, Young stuft of the beeft breeds were fat and the dairy-bred heifers. were thrifty and well covered
with natural fleshing. Besides the excellent results with natural fleshing. Besides the excellent results than accrue from good pastures, the economy of this
plan is an attractive feature. At six per cent. the interest on the value of the proprety would amount to
$\$ \$ 4.00$. Add to this the to Ss4.00. Add to this the taxes, the annual expense of
some fencing, and about three or four tons of slag or some fencing, and about three or four tons of slag or
other fertilizer, and the cost of summering from 22 to
25 head of catte is 25 head of cattle is moderate indeed. Furthermore, one gets better results when. the pastare is frmed and
cared for properly than from a permanent pasture that receives no attention except some fencing in the spring.

## Farm the Pasture.

Good results accrue from farming the pasture in Cumming's advice is to sow grain and seed down, but do not cut hay. In this way the land is kept in good seeding of clover and timothy and perhaps a little white clover gives best results, but some red top grass is often used when the land is a bit wet. "We find," he sair, when we seed this way, and by using some
manure or slag do not allow the soil to run out, that manure or slag do not allow the soil to run out, that
bluegrase and other fine pasture grasses
gradually become establisher o not get results from expensive mixtures. In fact I am convinced that, within reasonable limits, the pasture problem is more one of the condition of the
ground than of the seeds put into it. This is ground than of the seeds put into it. This is my

White Turnips for Fall Feed.
One method of conserving feed on the College
farm is to sow white, or soft turnips for use in the fall,
serve the pasture is often short and it is wise to consown on towards the end of June. Early in Sep tember they ards ready for use and they arefed well on urnips in thith of November. The writer saw these the pasture in the evening when the cattle came from ily. In a year such as the present has been, with good they are able on the farm at Truro poor pasture rough fodder, into which many farmers have bee obinged to make heavy inroads. Last year these will not do so as high as 40 tons per acre, but they the nights get colder and . Through October whe the cattle begin to look for other feed. Then the white turnips are pulled and fed, tops and all. They
take the place of hay and grain and furnish a suc-
culent feed when it is needed.
O. P. V. Silage.

Much credit is due to J. M. Trueman, Professor duction of a crop that will make satisfactory introduction of a crop that will make satisfactory silage
for the Maritime Provinces, and at the same time require less labor than corn in its production. This crop is a combination of oats, peas and vetches, and
is known as the O.P.V. mixture. Taking the average


First trientoronto Champion Shropshire.
First prize aged Shropshire ram and champion at Toronto,1916,
for a number of years, it has produced more dry matter This year, however, owing to climatic conditor cost will fall slightly below corn in dry matter per acre b it less work has been involved. The proportions of the $21 / 2$ bushels of banner oats, $3 / 4$ bushel at Truro are: peas, and the oats are just beginninnual vetch per acre. When an ordinary mower. It is forked at once is cut with wagons and run through the silage cutter into the silo acres of land. Last year three were produced on 5.7 but owing to some parts of the field being 29 tons, greater part of it grew on 2 acres. The average the duction per acre is around 10 tons and it has been proven that cattle will eat the silage made from it
with considerable relish. While this mixture d
lizer as turnips, corn, or potatoes, yet it requires fertithan is ordinarily given the grain crop. No farmer first-class condition and it is the first puts his land in in the spring. This year at Truro it was seeded abod May 1 and cut on August 10. The O. P. V. mixture is gaining ground in the Maritime Provinces where
the corn often fails to yield the corn often fails to yield as well as in some other
districts. The latter crop, hower, is more extensively than in former years and sing grown more extensively than in former years and silos are
becoming common. Longfellow, at this Institution,
while auperior in quality, are almost up to, fif not fints,
the dents in yield per acre.

## Propare for Next Season.

Ouming to the dry autumn in the East, Professor considerable acreage of hoed crop and green feed in for a the hay should be short next season. Good yields of previous to thesed crops saw a more liberal both fants previous to these crops saw a more liberal
tion. If the lack of moisture this season shou have plenty of roots, corn, or the O. P. W. . mixixture to to
take its place. take its place.
We have
impressed us mentioned here only a few features to cultural College. One our visit to the Nova Scotia Ag in Eastern Canada would imitate Old Country stockme In the rearing of sappy, lusty, young stock, they breeder mprove their pasture and produce more succul grain and silage to develop their send upot their flesh, when, if the pastures were kept up, the
part of this could be accomplished on part of this could be accomplished on grass at a greate
reduction in cost. Professor Cumming's metha recommendations regarding permangent methods an the Maritime Provinces, where the facilities are
good, are deserving of special consideration.

## THE FARM.

## Sandy on High Prices.

## Editor "Ter Farmer's Advocit

tae took a little trip intae toon one night last we in her business, an ${ }^{\prime}$ to dae a wee bit o, wis net mysel' on the side. "Mind ye dinna' forget tha black spool o' thread, number 40, Sandy, "says
as I wis drivin' no' forget it, nor the white spool, number 30 , nor the box o' hair-pins, nor the yard o' elastic, nor the stove
polish, nor the lamp-wick. An' ye were wantin polish, nor the lamp-wick. An' ye were wantin' a
couple $\mathrm{o}^{\prime}$ cans $\mathrm{o}^{\prime}$ salmon, too, weren't ye bend the soda biscuits, an' the cream-o, weren't ye,
"Hoot"
interrup, an' the remember them a" I guean, "gae alang, "wi' ye ought to gin practice is guid for onything. I'm gettin tae be a regular walkin' Eaton's catalogue, I $\mathrm{I}_{n}$ that $A_{n}$ ' ${ }^{\prime}$ ' ilka time he gaes tae the things a mon has tee juist the same. The city chap has an idea tho ${ }^{\prime}$, a' the farmer is daein' these times is rakin' dollars wi' one hand an' pittin' them awa' in wi' the ither. But he'd find oot different gin he
got bitten by the "back-to-the-land" bug. The got bitten by the "back-to-the-land" bug. The
way ye can get oot o' buyin' things, that I ken a
is tae follow wrecked on a desert island, or maybe to an army. An' mony's the thing the farmer has get in the way o' machinery an' so on that the
mon kens naething aboot. We're civilized the noo that we've got to gettin' sae that oor forefathers never dreamt hae a lot o' thin night mares. It keeps the money in circulation
richt, ye can say that for it, an' richt, ye can say that for it, an' gin a chap kenned
that there wad be na showery weather alang toward that there, wad be na showery weather alang towan
the end $o$ ' his career it micht be juist as weel avoid gettin' intae the savin' habit, but as can dae it wi' a fair amount om wark an guid manage.
ment. 'Hooever,' as ma uncle used tae say when ment. 'Hooever,' as ma uncle used tae say whan héc
get cornered up in an argument, 'that's anithe
matter.' What I trip intae toon. The first place ye aboot wis thet the baker's, as the auld wumman has na' been feeling Ower weel for a week past, an' didna , dae ony cooking. "but ,it canna' stay at that lang. They say flour, gaein' tae be ten dollars a barrel next weet, bread will have tae keep it company." The ne what stove-pipes an' ither things I When I had gol him the price. "Weel," says he, "wanted I asker honest truth I'm ashamed tae say it, but what ye've got it for a dollar three dollars. I ken ye could have that's the price to-day." "Oh," I I last year, bur ye're no' cheatin' yerself that, guid tin. 'Are "that' frae a mon the itherself noo," says I. "Are ye sun it he said he'd have tae mak' men I went tae pay as prices had gone up while I wis comin'." Aifter an' get a hame-strap I'd been to the harness-makers When I had bought the strap, wi' no remarks made says tae me "Wait athe the price, the harness-maker says tae me, "Wait a minute, Sandy, I've something here I want tae show ye. Talk aboot high prices, me a box o' linen thread that harness-makers use in
me an will their business. "When I started here," he went on, $\mathrm{an}^{\prime}$, as like that cost me one dollar an' fifteen cents, an', as ye see for yersel', that box is marked four
dollars an' eighty cents. Can you beat it?" "No," says I, "but I'm juist on ma way tae Jim McCuaig's store. It's likely he can."
When I got tae the store I started tae look for
the list I used tae tak' wi' me, until I thought $o^{\prime}$

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on has he
November 9, 1916
the resolve I'd made tae carry na more memorandums,
as Jean calls them. They say it's bad for the memory tae write ilika thing doon on a piece $0^{\prime}$ paper, sae hae given it up. Ye some a, otete things ye werer tauld
gang hame Weit, owher I had bought the white spool
 could call tae mind, whing else?," say' daein his best an, 'is, me forget somethin', I says tae him, "I
tae mak' me mat's all, an' noo I'll juist be hauldin' ma twa
think that hands up ower ma heid, like this, an' you'll gang through ma pockets an that whices. Is it a bargain? says 1. But he didna' seem tae think I wis in earnest n' " just lauched an" said, "Gie me what ye hae,
Mr. Fraser, an" the rest can gae in the books," says ie. An' sae we settled it, though it's pairt o' ma eligion tae wi' ma name an' family affairs an' sae on But when I got hame that nicht an' wis sittin' wi' ma reet up on the wood-box, takin a wee smoke berore ken what's comin ower the warkd at alt, Gin thing or politics or even the war. Gae where ye like it's naething but the, high cost $o^{\text {o }}$ iving in genera, an
he high price o $o$ 'this or that in particular. Folks the high price on this or that in particuar. Fiving up talking aboot the weather these "Weel, so says Jean, laying doon the sock she wis,
mitting for the soldiers, $(\mathbb{1}$ m
buyin' "ma ain, an, they're, forty cents a pair Sandy," she says, that as lang as a mon's pocket re-
mains sic a tender spot as it is ye'll hear him squeal ilka time onything touches it. As ye hae noticed, it mak's him forget baith the 'war an' the "weather. 'd like tae ken is, what's the 'reason for all these hat were takin' a hand in boostin' the market, an' I'm no' sure that I ken the real'cause yet." gin it werena' sae close tae yer nose yy'd see it for to dae wi' it indirectly, ye micht say, but the one plain reason that prices are gettin' higher is that there's
no eneuch men in the warld producing things, conno eneuch men in the warld producing things, con-
sidering the number there is tae use these thngs. up. The machine is oot $\mathrm{o}^{\circ}$, balance, that's $\mathrm{a}^{\prime}$." "Weel, "We in that's the disease, says ', "It "The thing will hae tae rine itsel' through time. All the commissions $\mathrm{n}^{\prime}$ ' will cure itakers in the country will never lower the price,${ }^{\prime}$-mheat a cent until they buy a farm an' start et back tae the land, maybe well see the crowd eadin' in an opposite direction from what they are the noo, an' when that day comes we can "look for
lower prices an' easier livin'. I'm thinkin' there's enough loafers in the cities o' this country tae help oot quite.a bit gin we could get them on tae the farms an' warkin' for a mon that kenned the business till they were ready tae start oot for themsel 's. They're talkin' aboot conscription
they try it for the land?
"Weel," says I, "it.
can never tell till ye try. $B$ But $I$ 'm thinkin' there'd be a few deserters aifter the first twa or three weeks.
Hooever, I'm gaein' tae bed," says I "an' Hooever, 1 'm gaein' tae bed," says I, "an' gin
dream ${ }^{\text {o }}$, ony
plan better than yer ain for getin" the country oot ot the hole it's in, r'll let ye know in the mornin'. Gude nicht," says I. It .

## Plant Trees About the Home.

## Editor "Thr Farmer's Advocate"

I chanced to-day to pick up a copy of Keats' poems
and opened the book at "Endymion" the opening lines of which are.
A thing of beauty is a joy forever,
Pass into nothingness
II have often before read those beautiful lines written almost a century ago by the youthful English
poet; but this time I received a different impression-a poet; but this time I received a different impression-a
deeper one, doubtless due to the fact, that it is a glorious October day in the country, my surroundings are beautiful to the eye, the trees are taking on their rich autumnal tints and all Nature seems in tune; and as I pondered ov thought came to me, what a thing of beauty
is an Ontario farm at all seasons of the year! (I am partial to Ontario, being a native of this province.)
The country is full of natural scenery: still if we have The country is full of natural scenery; still if we have the taste we have it in our power to further improve
along those lines by beautifying our homes as much along those lines by beautifying our homes as much
as possible and by so doing we shall most assuredly reap the reward-the refining influence of beauty which must permeate our whole being. We farmers have such wonderful opportunities compared to our
town and city brethren: for we have scope, I have in mind a gentleman of my acquaintance who is a lover of nature; we have only to pass his home to know it. This extra beauty was not always; it cost years ago he planted on either side of the King's years ago he planted on either side of the King's
Highway, the length of his farm, about one hundred maples which now are large trees, and a source of joy
to those who pass by. His home was further beautified by the maples, the grounds, which are quite extensive,

THE FARMER'S ADVOCATE.
1841
trees and ornamental shrubs. It is now a regular park,
and simplicity reigns supreme as no set rules were nollowed in the ornamenting, the individual using his
fol own taste, and it seems to me by so doing the beauty is more enhanced because the scenery looks natural rather than artificial. It has been a source of true pleasure and enjoyment to the inmates of the home as well as emple soon grow dear as the temple itself " the trees a part of this home.
This is a description of one of our many, many pretty homes; still, perhaps there are some reader their home surroundings by the plantinis of trees shrubs etc. Horticulture and agriculture go hand in hand to a certain extent; and to be really successful in the latter I think a fair knowledge of the former is required. Perhaps some may say there is no money home surroundings and a beautiful frontage add very much to the value of our home, just as the value o our farm is increased hundreds of dollars by good amply repaid for our work by the genuine pleasure in watching the growth of the tree which later gives us its shade and consequent comfort and happiness. Take for instance a hot summer day, compare the house standing alone scorching in the sun, no shade trees shaded driveways, cooling breezes, and singing birds Surely the latter is the place to rest soul and body, and s, as the poet says, a joy forever.
Leeds County, Ont.

## The Sugar Beet and its Uses.

In districts where sugar beets are grown the harvesting of this important crop has been proceeding
for several weeks. Many fields are already cleared but
 in certain localities. Owing to the tuber growing into the ground and having a heavy top, it is not
easily injured by frost, therefore harvesting can be easily injured by frost, therefore harvesting can be
delayed until late in the season. Carloads of beets are now being received at the factories every day and will continue to arrive until the weather becomes rosty. The marketing of the crop is more or less culty in moving Some growers have experienced diffiliving some distance from the railroad, especially if wet weather sets in malking the roads bad For this reason a large bulk of the crop is grown on farms
situated handy to a shipping point. Where beets can be grown successfully they prove to be a profitable crop. Growers have estimated that their total expense for growing and harvesting seldom, exceeds thirty dollars an acre, and with an average croop of
nine tons, at the prices paid the last year or nine tons, at the prices paid the last year or two, the
net profit is greater than for most crops grown on the farm. In an indirect. way sugar beets are also a profitable crop to raise as the frequent cultivation
through the summer cleans the land and leaves it in through the summer cleans the land and leaves it in good condition for succeeding crops, The roots going According to analysis sugar is made up largely of water, carbon-di-oxide and sunshine, combined by the
plant into the substance as we know it. These do not all come from the soil, consequently, if the by-
products from the sugar-beet factories are used on the


Moving the Sugar-Boot Crop.


## Automobiles, Farm Machinery and

## Winter Worries

Most of the good weather prophets admit that before we can have Indian Summer we must suffer
some inconvenience from a visitation of the sno some inconvenience from a visitation of the snow
If their forecast is to be depended upon, you will shortlir forecast is to bourself and depended upon, you will
overcome new diffulties. Sour car endeavoring to overcome new difficulties. Snow is practically, the
same as mud or grease, in so far as an automobile same as mud or grease, in so far as an automobile
is concerned. Should your wheels, run into a heavy bank, cut of the power immediately, and determine,
with the least possible delay, whether it is or not to extricate the machine without trouble In maktng your calculations, you must remember that great power is not essential in the majority of wheels can cling, the spinning of the which the rear in the digging of holes. If you have decided that it is posisible to get back on the road, bear in mind that it is always safest to move the Am,chine as gently
as you can in order that every diamond, or knob or other grasping device may chy diamond, or knob, steadily. Should this not release the car, lace some brush, leaves, pieces of wood or any other available material, in a path before the rear wheels, and endeavor to climb upon this foreign matter with maximum ease. When driving on a snowy road,
your safest policy will be to throttle down your machine and keep a steady forward movement in order that the rear wheels may not skid to disadvantage. If the you had better purchase chains are wet and muddy, in order that skidding may be avoided. This word skidding should be kept constantly in mind. It is oth.ng more nor less than an-attempt of the car to mainIf you try to turn sharply at a corner or even desires. road, the weight of the automobile does its utmost to go straight forward, but if the traction is of a sinat is frequently frauture, the result is side play that is requently fraught with danger. Some people
who have had bad skidding accidents, have been known to state that they were goong very slowly
at the time, but their statement does ont with the facts, for it is all a question of momentum endeavoring to follow a natural course. If you are
going slowly when your car skids, the side play will not carry you far, but if high speed has been mill tained the end motion may be continued for a considerable distance, and, in fact, the auto may turn Chains are a good form of insurance for roads, but on hard pavement of any kind, they dof not answer the same excellent purpose. In, the latter
instance you will find them noisy and harsh. If at any time your car becomes insy and harsh. If
and the wheels only suced nd the wheels only succeed in digging deep holes,
you will find a number of courses that may be followed,

Tieing ropes around the tires and between the spokes sometimen serves a good purpose, or rags or gunny
sacks can also be utilized successfully. In many in-
stances it hard bottom and make paths, but before taking sucme laborious step, we would suggest the placing of boards rear tires in branches, leaves, etc., in front of the rear tires in order that no unnecessary labor may be
incurred. If you find it difficult to shove materia close enough to the point of contact of the tires use a two by four or a fence rail to elevate the rear and jack ir this system fails, get a block of wood pelled to do a great machine. For those who are comother than main county highways count, that includes a hand axe, can be easily justified hole, that the motor peration to remove a car from a how, that the motor must not only develop enough the whole rear portion of the frame and to elevate the force of gravity created by the hole bodsely.
times the seme render at thall assistance that a man or tworcan render at the spokes of the rear wheels, will cive
that small amount of immediate energy necessary to extricate one from a difficult situation-cessary We could put down a long list of winter
thens, but we think it will be sufficient to say to she average sane driver, that in the winter no effort the summer. Those who drive calmly are. seldom embase wassed by skidding, and alowly everything, else, do not take hasty advice from passenbelieve that it is clever to introdutoring and who danger. If you are running along an element of and someone calls for a sudden turn, do not take this advice but rather slow down the car, reverse the engine, and take your new direction in deliberate time and the rear or front wheels start for the at any maintain your presence of mind sufficiently to steer the car head-on or tail-on into the ditch, but never allow position that it it is most lanting motion, as it is in this
por advice, of course, is mot good where overturn. This tremely steep, but in nuch a case, no words of caution
are of any aval In a previous article we revealed the secret of the
anti-freeze solutions necessaty anti-freeze solutions necessary in all radiators during
very cold weather. Before it is absolutely to use anything or. Betore it is absolutely essential
experience experience some treuble on cold days and probably
If, under these circumstances If, under these circumstances, you must leave your it is always well to lo cover the tadiator with a rome that
it or other warm material, as the engine will then down slowly and not require a great amount of effort
bination with wheat shorta. while the shorts-fed siorts. The table show made a
pounds each, those fed a half allo daily gain ance of shorts with Six $_{396}$ hundred and nine paditional gained 1.2 ppund 396 pounds of sugar beets replaced 100 beet pillp, combined produce nearly as large gains as shorts molasene

The beet tops have a fairly high feeding value
estimated that it is estimated that at harvest an acre of svalue ani
will yield about four tons of fresh on tops may be fed fresh, or ensiled fresh leaves. Thes taken when feeding either fresh or ensiled leaves th
they have a tendency to they have a tendency to purge the animed leave
stover, straw or hay should be combined with the
in such a move, as the longer you fuss with the motor suming without attaining mileage gas you are con-

Size of Disk to Use When disk harrows first came into use the common prefer, but the demand semeter, and this size we wiil The farmers conceivind the idea that they draw Whie this is true, the pulverizing action of the the
 Here's the reason: we would not have on a farm. sequently the pulverizing the slower it revolves, size of the disk puverizing effect is decreased of eone dry rolling along when the round naticed 20 -inch and letting it fall back in soil, raising it up a litte same position fall back in large clods in it upa lit process simply was before the disk passed over it. Tit creased the evapore actually in. moving at the same rate of moisture. A 16 -inch ais therefore pulverize and completely reverselve faste. Don't buy a disk too large in diameter.

The New Freedom. No more the Monday morning
That used to echo everywhere From washing board and tub; Till heart and muscles to strain Or bravely suffer with the pain

## No longer are we forced to climb

In order that we'll have the time To get the washing done.
So sister gets her beauty sleep,
And to her great delight
She has no trouble now to kee
Her fingers soft and white
And I have far more time to burn
Than ever heretofore,
Because I do not need to
The wringer any more;
For all these things, you understand,
We're doing by machine Since father bought an engine and
A tank of gasoline

## Canada's Young Farmers and Future Leaders.

Lessons From a Trip Through the

## Country.

## Editor "The Farmers

It was two years ago last August, we had finished
haying and were not particularly busy for a few days when waiting for the grain to ripen, that a favorite
uncle called at our, place and invited me to go with him on a two-days' motor trip through a tertain wood
agricultural district, where he had business to transact with several prominent farmers. It was an opportun. ity for an outing which I eagerly seized, and the things
I saw revealed to me the possibilities in agriculture and changed my attitude.toward posibities in agriculture
ized that there were treat possibilitios in work. 1 realgrowing pure grain, etce,., pans andibilities in stock raising, farming was a big
job requiring the best that was in job requiring the best that was in a man. was a big the
effects of using brains in the work, and also witnessed effects of using brains in the work, and also witnessed
the effect of endeavoring to forge ahead by main
trentth alone. The farm run by the careles strength alone. The farm run by the careless, shift-
less man was also to be seen and it conveyed lessons
to m. Probatly I am a little ahean of my story, Our
arruin io located in a district that is considered 11 is located in a district that is considered to be
average aysicultural communtity The soil is
loant sunc larts level, other parts rolling. In
of the matter is, the system of favming followed did
not tend to place farmers on "easy street" very quickly. It was a steady grind to "make street" very a radius of five miles similar conditions prevailed, and far from home and reading most homes, consequently we knew little of tiful in was doing in the world. We met people who had a
similar narfow outlook on life therefore similar nafrow outlook on life, therefore improvement
was slow. Our forefathers had hewn homes out the forest and planted and reaped; their children third generation are endeavoring to wrest now the from the soil by the same methods as were employed by their ancestors. In our small corner we failed to advance. Ready cash being and scarce, consequently
several of the young people several of the young people had leafte, consequently
their fortunes in some other larm to seek ing was an unprome other line, thinking that farm-
negative opportunities for adion that held out negative opportunities for advancement. I was out planning to leave the old farm the coming winter The trip through the old farm the coming winter.
contact which brought me in contact with farmers and farmers' sons, who were
doing things, changed my apinion about farming
and led me to see that farming was ant

## requiring thought and business ability in ordet that the soil be made to yield of its hidden weal

 wealth. Two short days to yield of its hiddena tired, discontented tay change me from thought all farm work a tired, discontented boy, who thought all farm work
was drudgery, to one who realized that even in the waun drudyery, things to one who realized that, even in the
there is a happen by chance but that there is a cause for every effect. From that day
commenced to investigate the the commenced to investigate the why and wherefore of
things done on the farm. things done on the farm. Every day brings new
problems and the more I study agriculture, the bigger
and broader the sin We left home early in the the morning and for the
first fifteen or twenty first fifteen or teventy miles I paid little antention to
the crops or locality the crops or locality through which we were travelling
but was enjoying the ride. My uncle had occasion
 people were doing. At one place a boy about my own age was busily engaged in a patch of of potatoes
near the house. near the house. There were no weeds visibte, and
the vines were green and thrifty. As they looked me vines were green and thrifty. As they looked
much healthier than ours at home, I enquired the
method of hand method of handling the crop. To my surprise this
boy enjoyed his boy enjoyed his work; it did not appear like drudgery
to him hoeing porptise this to him hoeing potatoes, and he could advance reasons
why the crop was good. In fact, such preparationk Why the crop was good. In fact, such preparations
were made before planting as would almost ensure ?

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late growth the mixture
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where everyth
looked well, fe
selected from the most productive and healthiets
hills the year before, For several years back care had een taken in the selection of the seed. We were not The cause began to dawn upon me. We had never thought of selecting a certain type of tuber from special hills for seed. Ours were taken from the bin fter the table had been supplied for the winter. We cut and planted them without any special soil premanured and plowed the previous fall and the soil put in good tilth in the spring. Tubers were cut in two ounces. It was explained that they had found two ounces. young plant a start if adverse conditions prevailed. The sets were planted about three inches deep, and, when growth commenced, frequent cultivation was siven killing weeds, but what was meant by conserving moisture? This was explained and I began osee new reasons for cultivation
and healthy?" I asked. "Oh, we never let the bugs get a start, and wee have found that it pays to spray with Bordeaux mixture to guard against blight," was the reply. "Furthermore, this spray seems to stimulate growth and increase the crop. We usually apply
the mixture three times in a season and sometimes more often. Poison is added to kill bugs, and so one spraying serves two purposes." I learned that my new friend kept track of what it cost to grow a crop
of potatoes and knew at the end of the year the profit of potatoes and knew at the end of the year the profit
per acre. This was news to me and I was about to make further enquiries when my uncle galled that he was ready to leave. The half hour had opened up a new phase of farming to me and for the re-
mainder of the trip new methods and ideas were continually being brought to my attention. The scales and, as we sped along I began to see new possibilties in the old farm that had given father, and his father before him, little more than a fair living.
For several miles we traversed clay roads and noticed that in places, probably for a half-mile or
more, the road would be good and then for some distance it would be rough and full of deep ruts. happened to comment on the condition of the uncle and it was then we found out that the good roads had been made and kept that way by a continued use of a split-log drag. It was pointed out that in
the spring and fall, and after heavy rains, a few farmers on the concession would take their teams and drag from forming, and always keeping a crown on ruts by farmers who did not believe in devo places owned to the public good without receiving payg their time saw an opportunity for doing some work in front of the home farm. I had heard about the drag, but its
usefulness was not impressed upon me until I saw usefulness was not impressed upon me unt saw
some of its work. We dined at the next place we called, and, after
dinner, we all took a walk back over the farm to see the crops and stock. Some of the crops looked no better than our own, but my attention was arrested
by a field of oats that was superior to anything I previously seen in length superior to anything I had previously seen in length of straw, plumpness of grain,
and freedom from smut. I learned that the seed of eight of the ten acres had been treated with formalin of treating the seed. There demonstration in favor barely a trace of smut, but the were eight acres with two acres was at least one-third smutted. If anything, and I began to was even worse than these two acres, and I began to see another way of increasing the value
of our crops at slight expense. We were of our crops at slight expense. We were shown the
results from carefully selected seed and our host formed us that since he had commenced saving seed from the best parts of the field and then thoroughly grading the seed before sowing, by running it through
the fanning mill several times, he had increased the average yield considerably, but he purposed hand selecting yienough considerably, but he purposed hand-
his seed from it. In this a small plot and save his seed from it. In this way he was positive proIn the pasture was a herd of twelve exceptionally fine were pure-breds, but no, all but three were grades but saved from the most prodused for years, and heifers the herd had been graded up cows. In this way
between 9,000 and 10,000 pounds of milk in a yeraging
testing and testing around 3.8 per cent. butter fat. Yes, every cow's milk was weighed at each milking and records
kept, so that he knew exactly what every cow was
doing at the occasionally so as to arrive at the feed cost per cow, Uncle enquired if our cows gave "much milk, but I
was forced to say "I don't know," as we didn't keep records but in my mind I was resolving that nex year-old bull was running loose and the owner gave us his pedigree and told the records made by his dam
and sire's dam. He was a splendid individual and his good characters were stamped on his progeny. And number of sleek, thrifty calves were running in the orchard. They were much superior to anything we
 where everyonthing was kassed in some fine looking farms
looked well, fences were in
londition; stock
on hinges, yards tidy, and weeds cut. Other farms careless or indifferent. saw the next day our trip was resumed. Again we surrounded by nice lawns with shrubs and flowers showing their gorgeous colors. On some holdings the barns were painted, and, to my mind, it increased the the of the property. At one place we called during cattle that was being fitted for one of the large shows. The attendant gave me considerable information about ceeding, caring for and training cattle that were to business in itself. While I had seen stock that this was had never paid much attention to it, but when the many important details that must be considered were explained, I wished we had pure-bred stock at home. saw erdinary more interest in looking after them One other important point was gained at noon that day when I watched the horses being fed. I
liked horses and it was my work to look after them, at home, but it was always difficult to keep them fat. There was no restriction made on either the oat fat or hay mow, consequently I fed liberally. But here fed a man whose horses were fat and sleek, who only did. Then it was explained to me that a horse's did. Then it was explained to me that a horse's
stomach being small he could not digest to best advantage large quantities of roughage. The morning and
noon feed of hay should be small, but should be innoon feed of hay should be small, but should be in-
creased at night. He claimed that it was wasting hay to feed too much. I was inclined to doubt his theory, but resolved to try it out on our own horses and see what effect it would have
two very enjoyable days. I had seen more in these two days of what was being done outside more in these borhood than I ever had previous to this, and our own methods seemed out-of-date as compared with what progressive farmers were doing. I realized that these men used their heads as well as their hands in doing
their work. Brains are as essential to successful farm-
tables and around the show-ring, I learned a good dhen representatives of the herd I had seen in August vere led into the ring to be compared with individuats fom other herds.
I find that it is necessary to get away from the easy to be self-satisfied and get in a rut one continuall emains at home with his work. Everytime I mee because I am now looking for them. Our farm and surroundings look more attractive than they did two years ago. By growing crops ou oil is best suited for, sowing good seed and looking we believe will conttinue to increase. I am not workin now because I am compelled to, but because I lik the work and find it interesting.* The longing to leave
the farm and po to the city has left me. Farming is the farm and go to the city has left me. Farming is big job and requires head work as well as hand wor contented, now I am happy with the stock, crops, etc The motor trip, with the opportunity of learning, what others were doing, changed my idea of rural life and prevented me from quitting the farm and going on
the pay-roll of some firm in the city, thus tending to decrease the production of food and to increase the cost of living. True, life is not all sunshine on the arm, but before deciding definitely to leave it, yiel the work from every angle. If it isn't giving you a
living find out why. It is very often the man, not ving find out why, fho is at fault.

Farmer's Son.

## THE DAIRY.

Poor Versus Good Sire.
Although a scrub bull is still to be found at the y the sire of good individuality and whose ancestor have made profitable returns at the pail. The sire
lacking type, conformation and quality and of nondescript breeding has bee
the means of keepin
many dairymen strug


Golden Fern's Noble
ing as they are to carrying on any other business In the morning father and I discussed several probhe did not agree with all my ideas he was willing that I should work out some of my plans. That was two years ago. I have not revolutionized the farm work, have made some changes and have discovered that our soil is as productive as any if given a chance and that pure-bred stock will live on our farm as well as on others.
I immediately began keeping records of our cows, the cows we owned two years ago have been sold. The scales pointed out the boarders our eyes were unable to see. They were sold to the butcher and others put in their places, two of which are pure-breds.
The bull we were using, no longer suited, so we purchased one whose ancestors had proven to be valuable animals. The price almost shocked father, and brought forth uncomplimentary remarks from the neighbors, but his progeny are superior to anything we ever had
on the place, and when his heifers freshen we will have a greater idea of his real worth. "A record herd cannot be built up in a year, but we have made a start. half and in less than a month I noticed an improve ment in their condition, without increasing improveand, if anything, they were working harder than earlier in the season. In reality 1 had been wasting a lot of hay. 1 also discovered that some cows pay for heavier feeding than others. In fact, where In previously saw
drudgery, I now see something of interest at every turn. The trip increased my thirst for information about farming, and that fall I attended the Canadian National Exhibition. While I still took a delight in going
through the mid-way, more time was spent in the

## loss cannot

loss cannot be estimated, than the price of two good it would be more dairymen realize that the poor as well as the good the better it will be for the dairy to the offspring ften nece ary to dairy industry. It is and there are few places where money will return as large interest as when invested in the right stamp of a thoughtlessness bull in the herd shows plainly the the penny so close to the eye that the dollar farther off cannot be seen. It is foolishness rather than economy to buy a common or scrub bull because he
costs less money than one with character and breeding. to Cows used to give little more than enough milk to feed their calves, and the records that are being attained to-day are the result of using good bulls.
High prices are being paid for sires that have the proper backing. Are the animals worth the money? When we read of the progeny of such sires giving 30,000 pounds of milk and 1,200 pounds of butterfat in one lactation period, and then think of these
dams transmitting the producing qualities to their sons and daughters, the producing qualities to their tive. The results do not all occur in one year, or in one generation, but each succeeding generation is deficient in quality or is from a port producer is deficient in quality or is from a poor producer,
those characteristics are passed on and the breeder loses in the end. The right kind of a sire may cost $\$ 200$, while a scrub may be bought for $\$ 75$. Here
is a saving of $\$ 125$. It is three years before the heifers commence producing, and the interest at sir per cent. on the investment of the poor bull will bring his cost up to atout of $\$ 89.32$. The well-bred bull
will have cost $\$ 237.50$. The care and feed for the three years is about equal. Consider bull calves

It. tinht commof bor theiere from grade cows and the perion it io ${ }^{2}$ milk 30 ding than ther dam
 If there are only teen heiech, heier the priee of the buil bearil and ite aree only teen heient, the priee of the bule
 Thene in bred right the heiferger ill dhop oul ive kept.
will surpass their own records, wan so the results



 poisition tordect, due lere are to thany dairymen in this the importance of securing a well-bred sire to place grade herd as much as in a a purebred herd. The milk Yitadd or many riad ha hid eueutid, and in in ome in-
 He Before purchasing the next sire, consider the effect the producing ranks on three or four years from now,

## The Growth of the Dairy Industry in Nova Scotia

F Seldom does a longsettled country make suci rapid gromth in any branch of agriciture ase as the the last nine years When new countries stattr righ in any line as adi the Prairie Proniries statat rige to dairying we can expecto ophenomenal advance bul Woountry with a history extending over a period mineral wealth, the forests, the fisheries, and all Their kindred industries have long overshadowed the agriculture of Nore Scotia, or at least have tended to
retard it de develo retard its development by divertirng from the enoil much
capital and labor. The creameries of Nova scotia capital and labor. The creameries of Nova Scotion
have encreased wonderfull both as to numbers and activity during whe last decate but thumbere ondy
indicative of an agricultural awakening that has swept
 Dairy products there can probably be handled to
better
advanatage than meat animale as

 industry in Nova Sootia could still double its present output in a a short time, for the grieatest impetus to
haterprife on the part of farmers is a succesful and

 had an output of 30,0 oor pounds oi butter. That same year the Soctsburn reamery turned out 116,000 pounds,
nnd
so rapid
has ben its end so rapir has been its growth that this year it wiil
manufacture 300,000 pounds of butter. Such a suceses sure to encourage the patron, the would-be patrons, and him whocourage shewe patifon, hee wouldobe patron,


Progress of Creameries in Nova Scotia.

| Year | No. of <br> creameries <br> in operation | Pounds of <br> butter <br> made | Value of <br> butter <br> made |
| :---: | :---: | :---: | :---: |
| 1907 | 7 | 164,184 | $\$ 40,896.00$ |
| 1908 | 7 | 163,147 | $40,88.00$ |
| 1909 | 6 | 183,248 | $45,812.00$ |
| 1910 | 10 | 256,420 | $76,669.20$ |
| 1911 | 10 | 320,763 | $83,398.38$ |
| 1912 | 11 | 470,603 | $130,076.17$ |
| 1913 | 14 | 709,012 | $194,802.46$ |
| 1914 | 17 | 913,273 | $2,57,600.00$ |
| 1915 | 20 | $1,224,483$ | $366,011.24$ |
| $1916^{*}$ | 21 | $1,612,627$ | $475,814.61$ |

## Estimated September

It will be observed in the foregoing table that splendid
 One creameries are now turning over a product worth
nearly hall
its infancy, meall oon tornars. Ths industry, yet in
 ditions are such that those intimoteler onn nocted con- ivit dairyng look for the creamery to surpass in usef fuless
the cheese factory in that Province During the last fery yeras there has been considerable
development in outlving districts
where development in outlyng distritete where cone faisitiereare are
such that the centralized creamery cannot be operated.
 hone too bright at that time prospects Sor success were
 vicinity of \&30,000 to the patrons, and will pay probabe the
run ald the coming winter. There is nothing to prevent
the


cash value. The LaHave creamery at Bridgewater has greater advantages. Several railroads converge at that point and each line brings in its quota of cream totalled up to 132,935 pounds of butter, besides a splendid ice-cream trade. Seven thousand pounds in one week is its best record in summer and 3,500 pounds
its lowest winter week. The ice-cream trade reduces its lowest winter week. The ice-cream trade reduces week. These are two creameries by 1,000 pounds per week. Tifese are two creameries operating successfully are serving the farmers in a splendid manner throughout
the Province.

## Methods and Oversight

The creameries are operated by co-operative com market is largely local ent batrons. The exported from Halifax. Summet dairying is still supreme, yet there is a noticable development towards increase the total output and the which will, no doubt The cream is delivered three times each week in summer and twice each week during spring, fall and winter Deliveries are made in individual cans and seven creameries now grade the cream and pay according to quality a tag on every can, indicating the weight and puts of the contents. If it is No. 1 quality, $a$ white tag is attached; if of No. 2 quality, yellow or some other turned what his consignment when his can is redifference of two cents made in the price of the is a qualities. Generally the patrons take to this system and a feature worthy of notice is, that those creameries which grade the closest won highest honors at the Provincial
Exhibition at Halifax last September.
Under legislation enacted on M
cheese factories and creameries are obliged 14,1914 , all but they must first be approved by the Superintendent This system provides for the reversight of the manu. facture of butter and cheese, rules of sinitationabe observed, and the whole industry is consolidated under the supervision of W. A. McKay, Superintendent of Dairying for Nova Scotia, and in charge of the Dairy All new buildings or plants Superintendent before a certificate is approved by th ized creameries must cost at least $\$ 7,000$, and the ordinary country creamery cannot be established under $\$ 4,500$.
Oin Cape Breton Island two creameries have been established and operated by the Department. The patrons have bound themselves to organize and take

Producer and Consumer Benefited
At the Provincial Fxhibition small fans were dis-
tributed illustrating the creameries in and indicating how the creamer.es in the Producer and consumer will
and解 A cash market for unlimited amount of milk products Better kept calves and better cows.
The stimulus to higher milk production
An incentive to do cow testing regularly
The average production per cow doubled in five
The advantages to the consumer will be:
A uniform quallty of butter.
A higher quality of butter all the year round
A more uniform price for butter
A more uniform price for butte
As the production increases a co
of butter at a still more uniform constantly higher grade

## Founded 1888

A grater intorut in the ruar Hife of the Rovine
 keep better stock, to grow more feed, and to the aino to
proitable dairy cow.

## Do We Use Enough Milk?

## The high cost of living, or as some are wont

 it the cost or high ivings, affects the farmer to toenthe city dweller, although posibhy and extent, as he he is able to secure ponsibly yot to the mal a a
 if grad uall, soine price of milk, but ter and and uphies secure for them, less the cartage to same price these are erodics that artege ho market
nutients. Milk is a food that in in itself wipes
wid It is the chief food of the yourn in itselit w will larger quantitieg could proftatb 1 enter into
dally ration. Even at nine or t ten the cheapest food on the mor ten cents a quaraditit:
 food, but Canadians look upon it more as a
a food. According cood According to the chemist, ana unuary than

 meat in usually. preferred. Butter is used paverer
 thasesione areat and even at the high price is
withouther Authos whith we would not think mithout. Authoritie e claim that hy the ue o. why is not more milk used, especietyg At the Natiocured at frist hand?
 the weight of the articles which equal one guart of milt and the price in springfild during the week of the show At other points the price may be higher or lower

## 12 ounces of beef.

12 ounces pork chops.

## 9 eggs......................

pounds, 8 ounces bananas.
5 pounds, 12 ounces cabbage.
2 pounds, 3 ounces potatoes.
7 pounds, 7 ounces apples.
6.5 ounces dry beans
6.5 ounces corn mea
5.6 ounces cheese....

Milk can go higher than it is at present, and still
be a cheaper food than many articles which are found on the average table. More cheese and less meat
might also tend to decrease the cost of a meal.

## Water Requirements of the Milk

 Cow.According to analysis average $/$ milk contains ap
proximately 87 per cent. water and from this proximately 87 per cent. water and from this one
would gather that the dairy cow must consume large quantity of it in order to produce milk. Possibly few realize just what quantity is necessary for the average cow. At the Pennsylvania Experiment Station it was found that cows of average weight fed dry hay
where the temperature was 73 degrees, drank 107 where the temperature was 73 degrees, drank 107
pounds, or 10.7 gallons daily. In investigating thit question Professor Eccles found that cows in milk drank a good deal more water than when dry. Heavy producing cows drink considerably more water than production may have the:r need supplied if they are watered once a day, but most authorities are of the opinion that a cow should have a chance to drink at least twice a day, and that she will do better work is much diversity of opinion regarding the advisability of taking the chill off the water for cows in winter: it hardly stands to reason that a cow can produce to he maximum if she is forced to drink water from a hole in the ice, or stand in the biting cold waiting her
turn. When the weather is bad she very often returns to her stall without having quenched her thirst and must wait until the next day, when it is possible ehe nay drink too much. Feed must be consumed to raise the temperature of the water drank to body
temperature. Consequently, cows exposed to cold to drink icy cold water cannot be expected to produce a quantity of milk equal to the cow which receives her drink in the stable, where the temperature is moderate unless she is given more feed. Even then the chill danger of such occurring when the cow can drint ail danger of such occurring whe
shants, when she wants it.

True, it necessitates the outlay of considerable
cash to put water in the stable, but the experience of many dairymen is that it payst th have water before of cows afl the time. There are different. systems which give good satisfaction and there is time this ail to instal the water in the stable and so give the
milk cow every opportunity to make the best use of mer feed.
power, gasoline forced to a tank in the stable by wind power, gasoline, ramm, hand power, electricity, etc. ave the level of the stable floor, water will flow by
ravity to troughs or individual buckets in front the cows. Iron, cement and wooden , troughs are
Amall trough with a float in it may be used in use A small trough with a float in it may be use to regulate the height the water can raise in the re-
ceptacles in front of the cows. In a stable we were in ecently, the owner did not wish to put in a permanen water system as he purposed remodelling his stable a a year or two, but, realizing that his cows should do better if watered in the stable, he has ordinary
eave troughing placed in front of the mangers and
turns water into it twice a day. This system was turns water into it twice a day. This system was
used last year and he was satisfied that his cowis
did much better than when they had to go to a trough in
the open. He claimed that water standing in the open, He claimed that water standing in
he tank in the stable was considerably higher in temperature than the water outside, and believed this ras a benefit to the cows. In another stable a cement
rough runs along underneath a wooden manger which on hinges. The cows open the manger at will to there has been very little trouble from dirt getting into the water trough, On another farm recently visited,
the well is about 200 feet from the stable and the cows have had to go this distance in the winter time for vater. Last year piping placed in the otable instead of at the well. At present the pump is
worked by hand, and the owner claims that it is much nore satisfactory and the returns are better when
vatering the cows in the stable than turning them out

The claim has been made by some that cows require exercise and that it does them no harm to be turned
out for water every day. True the exercise is all
fight, but is the water as warm in the outdoor trough as in the'stable, and do the cows get all they require?
Watering in the stable does not prevent them being Watering in the stable does not prevent them being
turned out for exercise. The point is that a cow in milk requires a large quantity of water every day. to get the supply in small quantities and often, rather than to gorge herself once or even twice a day on water,
the temperature of which has not been tempered by the temperature of which has not been empered ty
the heat of the stable. Arguments are in favor of watering milk cows in the stable, at least dur.ng the coldest f spreading disease by several cattle drinking out of a continuous trough, or even two drinking out of one
bucket in the stable. It may be possible to spread contagious disease in this may, but the risk appears a common trough the summer through. If milk the object, the cow must have a sufficient supply of clean water, whether ste obtains it in the stabse,
the water trough outside or the spring creek. For the whe water trou groutstide or best prring creek. For the tre
when she can drink at will in the stable. when she can drink at will in the stable.

## POULTRY.

Don't expect the hens to lay this winter unless you
ve them proper accommodation and the right kind of feed.
Egg shells are made of lime, and if it is not furnished the birds they cannot produce eggs. It may
in the form of oyster shell or broken plaster.

It is advisable to crate-fatten and market surplus
cockerels and cull cockerels and cull pullets during this month. With
the price of grain it is doubtful if it will pay to keep
them much longer. them much longer.
and promote egg production. This can be supplied the form of clover leaves, mangels, or turnips, which are usually found around the average farm.
If the pen was dark and damp last winter, it should be remodelled. Poultry require a light, dry, well-ventilated
pen. It need not be too warm but it must be dry.


Do not forget that the hen requires grit to grind her feed. She picks this up in the yard during the will be woticed Turkeys can find very little feed on open range
now, and require fairly heavy feeding in the yard in now, and require fairly heavy feeding in the yard in
Order to fit them for the best markets. If any of the birds show signs of sickeness, isolate them, as they may
be the means of spreading disease through the flock.

When hens are passing through the moult, they require animal food in order to grow their new coats. consequently it may be an advantage to feed a little
beef scrap, or meat in some other form. Beef liver,
lights, and beef heads are frequently available, and id and will aid in promoting growth of new feathers and one of the mostion of egss. Mork is the cheapest and one of the most satisfactory forms of animal
It should be given to pullets as well as old hens.

## Canada Needs More Poultry.

 The high price of eggs and poultry at the presenttime signifies a scarcity of these products. The demand, whether for expor or home consumption, is poultry industry, given by H. S. Arkell, Assistan Live Stock Commissioner, Ottawa, is to the effect that The country is facing a shortage not only of current The country is facing a shortage not only of current export demand has been so great that Canadians will be obliged to import if their requirements are met Therefore, increased production rests upon a sure founda-
tion. Poultry flocks can be increased materially with out much dditional outay for buidine and equip ment, and the increased labor involved is not such as will bear heavily upon the time of those charged with the care of the stock. Poultry on the farm should be
profitable. The present high price of feed is considered by some as the argement pinst increasisg the focl byt it must be considered that the selling price of the product is from forty to sixty per cent. higher than it

was two years ago, which should leave a fair margin | of profit. |
| :--- |
| A few |

in the aggreagate poroduced more than sumficient for its wwn requirements this year and last. Between seven and eight million dozen Canadian eggs were exported
to Great Britain last year, and, as an indication of what oreat Britain last year, an, arly is going forward this year, nearly one million dozen supply on the British market is still short, and there is a demand for many million dozens more. Therefore more and better poultry might well be the motto on every farm. At the present time eggs are Branch does not anticipate a sharp decline immediately Rollowing the conclusion of the war, as it has been noticed
where prices have advanced gradually, as in the case of where prices have advanced gradually, as in the case of staple article of food, and with the high prices of meat there is a tendency to be an increase in the consumption of them. With the prevailing conditions it should pay
ot increase the flock even if feed is high in price, but oo increase the flock even if feed is high in price, but the aim should be to secure and keep how

Keep the Henhouse Clean. The farmer who would allow his cattle or horse considered slovenly by his neighbors, and yet the men who are very particular about keeping their main stable clean allow the henhouse to go for months without removing the litter and excrement. It is not necessary e cleaned every day, but it should be done once a month at least. Give it a thorough cleaning in the fant This it, and it does no harm to whitewash the interior. pump. If carbolic acid Zenoleum, creolin, or some other disinfectant is used it will aid in destroying the vermin. No one can afford to keep hens that are
infested with lice or mites. Fresh straw should be be placed on the feeding floor every month; it should be rom six inches to a toot teep in order to give the hens
lenty of exercise searching for their grain feed. There is no beter way of getting the blood in circulation
and heating the bird's body than by vigorous exercise in the morning. Consequently, many poultrymen make a practice of sprinkling grain in the litter a ter che birds first thing in the morning. This straw becomes cut up and more or less dirty in a few weeks time, which necessitates a cleaning of the' pen. If the droppings are left o heat and the moisture given off is not good for the birds. Clean the pen in the fall, and aim at keeping it clean all winter. It is as important as keeping the
main stable clean. Poultry will not do well in filth main stable clean. pouitry will no

## Cost of Producing Eggs.

For five years an International Egg-laying Contest of the contest is for eleven months, and the following itemized account of cost of feed and egg production
per hen shows a substantial profit for the fifth annual contest
Number of pens.......
Number of firds
Number of egss laid.
oost of feed .........
Average price of eggs per dozen.
Average number of eggs laid per bird. Average cost of feed per bird.
Profit over cost of feed per bird........................
Average eggs laid per bird in the winning
Average eggs laid per bird in the winning
Average eggs laid per bird in the winning
Poultry Director, B. C.

## HORTICULTURE.

## Clean up the vegetation in the garden and burn destroy any insects that may be hibernating there.

Store the vegetables in a cool, dark, well-ventilated tain their moisture and fayor.


#### Abstract

Plan to graft out the unprofitable varieties in the spring. Aentify them if the orchardist is not sure. It heuld be well to mark them in some way so they can be worked over in the spring when means of identification are pretty well erased.


Often it pays to rib up the garden patch in the fall. The ridges dry out much earier in the spring tha
the level land, and the garden seeds can sometimee be put in before the land used for field crops is ready to we put in beiore the lane used or this can be done before
workin seeding and that is better than aft
which is commonly the case.

## Factors Limiting Peach Production.

Generally speaking, there was a splendid crop o peaches in Ontario in those districts which time ha proven are suitable for the production of such a cop These areas are not marked by county or townalip lines; they depend altogether upon the proximity of haracter of the soil. In the Ontario Bulletin No. 241 are mentioned a few factors limiting the production of-peaches, which are herevith reppoduced
Hut many years of of the peach is almost subbtropical, gradually fitted it for severer climates. Undoubtedly we can reasonably expect that varieties will be developed that will withstand more severe climates and more ad verse conditions than our present varieties. At present however, a minime or 20 degrees Fahrenheit belo sidered the limit of hardiness of wood and bud. The tree must be well prepared or it will not stand even this xtrem
A soil either too wet or too dry is not the most pro-
ective to the roots. A wet soil freeze deenly, and is rective to the roots. A wet soil freezes deeply, and is quently conducive to weakness. A soil too dry cannot readily replace the evaporation lost from the twigs
and a shrivelling is noted which leads to loss. A oif and a shriveling is noted which heads to loss. A soil too rich in nitrogen is also conducive to a sappy growth
which will not stand the extremes of cold. Generally speaking, the medium rich, deep, warm, well-drained soils produce the hardiest trees. A diase slower-growing varieties are hardiest, and a limit ol
0 degrees Fahrenheit below zero may be bet as a marls 20 degrees Fahrenheit below zero may

Winter Wrappings for Strawberries, There are two methods followed by which the
crawberry plantation can be successfully brought strawberry plantation can be successfully brought
through the winter. One is to enrich the soil when the plants are set, so a heavy covering of growth may be phocured. The other for inches of straw, or strawy barny ard manure Many of the best growers depend upon the first method which the mulching system enhances. Personal observation, however, leads ys to believe that whilo weedd may give considerable trouble, especially when the
plantation is to be kept for a second or third crop, the mulching with straw, or strawy manure, is a more efficien safeguard against frost injury than any other practical peference over coarse manure, becaus is given tho ettle so heavily on the rows and tend to smother tho ween the rows where this mulching is often raked be moisture and tends to tects as a covering to conserv ust. When strawy to keep the fruit clean or free from can be raked off in the spring and cartied away, and the erere they will owed to remain-between the row seme thime kreep down the dust and dirt.
Thee proper time to mulch is in the fall before any heavy precipitation of snow takes place. It is better
to have the material underneath the snow than on to if it. As soon as the ground freezes sufficiently that oad can be teamed over it, without the wheels sinking into the ground, is a suitable time to mulch the straw.
Therries. The mulch will tend to retard the bloom in th spring, and thus prevent frost injury to the blossoms. It spring, well, however, to carry this principle too far.
is not
When the leaves begin to blanch under the covering It is well also to
It is well also to make provisions for all surplus water
o leave the plantation.
Strawberries cannot stand to leave the plantation. Strawberries cannot otan beter rhan wheat, and if there are low places or pools in the field, water furrows should be
ing all excessive moisture to escape.

## Eastern Canada's Biggest and Best Plowing and Tractor Demonstration. <br> lines the the days then Franklin wrote the foregoing <br> the firms get their machines perfected. It will be

frome, But the braingof the ooth orno and Working, many changes a accomplished, and are stil the place of the bovs and direct men whon harer, to ned
their backs upon the land and


 and farm labererersht must do; morning, as mow most formest the small tractor which the manuf a curers and farserners shalh
fope may be so perfected that itc an
 To demonstrate the porssibilitites of of the plow and the
 Muder the and 3 and the Provicecial Plowing Match,
 canaad. The weather was ideal held

 being parkeed in theans of cicld, buy the he from 700 to 1,000 and there was enearly a mile of bugries sas tand hine too,
 and narrow furrow, well set people. The straight many were they who agreed with the apperin, and
man who had followed a team tor mond



The Plowing Match







 It thent hare we wish to say again, as we have dome








Agincourt; 2, David J. Tran, Claremont; 3, Eddie
Timbers, Stouff ville; 4, R. McCamus, Best crown and finish: L. Clark.
Fifth Class Stouffille; 2, W. J. Reed Orillia: 3 Winfred Timbers Ellesmere.
Sixth
St

## 1, Shester Lee, Orillia. ©nder 16 years, in stubble:

 Munro Class, best team and equipment: 1, W. H Munro, Ellesmere; 2, Jas. Henderson, Brown's Corners; Sweepstakes, best plowed land and field: BertKennedy, Agincourt.

The Tractors Drew the Crowds. the throngs which gathered around came to see, and
followed them across the fiolds criticized, were delighted with what thed, studied was a big show with a big crowd and no Maw. It clover hallers, small threshers, gasoline enere, including light equipment, grinders, potato planters, binderic manure spreaders, rollers, discs, cultivators, plows, etc. It was a real farm demonstration.
We are pleased to note that investigation and
inventive genius are mating inventive genius are making the tractor smaller year
by year, and it may be that the hard work and long
hours of fall plowing and other farm work will in in hours of fall plowing and other farm work will in a
few years vanish and the plowboy will again have
time to get in the whistle whol time to get in the whistle, which the poets of the have
associated with him, and Goldsmith pas "The plowman homeward plods his weary way, will not be weary at the end of a day's work, and plod,
ride home ride home on the comfortable seat of his cultivating
automobile. The big tractor did not prove as successful
some expected in the West some expected in the West. Neither will the smaller
tractor in the East, unless the manufacturers realif
fully the position fully the position of unless the manufacturers realize
Mixed farming prevails in this Proviner in Ontario Mixed farming prevails in this Provinec. The farms
are not large. Fields are small. Work is varied.
The tractor to. prove easy to turn io in small spaccess must be small, handy,
should emphasize its should emphasize its usefulness on the belt for such
work as grinding, cutting feed, filling silo, if nerissary
running a small threshing running a small threshing out fit, turning the separator,
operating the milking, machine, cutting wood, etc, The small, light machine, easily handled and which will buy if he does buy. The maniufacturer murist
also bear in mind that conditions are such on the
Ontario farm, and this is also a point Ontario farm, and this is also a point to be considered
by the farmer, that some horses are absolutely neces-
sary. This being true, the omechin sary. This being true, the machine must be reasonalle
in price for it will at best replace only a part of
horsce horses, and the farmer will have only a part of the
it on all his cutting, grinding and such worl to use
it it pay. Otherwise an extra horse or two to make
kept to advantage. One strong point in favor of
tractors will be their They can be thacle use in work around the farm,
be light, handy, small and suitable for the the must
varict, variety of farm work.
The demonstration suitable for the wistest
in aear showed the tractor
$\qquad$
too if the latter is satisfied he has the and the thest farmer
The tractor is in the
ready to emerge. the experimental stage and nearly
From our own observations think that the tractor will prove, in so fare inclined to tion is concerned in Ontario, in its great as cultiva-
on the plow. It would work all right success but there are difficulties in running it on the binder, loose land. Heavy clay would be likley to stick and
clog, and the weight of ther where a loose bottom is preferable. Hacks at times
out of a barryard out of a barnyard might present difficulties. Spring
 Here is
ground. fall plowing quickly after harvest. In shine-in doing fall plowing quickly after harvest. In helping a farmg At certain times, to be used when in a rush in harvell.
or in the spring or in the spring's work, such as getting fields plowed,
which had been left over from or corn. And left over from fall, for instance, land
ond work on the farm. price down accordingly of the tractors down; cut the on the belt, and all the best farms in importance farms in Ontario wil present were ready to buy what they saw farmers
will be col will be convinced as time woes oney saw. More
pleased the people and furnished

Finishing Lambs for the Block On the Dominion Experimental Farms some interest-
ing results have been obtained from a number of
perinuen ing results have been obtained from a number of ex-
periments in lamb feeding conducted during the last
few years.

$$
\begin{aligned}
& \text { The large percentage of Canadian lambs are marketed } \\
& \text { in the dal direct from the pastures. All the lambs from }
\end{aligned}
$$

$$
\begin{aligned}
& \text { in the fall| directent from the of Canadian lambs are marketed } \\
& \text { the farmer's flock are usually lifted All the lambs from } \\
& \text { the samo from }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the farmer's flock are usually lifted at the same same time, } \\
& \text { which means that the well-finished lambs of good } \\
& \text { weight must helo }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Which means that the well-finished lambs of good } \\
& \text { weigh must help to sell the light, thin lambs, which } \\
& \text { may be } 25 \text { well-bred, but being latelambsor }
\end{aligned}
$$ have not done as well as but being late lambs lambs, which lambs of uniform weight invariably con. Well- finished price than mixed lambs, varying in command a hize, weighter

finish, hence it is always more profitable to hoid ligish, hence it is always more profitable to hold the
lighter lambs and sell only those of uniform weight and
finish. Again, the selling of the most finsh. Again, the selling of the most of our Canadian a slump in price. Lambs not required for for immediate con-
sumption are held in cold satses wholesaler in view of the usual increase in price of from $\$ 1$ to $\$ 3$ per hundred pounds between the months When the farmer appreciates these two conditions
the lamb trade will be revolutionized and the farmer
will finis he lamb trade will be revolutionized two cond the farmer
will finish his work and reap full profits for food Consumed by, and labor expeat full profits for food-stuffs farmers with abundance of roughage can well afford to
finish from one to thres finish from one to three carloads of lambe during the
winter months, thereby making top market on the farme produce and a good margin of profit in addition. Realizing the existence of such conditions work along these lines has been of investigational Dominion Experimental Farms throughout on the Details of this work may be seen in the annual reports.
However, a brief summary of the work to date may be
Profits in Winter Feeding Lambs.

$$
\begin{aligned}
& \text { In the six years' work conducted on the Experimental } \\
& \text { Farms system, the profits on the winter finishing of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Farms system, the profits on the winter finishing of } \\
& \text { lammen have ranged firom } 25 \text { cents per head to } \$ 2.10 \\
& \text { per head over the coost }
\end{aligned}
$$

$$
\begin{aligned}
& \text { per head over the cost of feed. In other words. } \\
& \text { the Experimental Farms and Stations have purchased } \\
& \text { unfinished lambs ont }
\end{aligned}
$$




$\qquad$ The class of the finishing of steers or shoats.
lamthe availatle and tharket depends largely on the
 wecishing from sil to tuot pounds, if thin, may be profitably
pout in the feed lot for a sloort finish, and if good falt pastures are a vailathle this may be as profitable a line
of work as any. The fimished, heavy laml, weighing
from si) to 110 pounds should never be purched for

 ondition of the pastures and of the lambs themselves
st well as the markets, will regulate the time for purchase mished, whether this be November or Aheril or any imishect, whether this be November or April or any
intervening month. This applies also to the selling
of lambs off grass. Finished lambs will make small
gains at a very high cost per pound, which cost will

Novem

## 

Tractors and Teams Seen at the Plowing Match


International "Mogul" Tractor


Avery Tractor.
Pulling double disks on fresh plowing


The Ford Tractor
One machine burning kerosene the other gasole


A Finish in the Jointer Class


Case Tractor plowing down clover.


Big Bull Tractor


Making a good finish


Showing a land in the first class

THE FARMER'S ADVOCATE
$\frac{.}{2}$ well-finished lamb, not overdone, and ranging from 85 to 105 pounds ive weight, depending upon the
breed and season of the year. This, of course, does not apply to the young lamb trade of the spring and early summer. The following table shows the average profits over
the cost of feed in the feeding of lambs on the Experithe cost of feed in the feeding of lambs on the Experi-
mental Farms throughout Canada during the past
six years:

Fine corn stover will also make profitable gains, but there is a large percentage of waste. However, a small amount may be fed satisfactorily as a supple-
ment to good quality leguminous or grass hay. Coarse ment to good quality leguminous or grass hay. Coarsy 50 per cent less valuable in lamb finishing than good quality timothy hay, and approximately 60 to 75 per
cent. less efficient than clover or alfalfa hay. A

Average Profits in Winter Lamb Feeding.

| Experimental Farm at | $\left\|\begin{array}{c} \text { No. of } \\ \text { years } \end{array}\right\|$ | Weight of lambs when put in | Buying price per cwt. | Selling price per cwt. | $\left\{\begin{array}{c} \text { Spread be- } \\ \text { tween buying } \\ \text { and selling } \\ \text { prices } \end{array}\right.$ | $\begin{gathered} \text { Profit over } \\ \text { feed, per } \\ \text { lamb } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ottawa, Ont. <br> Charlottetown, P. E. I. <br> Nappan, N. S. <br> Lemmoxville, Que. <br> Indian Head, Sask. <br> Lethiridge, Alta. <br> Average. | $\begin{aligned} & 5 \\ & 4 \\ & 3 \\ & 1 \\ & 1 \\ & 5 \\ & 3 \end{aligned}$ | Lbs. 99 63 84 90 90 70 69 79 | $\begin{array}{r} \$ 6.65 \\ 4.65 \\ 5.80 \\ 56.00 \\ 6.00 \\ 5.66 \\ 5.79 \end{array}$ | $\begin{aligned} & \$ 8.25 \\ & 6.25 \\ & 7.83 \\ & 9.00 \\ & 6.00 \\ & 7.67 \\ & 7.50 \end{aligned}$ | $\begin{array}{r} \$ 1.60 \\ 1.60 \\ 2.03 \\ 3.00 \\ \hline 2.00 \\ \hline 2.71 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.38 \\ .70 \\ 1.60 \\ . .64 \\ .34 \\ 1.35 \\ 1.05 \end{array}$ |

This table shows an average profit over feed-on Experimetal Farms and Stations throughout Canada
in the feeding of many carloads- of $\$ 105$ per lamb
and in the feeding of many carioads of sion per lamb approximately 81.70 . Since the spread between buy
ing and selling prices has exceeded this amount during the past two years and promises a still further rise during the next two years, one is safe in anticipating
areasonable profit in lamb finishing, in spite of the very arigas price of promb at the present time. If this applies
hig to the purchasing of stocker lambs for winter feeding it would apply doubly to the farmer or shepherd having able to finish lambs before putting them on the market. Feeds for Winter Lamb Finishing.
A large number of feeds have been tried in this
vork and these may be briefly treated under the four work and these may be brielly treated under the four headings: dry ro
Of the dry roughage, alfalfa hay is an easy leader,
closely followed, however, by fine clover hays and fine mixed hays. At the Experimental Station Lethbridge, Alta., it has been found that alfalfa hay is worth $\$ 21$ per ton for the finishing of lambs. It has also been pound that alfalfa hay alone or with meal is less profitable than-when succulent roughages, such as roots (turnips and mangels) or green oat sheaves, also holds true with clover hays. Good quality clover hay is worth from 10 to 50 per cent. more in lamb feeding than timothy or similar grass hays. Proving the value of tucculent roughages, it was found also that good quality profitable gains than clover hay alone. A hay made from peas and oats, well cured, wwill produce satisfactory
gains but at least 10 per cent. less profitable than alfalfa gains but at least 10 per cent. less profitable than alfalfa
or clover or a mixture of these with oat sheaves. ———n
Toronto, Montreal, Buffalo, and Other Leading Markets,

## Toronto.

Receipts at the Union Stock Yards numbered 289 cars, 5,971 cuattle, 304 calves, 656 hogs, 2,939 sheep. The cattle
market was slow and draggy, all butchers market was slow and draggy, all butchers
were 15 to 25 cents lower; medium steers were 50 cents lower; canners and cutters
were ten to fifteen cents lower were ten to fifteen cents lower, good
milkers
and
springers
were milkers and springers: were steady;
common kinds were slow; lambs and sheep twenty-five cents higher. Calves steady.
Hogs slow at prices quoted by packers. The total receipts of live stock at
the City and Union Stock Yards for he past week were

finishing lambs, but this should only be as a supplement to clover hay and roots. Generally speaking,
the richer the hay and the better it is cured the profits will be made in feeding it to lambs. Coarse dry roughages of any sort are less palatable, more
wasteful and less profitabie than are the finer feed of the same varieties.
from lamb faulent roughages play a very large part in profits succulent roughages, such as turnins, mang, good beets, corn silage, pea and oat silage, or the like make the dry roughages, and grains more. palatable ard more digestible. Again, these succulent roughages
are cheaply grown and are rich, nutritious 'foods in are cheaply grown and are rich, nutritious foods in
themselves. Where corn silage may be raised for $\$ 2$ per ton, it is the cheapest and dest succulent roughage ior lamb finishing. When fed with clover hay and
grain it will produce 5 per cent. grain it will produce 5 per cent. greater profits than
a mixture of turnips, clover hay, and grain.
However, a mixture of turnips and silage with hay and grain will usually give greatest profits. The turnip is the
safest root feed in finishing lambs, wether or even ram lambs may be particularly where Mangels, particularly, may have a dangerous influence didneys of wethers and rams.
considerably from yhich may be most profitably fed vary of those grains year to year with the market values barley, and feed wheat are all excellent grains for lamb
finishing and may be fed whole fine-ground. A mixture of these three will never give much better results than any one grain singly. Corn is another grain which excels in the fattening of lambs, particularly those requiring only a short
finish. Corn-fed lambs on the Central Experin Farm have reached a profit of $\$ 2$ per head making great gains at a reasonable cost. However, at the
present market prices corn would not be profitable
valuable in lamb finishing, varying ing value are ver screenings. Where the variation in the quality of th screenings, Where there is a high percentage o may have a food value almost equal to a $a$ mixture o taining a high percentage of black-seeds and fore matter have less feeding value. Screenings with dir and profits. A mixture of whole screenings with baitis and oats has given from 10 to 40 per cent barlej profits than the screenings alone, the variation beiter
due to the varying quality of the screenings. due to the varying quality of the screenings. Blackto feed, in that a large proportion of the feed wingerous
through the lambs in an undigested cond through the lambs in an undigested condition and pass again germinate on the land. Black-seeds fed alone are unproitable and the lambs will make small gains if
compelled to depend on this feed for their sustenanco
It is doubtful in, under average conditions in lamb finishing. However where fed probitably expensive the following, meals may be profitably very Bran is an excellent addition to a grain mixture, especial:-
ly in the absence or partial absence of succulen ly in the absence or partial absence of succulent feed Linseed oir cake might often be profitably added to the is even superior to the linseed oil cake. Cottoal grain when not exceeding 10 per cent. of the ration seed orten be a proitable addition to the grain ration, Miid lings, $n$ nature when moist and should grains are of a pasty

To briefly summarize the feeds, one might say that the character and quantities of feeds depend largel ration including some good evcecilent ailable. properly balanced as to nutritive contents will almos invariably give greatest proits. Generally speaking it win per pay to exceed one pound and a quarter. of feed more 5 pand of sucul 3 to 5 pounds of dry roughage per head per day at and
time during the finishing period.

## Cost of Equipment

The cost of equipment for the finishing of lambs sheep of any class. Sheltered are not necessary for from drafts and having a dry floor, are that is required. A good, tight, single-board shed with doors opening to the south or, ior the prairie provincel or the straw stacks even the protection of the busl be ample for this purpose. Cher average conditions and troughs or a combination rack and trough rail cost little per carload of lambs fed and, if made portable may be used ror both summer and winter feeding. ment, in buildings, utensils, preparation of equip or in any other way as do sheep. In these days when abor is extremely scarce, this phase of animal husbandre hoficient appeal strongly to the farmer who has not ufficient labor to go into dairy husbandry, swine, or ental Farms Bran
of 372 cars, 5,073 cattle, 439 calves,
13,462 hogs, 2,522 sheep, but a decrease of 480 horses when compared with the Pactesponding week of 1915 ,
commencing Monday, Nov, 6th, as followencing Monday, Nov. $\$ 10.15$, fed and as
fatered,
\$10.65; weighed off cars, $\$ 10.00$ \$10.65; weighed off cars, $\$ 10.90$.
The The live-stock market opened on on sale. All classes of good butchers and heavy steers sold steady to a shade mon cattle selline previous week. Common cattere selling at fairly steady prices,
although in a lew cases they were shade lower. For some weeks past the bulk of butchers' cattle have been of
very poor quality, and sold for every cent they were worth. Choice cows freely at from $\$ 6.25$ to $\$ 6.50$ a a few extra
choice bringing $\$ 6.75$ to $\$ 7$ Canners choice bringing $\$ 6.75$ to $\$ 7$. Canners
and cutters were strong and in demand selling at from $\$ 3.25$ to $\$ 4.50$. Milkers
and springers-Good to choice milker and forward springers were firm and brought $\$ 80$ to $\$ 115$ each; only extra
choice cows brought the latter price common milkers and backward springers well-finished bulls met a ready sale a
from 86.50 to
$\$ 725$. from $\$ 6.50$ to $\$ 7.25$; Bologne and com
mon bulls at $\$ 4.85$ to $\$ 5.50$; although receipts were heavy, the cattle trade
was active to strong and brought very
satisfactory prices this past week have been much in demand and sold
at from 7c. to 9 c. per lb. The latter at from 7 c . to . 9 c . per lb. The latter
price was paid, in many cases, by farmers
who intend using the sheep for breeding
purposes. Lambs - With Monday's heavy receipts the lamb market broke at least 25 c . It recovered quickly and of the week, selling at from 810.50 at $\$ 11$ for choice, and $\$ 8$ to $\$ 10$ for culls Ottawa Valley Blackface lambs are arriving quite freely and are bringing
top prices; one lot of 200 sold at $\boldsymbol{\$ 1 1 . 1 5}$ on Thursday. Calves-The calf market improved considerably, being steady to
active all week. Choice veal sold at 9 a to 10 z/2. per 1 lb .; a few extra choice Eastern grassers pe 41 ., heavy fat and tb. There was a large run of hogs, pend
they sold steady
年 quotations sent out by packers. Fe d and watered sold at $\$ 11.15$ to $\$ 11.25$;
weighed off cars, $\$ 11.40$ to $\$ 11.50$. few decks of selects sold at 10c. higher Quotations on Live Stock.-Choice heavy steers, $\$ 8.35$ to $\$ 8.65$; good heavy
steers, $\$ 7.65$, to $\$ 8$. Butcher steers heifers-Choice at $\$ 7.50$ to $\$ 7.75$; good at $\$ 7$ to $\$ 7.25$; medium at $\$ 6.50$ to $\$ 6.75$; common at $\$ 5.50$ to $\$ 6.25$. Cows,
choice at $\$ 6.25$ to $\$ 6.50$; good at $\$ 5.75$ on $\$ 6$; medium, $\$ 5.25$ to 85.50 ; common
at $\$ 4.25$ to $\$ 5$; canners and cutters at
 at $\$ 6$ to $\$ 6.25$; common at $\$ 5$ to $\$ 5.50$. Feeders, best, $\$ 6.50$ to $\$ 6.75$; medium,
$\$ 6$ to $\$ 6.25 ;$ common, $\$ 5$ to $\$ 5.75$. Stock, ers, light, good to choice, $\$ 6$ to $\$ 6.50$;
common to medium, $\$ 4.50$ to $\$ 5.50$.
 cull lambs, 8c. to $81 / 2 \mathrm{c}$. per th Lithit butcher sheen, 7c. to 9c. per lb.; heavy, iat sheep and bucks, $61 / \mathrm{cc}$ c. to $71 / \mathrm{cc}$. per
lbi. culls, 2 c. to 5 cc per 1 lb . Veal calves
 and grassers at $41 / \mathrm{c}$. to $71 / 2 \mathrm{cc}$. per ib. Hogs, fed and watered, $\$ 11.15$ to $\$ 11.25$,
weighed off cars, $\$ 11.40$ to $\$ 11.50$. Less
 ${ }^{5} 5$ off stags, and one-half of one perr cent.

Broadstuffs.
Wheat--Ontario, No. 2 winter, neiw, per car lot, $\$ 1.75$ to $\$ 1.77$; No. 3 winter, mercial, old, $\$ 1.70$ to $\$ 1.72$; No. 2 com-
mom-
mercial, old $\$ 1.60$ to $\$ 1.3$. No 3 com mercial, old, 81.60 to 81.63 ; No. 3 com-
mercial, old, $\$ 1.51$ to $\$ 1.55$ (according mercial, old, $\$ 1.51$ to $\$ 1.55$ (according bay ports), No. 1 northern, new, $51.91 / 4 /$ nern, new, s1.88\%; No. new, $\$ 1.741 / 2 \mathrm{z}$; old crop, trading 3 c above ew crop
Oats. Oats.-Ontario, No. 2 white, 62 c , to
44c., nominal; No. 3 white, 61 lc to 63 c nominal. Manitoba oats (track, bay
ports)-No. 2 . W. 644 c.i. No. 3 ,

Barley.-Malting barley, according to
freights outside, $\$ 1.10$ to 11.12 nominal: reights outside, $\$ 1.10$ to $\$ 1.12$, nominal:
feed barley, $\$ 1.02$ to $\$ 1.05$, nominal.
. $2, \$ 2.35$ to $\$ 2.40$, nominal

November Corn. - A No. 3 yellow $\underset{\substack{\text { ment. } \\ \text { Ry. } \\ \text { Rlour: }}}{\substack{\text { No }}}$
 to sample, i Hay,-Trac 12 to
straw

sis | track, |
| :---: |
| Bran. - oro | Shorts.

Middlings
November 9, 1916
$h$ percentage of
loats, screening oats, screecingas
to 2 mixture of screenings con.
ecds and forri ening with dint
engreatest grins
ings with beit as mikt ber are dan seeds fond beir suremint

Cotan



suation


## ss also are very value, howere the quality of <br> Corn. - American (track, Toronto) No. 3 yellow, new, 98 c ., December ship-

Cheese Markets




 No.
ment.
Rye.-No. 2 , new,
Rlour.
R1.25
 b935. Ontario, new, winter, according to sample, in bags, $\$ 8$, track, Toronto. Hay and Millfeed.
Hay- Track, Toronto, No. 1 , per ton,
$\$ 12$ to $813 ;$ No 2 , per ton, $\$ 10$ to $\$ 11$. Straw.-Car lots, per ton, $\$ 8$ to $\$ 9$, track,
Bran.-Per ton,
Shorts.
Mortdings.- Per ton, $\$ 34$
Good Feed Flowr
ood Feed Flour.-Per bag, $\$ 2.50$. Country Produce.
Bquares, 43c. to 44c., per lb.is creamery squares, ${ }^{\text {solids, }} 40 \mathrm{c}$. to 42 c . per Ib.; dairy, 38 c . per lb.; sepa Egss. - New-laid eggs advanced, sell-
ing at 47c. per dozen, in cartons; fresh
 Cheese.- June, 24 c . to 25 c . per 1 bb ; new. 23c. per ib.e. twins. $231 /$ c. . per 1 ib.
Honey remained stationary in price willing at 12 c . per lb.; one-lb. sections,
$\$ 400$ to 83 per dozen. Poultry.-Shipped in very heavily during past week. Live-weight prices:
spring. chickens, per lb., 14c.; spring

 ibs., per 8.0 to $\$ 4$.
dressed,
Hides and Skins

Hides and Skins.
hides, flat 20c., country hides,
c.. country hides, part cured, cired, 21c..; country hides, part cured,
19c.; country hides, green, 17c.; calf
 sheep skins, country, , 11.50 to $\$ 3$, lamb
skins and pelts, 81.50 to $\$ 2$, hors hair per 1 b. , 38 c c.; horse hides, No. 1, \$6 to
$\$ 77$ No. $2, \$ 5$ to $\$ 6$; wool, washed, 42 c . \$7\% No. 2,85 to $\$ 6$; wool, washed, 42c.
to 45 c . per 1 lb .; wool, rejections, 35 c . to 38 c . per lib. . wool, unwashed, 32 c .
to 35 c . per ll.; tallow, No. 1 , 8 c . to 9 c ;
Wholesale Fruits and Vegetables. Potatoes advanced in price on the the New Brunswick Delawares selling at
22.25 per bag; British Columbias, $\$ 2.10$ $\$ 2.25$ per bag; British Columbias, $\$ 8.10$
per bag; Prince Edwards, $\$ 2.10$ per bag; per bag; Prince Edwards, $\$ 2.10$ per bag
Westerns, $\$ 2$ per bag. and declined slightly, selling at 85 c . to Oc. per bag.
Parsnips we
elling at 40c. to 50 c . per 11 in lightly, and $\$ 1.35$ per bag.
Carrots remained stationary in price
Cabbage kept firm at $\$ 2.25$ per bы. quantities and sold at $\$ 1$ to $\$ 1.50$ per
dozen.
Tomatoes still came in in small lots, but were generally very poor quality some
parly
per 11 good ones bringing 50 c. Canadian grapes were received lightly good ones bringing 30c. to 35 c . per 6 -qt. basket.
British Columbia onions came in freely, and sold at $\$ 3.75$ to $\$ 3.85$ per 100-1b
and Celery improved in quality; the Thedcase; variety seling at $\$ 4.50$ to $\$ 4.75$ per
catighton bringing 40 c. and 90 c. California grapes were shipped in heavily, the Tokays selling at $\$ 2.75$ to $\$ 3$ California lemons declined slightly, Oranges remained
desirable sizes sellingigh priced; the others going as low as $\$ 4.75$ per case.

## THE FARMER'S ADVOCATE

1849

## Montreal

Choice cattle were scarce on the local market last week. Demand was not
very active, however, and was principally
fron stock for canning purposes to obtain Canners' bulls were made at $41 / \mathrm{cc}$. to $43 / \mathrm{c}$.
per 1 b ., and of cows at $31 / \mathrm{c}$. $13 / 2$ per lib., and of cows at $31 / 4$ c. to $33 / \mathrm{cc}$.
per lb.
Common steers ranged from selling to 6 c . per 1 b .; medium quality
sell $18 / 2$. to 7 c ., and god

 sheep and lambs; as a consequence for market held very firm. Lambs sold at 10.1 c c. to 11 c . per 1 b ., 'and sheep at
$63 / 4 \mathrm{c}$. to. $7 \pm / 2 \mathrm{c}$. per 1 lb . Calves were in demand at 4c. c . 6 cc . for ordives were and
up to 10 c . per Ib. for best. The market for hogs continued about steady, and
sales of selected lots were sales of selected lots were made at $113, \mathrm{c}$.
to $1 . \mathrm{c}$., while good hogs sold at $111 / 2 \mathrm{c}$.
to 11 . to 113 .". . pre 1 Ib., weighed off cars.
Horses. The market continued dull, and dealers said that they made practically no sales during the past two
weeks. Prices continue steady, however, as follows: Heavy draft horses, weigh
ing 1,500 to 1,700 lbs., $\$ 200$ to $\$ 250$ each light $\left.\begin{array}{l}\text { draft } \\ 1,500 \text { horses, } \\ \text { lbeighing } \\ \$ 1,400 \\ \text { to } \\ \$ 200 \\ \text { each; small }\end{array}\right)$ horses, $\$ 100$ to $\$ 125$ each; culls, $\$ 500$
to $\$ 75$ each; choice saddle horses sell at $\$ 200$ to $\$ 250$ each carriage Dressed Hogs.- The market for
dressed hogs was moderately active dressed hogs was moderately active
and prices held steady under constant
dena demand at $163 / 4 \mathrm{c}$. to $163 / 4 \mathrm{c}$. per lb . Potatoes.-Although the potato market was very strong at the moment and higher
prices were predicted, the news coming prices were predicted, the news coming
from Washington may affect the situation considerably and cause a decline to take place: It was stated that Washing-
ton was about to prohibit, or had alread ton was about to prohibit, or had already
prohibited, the entry of Canadian potatoes
into into the United States owing to disease The effect of such an order would be to quantity of potatoes available for the creased. Meantime car be greatly in potatoes were quoted at $\$ 1.85$ per 90 libs. ex-track, Green Mountains being $\$ 2$ which is will above previous quotations,
In a smaller way 20 . would be added to these prices
for syrup Syrup and Honey.-The market for $8-1 \mathrm{lb}$. tins were 90 c . to 95 c . each; 10-lb. tins, $\$ 1.05$ to $\$ 1.10$ each, and 13 -lb.
tins, $\$ 1.25$ to $\$ 1.50$ each steady at 15 c . for white clover comb, per li., $121 / \mathrm{c}$ c. to 13 c . for brown clover
comb and white extracted, and $101 / 2$ c. to 11c. for brown extracted. Buckwhea Eggs.-The price
advance week by week, reference being now more particularly to new-laid eggs. These were quoted at 30 c. to 52 c . per
dozen, while so-called ${ }_{38}{ }^{48}$. No. 1 selected were firmer at 39c. . No. 1
candled, 31 c
Butter.-The market for creamery experienced another advance, owing largeBritain. Firiest creamery was quoted
 qualty sol within $1 / 2 \mathrm{c}$. of these prices.
Undergrades were
wuoted
to $40 / 2 \mathrm{c}$. according to quality. Cheese- - At a auction No. 1 white
cheese sold at $2213-16 \mathrm{c}$, , and No. 3 was frmer here at 223/c. to 221/c fore
 Eastern colored w
and white 1 sc. less.
Grain.-The market for oats was very strong and prices advanced.
Canadian Western oats were 68 c .;
No.
I being $671 / 2$ c.; No. 3, 66 c. ., and No. 2 feed, 65c. per bushel, ex-store.
Flour.- The continued advances in the wheat market have brought about further advances in flour. Manitoba first patents were 810.10 per barrel; seconds being
$\$ 9.60$, and strong bakers', $\$ 9.40$ per barrel, t 8000 to 20 for 90 per cent, patents, in wood, and \$4.25 to \$4.40 per bag.
Millfeed.-There was no change in this market, bran selling at $\$ 28$ per ton, $\$ 33$; mixed mouille, $\$ 36$, and pure grain mouille, 838 per ton, in bags.
Baled Hay.-Hay was about the only

No. 2 baled was $\$ 13$ per ton; No.
$\$ 11.50$, and clover mixed, $\$ 10.50$ per ton,
ex-track. ex-track. further and were $\$ 2.10$ each, being a new high record. Calf skins, were 1c.
higher, being 32c. per 1b. for No. 1 , and
31s. higher, being 32 c . per 1 bb . for No. 1 , and
3ct. for No. B . Beef hides were steady at the recent advance, being. 24 c . for
No. $1 ; 23 \mathrm{c}$. for No. 2, and 22 c . for No. 3 . Horse hides advanced in a striking man-
ner, and were $\$ 4$ to $\$ 5$ each. Rough ner, and were $\$ 4$ to $\$ 5$ each. Rough
tallow was $2 / 2$ c. per 1 lb ., and rendered tallow was $21 / 2 \mathrm{cc}$. p .
$71 / 2 \mathrm{c}$. to 8 c . per 1 b .

## Buffalo.

Cattle--Offerings of cattle were liberal ran in the main to a medium, fair and
common kind there being common kind, there being a marked
scarcity of real choice shippina scarcity of real chaice shipping a and
butchering cattle of any class. Killers
here here comment on the fact that never

within their experience in the trade has there been so few well-finished Shipping Sters.-Choice to prime | natives, $\$ 9.50$ to $\$ 10.25 ;$ fair to good, |
| :--- |
| 88.25 to $\$ 8.75 ;$ plain, 87.50 to 88 , |
| 8 | very coarse and common, $\$ 7$ to $\$ 7.50$;

best Canadian, $\$ 8.40$ to $\$ 8.65$, good, 87.50 to $\$ 8$; common and plain, \$7 to \$7.25.

| Butchering Sterrs. - Choice heavy, |
| :--- |
| 88.55 to $\$ 8.50$; fair to good, $\$ 7.50$ to $\$ 8 ;$ |
| 8 | best handy $\$ 7.75$ to $\$ 8.50$, fair to o oood,

$\$ 6.75$ to $\$ 7.50$; light and common, $\$ 6$ to $\$ 6.50$; yearlings, prime, $\$ 9.50$ to
$\$ 30.25 ;$ fair to good, 88.50 to $\$ 9$. butcher heifers, \$7.40 to $\$ 7.65$; fair

 | heavy fat cows, $\$ 6.75$ to $\$ 7$; good |
| :--- |
| butchering cows |
| 6 , to | to fair, $\$ 5$ to $\$ 5.50 ;$ cutters, $\$ 4$ to $\$ 4.50$; canners, $\$ 3$ to $\$ 3.75$.

Bullis.
Best
heavy,
s6.75 to $\$ 7$; good butchering, $\$ 6.25$ to 86.50 . $\$ 7$ to 87.15 ; commo to fair, $8 \mathrm{sed.25}$ to
85.60 ; best stockers, 86.50 to $\$ 7$; mon to good, $\$ 5$ to $\$ 5.50$.
Mitcher
Milchers, and Springers.-Good to best, in small lots, $\$ 80$ to $\$ 100$; in car-
loads, $\$ 70$. to $\$ 75$. Hogs.- Prices last week, notwith-
standing the liberal supply, were held well above the 810 mark. Hogs weighng up around 20 pounds were very
scarce and these kinds have been
outselling the 1160 . outseling the 160 to 170 -pound kinds Monday a few good hoge brought sion.25, but burk of the reccipts ran toward
the York weights, and general run of sales were made at $\$ 10.10$. Tueschay
the York weights sold at $\$ 10$ and $\$ 1010$ the York weights sold at $\$ 10$ and $\$ 10.10$,
bulk $\$ 10$, and some of the better weights ranged from $\$ 10.15$ to $\$ 10.25$; Wednes-
res day's market was steady to strong; Thursday prices were strong to a dime
higher, and Friday's market was steady higher, and Friday's market was steady
to a dime lower or about the same as Wednesday. Yorkers going from 810 to
$\$ 10.10$ with some better ing $\$ 10.15$ and $\$ 10.25$. Monday pigs
sold at $\$ 9.25$, and before the week was out buyers got those weights down to
 were 46,000 head, as compared with
47,263 head for the week before, and 47,263 head for the week before, and
62,600 head for the same week a year $\underset{\substack{\text { ago } \\ \text { anh }}}{\substack{2, \\ \text { and }}}$ last week was pretty uniform on lambs tops sold at s10.75; Tuesday's trade
was stearly; Wednesday best lots from $\$ 10.50$ to $\$ 10.65$; Thursday prices were a dime higher, and Friday's trade was steady, tops fetching from $\$ 10.60$
to $\$ 10.75$. Monday cuil lambs sold up to s9.75, Monday cull ambs sold up
to 89.75 Tuesday on they raned as the 89.50 down. Sheep weak wethers could not be quoted above $\$ 8$,
and Friday, top ewes, kinds that sold and Friday, top ewes, kinds that sold
Monday from 87,25 to $\$ 7.50$, were hard to place above 87. For the last being against 23,987 head for the week
before, and 29,800 head for the before, and 29,800 head for the same
week week Calves.-Market
improvement last week. Monday tops landed at $\$ 11.50$ and $\$ 11.75$; Tuesday prices were a quarter higher; Wednes-
day values showed a further gain of
fifty cents: Thursday day values showed a further gain of
firty cents Thurday bull landed at
$\$ 12.50$, few $\$ 12.75$, and Friday, which
s. was the high day of the week, majority

## THE ROYAL BANK OF CANADA



Savings Department at all Branches
weekk culls sold from 39 down, and on
Friday's were placed as high as $\$ 10.50$. Friday receipts included around 400 head of
Canadians, and they sold from 85 to \$5.25 for the grassers, and on up to $\$ 12.50$ for the top veals.. Offerings the last week were 2,600 head, as against
2,789 head for the week previous 2,359 head for the week previous, and
2,35 head for the same week a year ago.

## Chicago.

Cattle,-Beeves, 36.75 to $\$ 11.75$ western steers, s6.40 to $\$ 9.75$; stockere
and feeders, $\$ 4.06$ to 87.85 ; cow and heifers, $\$ 8.50$ to 39.50 ; calves, $\$ 7.50$
to 81.50 and light $\$ 8.00$ to $89.55 ;$ mixed, 39.05 to $\$ 9.80$; heavy 89.10 to 39.80 ; rough Sheep.-Lambs, native, $\$ 8.40$ to $\$ 10.90$.

## Gossip.

The Price of Buttor Fat.
The price paid for butter-fat by the which mention is made in their advertioe ment, should, read "42 to 46 cents pe
pound fat" intead of 40 to 45 cents.

## Sale Dates.

Nov, 9-W. H. Littlefield, Eraitford,
 Breeders Association at St. Thomas, Dairy cattle Dreecerse, ${ }^{6,}$ Slouthern Counties Aydire
 Or., Holotens,

Coming Eventa.
Nov. 21.-Ontario Vegetable Growerd Torohto
Nov. 22 and $23 .-$ Ontario Horti-
cultural Association Convention, Prtio ment Buildings, Toronto. Winter Dhec. 2 to 9 , International Fat Stocl Show, Chicago, III.
Dec. 8 to 9.-Toronto Fat Stocl
Canadian Judges at the International. Canada will be represented at the
forthcoming International Live Stock forthcoming International Live Stock
Exposition at Chicago by several wellknown judges. In the cattle depart-
ment, Prof. H . Barton, Macdonald College, Que., will judge milking Shorthorns,
O. D. Brien, Rigetown. Ont., John
G. Lethbridge, Glencoe. B. Armstrong, Teeswater, Ont., will
judge Cotswolds, Lincoln and Leicester judge Cotswolds, Lincoln and Leicester
sheep respectively
Robt. Graham, ToBelgians and Drafters while Alex Galbraith, Edmonton, Alta., will assist in making the Shire awards. An
innovation this season will be two innovation this season, will be two
judges from South America.
Carlos M . Duggan and Pedro T. Pages both of Buenos Aires, Argentina, will judge
the grade and cros-breed steers and
breeding Shorthorns respectively.



Rabindranath Tasore The famous
Who is now lecturing in the United States, He
We marde
Literature, bute seon one the Noite


## TEast and West.

 by rabindranath tagoreIThe following' poem by Rabindranath Nobel prizes for literature, gives a oflimpse into the Eastern point of view as regards time ago in west., Speaking a short time ago "In yapan, Tagore used these will be carried on by which the East will change the aspects of of ectern
civilization, infusing life in it
modere civilization, infusing. life in it where
it is a machine, substituting it is a machime, substituting human
heart for cold expediency, not caring
so much for power and success as for so-much for power and success as for The blood-red line is not the radiant red
Of the rays of thy Of the rays of thy soothing dawn day.
On the seashores of the West
The funeral pyres are emitting
The last flames
decadent Civilization.
The worship of energy
In the battle fields or
Is not worshipiping Thee
Perhaps the all embracing rays
Of Thy light of ioy Are lying hidden on Eastern shores
With patience Under the veil of humility
In the darkness of silent

Yes, the rays of Thy light of joy
Are lying latent
In the East
To liberate
AmongtheBooks
The New China.
T. "The New China,", By Henri Borel, Terrace, London, Eng.
One of the first strols that Mr. Borel took in Peke ing, ledt him to the Legation
Quarter. Here two things struck him: first that the entire district given over to the toreign legations was practically
a fortress, sith walls and glacis. -then
the ugliness of the buildings il. the ugliness of the buildings. "Every-
thing seluded, separated, suspicious,
thostile,"
the says,"
national mind, these ambassadors, if at the North Pole."一And, in regard
to the buildings, "what I, as an artist, to the buildings, "what I, as an artist,
cannot forgive my white brethren is that they have made this European Ghetto in Peking so ugly and curopean place. Almost every Chinese cottage in Peking, even the smallest and poorest,
has some beauty of line and color, but nearly every European building in the Legation Quarter is a vulgarity
A dull, crude, commonplace city of
barbarians, shapeless, colorress, lacking
in distinction, huddled in the midst of the exquasite old Chinese architecture
which makes Peking a dream. "makes Peking a magnificen of the city

## The

Peling, he explains, consists of three
divis.ons: the outer or Chinese city just within the outer walls; the Tartar city, inside of a second wali; and the walled and guarded by watch-towers, At the time of which he wrote the last
Emperor was still alive "The So Heaven," and resided in this inner precinct with the ladies of the court, the most, remarkable women who ever Through these concentric cities, from great-anel-avenues, bordered by wonderful
temples and adis res perspective-with colossal arches archating th ways. Each avenue ends at a closed gate, which marks the boundary of the
Holy of Holies, the heart of hearts, the Forbidden City" which then en shrined the sacred person of the Emperor, of Peking is picturesque:
Chinesereas the three outer walls of the City are sombre and dark, striking one with dread and terror, the wall of the is a delicate pink, like theing warlike, is a delicate pink, like the rosy hue of tiles of a golden color, shining brilliantly in the sun. All buildings in the Forbidden City are covered with these gold-colored wall there is a magnificent pavilion also covered with golden tiles. This pink wall and the glittering. golden pink impress one like something in a fairy light, under the cloudless sky of sunstands this Forbiddden City, glimmering
like some legendary city of enchant ment." and yet even as he wrote the foundation, of the throne was tottering. and the
revolution simmering which was to revolution simmering which was to
transform the great Chinese empire with its Manchu overlords into a re

The Streets and Houses. The great surprise of Peking for
the foreigner, Mr. Borel notes, is its long wide streets, outlined with fine stately $p$ ai-lous or three-story arches
of marble or wood. Some of these streets
still still remain essentially Chinese, al-
though everywhere electric lights and other western conveniences are being
installed; other streets show installed; other streets show European
influences more markedly. Along the Chinese streets, the houses are unsays, are two adjacent ones similar: what splendor of color, what outlines! The carving of the doors, the posts, the
window-frames, the roof-work, is fine and sometimes, as delicate as lace. The
roofs-one notices this particulaty roofs-one notices this particularly
when looking from the top of a wall
-are very slender, in the form of tents
a remembrance and relic of nomadic times through the sky; the signs and shopposts flame in gold on black or red and all the houses are painted in har-
monious colors. If one looks down from a wall, one beholds the rosy walls of the Forbidden City with its brilliant and blue $p^{\prime}$ ai-lous and pavilions of gold and red and blie, roofs of red and brown, white pagodas, grey towers with borders sing in the light. Yes, that is the right Wlong the streets outside of the Imperial City moves a motley crowd Chinese in the long blue national costume; Mandarins in carriages with glass windows; solemn riders on donkeys; caravans of camels: $\quad$ with coolies darting
about everywhere
with rickshaws. "In the street," notes the writer, "th Chinese are the most orderly people the world. They do not push. There is who would throw Peking a street-boy foreigner." " throw mud, or jeer at a the city are closed all the gates of Ch' cien Men between except two, the Tartar cities, and the He Chinese and a very small water-gate giving admission, from the Legation quarter to the station of the Tsientsin Railway, and so, with the dusk, Peking is cut off from the
outer world
until next morning.

Modern Innovations.

## in this the modern innovations

 striking was a theatre. "It of the most conceivable to me -that huge, Russiancircus filled rafters. How the modern, formerly the bitterly hated, attracts in Peking now! Not only the cheaper seats were full Manchus of the where Chinese and their ladies. So, Chinese ladies and with show themselves not only in hotels, but also in public places of entertainment, whereas a few years ago they could not taken for prostitutes. penalty of being boxes ladies and gentlemen sip tea; small teapots and dishes with biscuits and fruit have also become very Moving , pictures . Mandarins and rich in China. in the Hotel des Wagons Lits, it is noted and fork ""opsticks, but knife, spoon and fork, "and are entirely at, their

## Temples.

Notwithstanding the reform of western customs, and the innovation of many temples into schools the turning the Emperor, Mr. Borel still found Chinese of the old temples in which were still performed. ceremonies, ages old, Among the most interesting of thes was the Lama Temple, and one would
like to quote in full his descripti of this weird place, with its atmosphere, rich and ancient yellow silk hangings, dim lights, chanting priests,
and three immense Buddhas gilded altars, "with buddhas sitting on full of ecstasy. " In front of the Buddhas,
he tells, there are five mate art, immense altar-pieces of antiquese "golden, red, green secret lost forever, unique deep, bluen and white, on
all he sees the northern last of all he sees the northern temple hall,
the sanctuary of a wild and furious
god, a horrible vision this a horrible vision. As he leaves the humming gong, vibrating in faint ethereal waves. A wonderful never-to-
be-forgotten tone, " and he sees never
scene and flaming orange, and scene closes amidst the clanging the trange music, the singing of mystice One would like to quiling of prayers. descriptions of the Yellow Temple
the Temple of the Five Parodat the Temple of the Five Pagodas, and the Temple of Heaven, with its towering
pure white altar in the pure white altar in the midst of a
green field, but it must suffice poll to tell a little of what he he says of perhaps Temple of Confucius with its famons
Hall of the Classics, here, everything plain, simple and severe
like the serene wisdom Eastern Sage himself: "I went on great the old sung-trees, and came at last to the temple structure. The roof is to square mosaic, gold and green; the first thing noticeable is a red. The
niche draped in niche draped in imperial yellow cloth, between two pillars at the back of a square
recess in the wall: it is reason of its plainness. In this niche
stands the simple wooden stands the simple wooden soulltablet of
Confucius, lacquered in vermilion confucius, lacquered in vermilion." (The part of the soul of the deceased.) -a group of immense temple classica a large garden, he found the texts of "the wisdom of an emped on stone tables: two hundred stone tables in a palace on beauty." Another interesting voted to the strange and brilliant funeral of the Dowager Empress, that terrible to old traditions and who, wedded holding even the Emperor, her nephews, comer her power, first fought the in-
coming of the West, even to instin the horrible attempt to even instigating all Europeans, then, seeing that chate was in the air and too strong for her turned right-about-face and "introduce alater issue.
For the present we must close with
a few of Mr. Borel's comments on the modernizing of China.

The Modernizing of China. Twc of the greatest influences the unification of language-the in troduction of Mandarin Chinese every where to supplant the many dialects which influences have tended to a grow o of national spirit. The work in rail way building even at the time upon
which he finished his book, in 1909, had been pushed to a remarkable extent. He found that they were workmen even over very rocky and mountainous country, sometimes neces
sitating the boring of tunnels nearly a mile in length, and the building of bridges up to 400 feet in length.
forms were made most memorable reforms were made, despite the Dowager
Empress, by the Emperor Kung Hu, the most sweeping of these the edict by which, with one stroke of the brush, he destroyed the entire ancient system of education, and issued the order to
demolish ancient temples full of idols and demolish ancient temples full of idols and
build schools from the materials - -a most significant change. Another, equalay so, hads been China's strong fight Nor must the fact be passed over,
that in China the spirit of worked chiefly from below upward it is among the masses that the ferment so the foundation which is being laid True, there are still many foolish superstitions in China, much cruelty
conditions progress is hindered by a tremendous
of this writing oonditions th are in a state and misrule
rampant, con
lack of system lack of system
but the fact
the condition age, gigantic
and are being Pondering
Borel asks:
four hundred four hundred
to a loftier c be a mutual in
is good betwee
And, he ask aspect be cha
of $400,000,000$ into the ment be broken up?
how much new the comminglin
both?" both? Yet he fore
not be foreseen come of the
China of to da China of to We
caused by We ignorance and
Chinese Jingo in a paroxysm
the Boxer revo
Mutual safe-guard.
up his wrathfu up his wrathfu understand th
toreign devils Europeans wh China for other and who desi with the Chin
try to penetr the Chinese
sinology must sinology must
West at all uni
Wody of futur body of futur must be found but as relia and students
people, and lan There may b
yet Mr. Borel, mystic looks the dead form
fell after her fell after her
when wisdom nothing; he sa
conclude: "N gotten that w
highest
truth many thousan
race was in its race was in its
law and truth race arises.
decayed will decayed will b pass, the world
by the cursed d ness, and sen
will be pregna
beauty of whic ready initiated. more hold its in
ity, blossoming d in the gre The best of
best of the fu
doors of the real

> Young Mr. H
preacher, but a preacher, b appointed Cha
He desired to is men, and a magic lantern
and incidents. A sailor who was secured to
music between in the Gharden cudgeled his b any pepertoire,
> "Play up, p
> haplain.
> Suddenly an
sailor, and to t
> sailor, and to t
Chaplain and th
the gramophone

OUNDED 1860
of this writing the word comes that conditions throughout the vast area
are in a state of chaos-weak government are in a state in the provinces, anarchy
and misrule and misruue confused finances, general lack of system and respect on ansidering
but the fact remains that, cons. ine condition of China twenty years
the ago, gigantic strides
and are being taken.
Pondering on all these things, Mr Borel asks.
four hundred and thirty millions awaken to a loftier consciousness? Will there
be a mutual interchange of that which be a mutual interchange of that which
is good between the East and the West? is good bet ween the East and the west?
And, he asks, "How will the world's Amped be changed when the thoughts
of $400,000,000$ of Easterns come floating into the mental sphere of Europe and
America? How many prejudices will be broken up? How much new wisdom, be browh new beauty will be born from
how mummingling of what is essential in
the comin the co
both?
Yet he foresess a danger: "It can no be of the disturbed, fermenting China of to.day. Hatred of the foreigner caused by Western aggressions, by the ignorance and excitement of the Young
Chinese Jingoes.
may
culminate Chinese Jingoes. may eum minate
in a paroysm compared with which in a paroxysm compared with, which
the Boxer revolt may seem child's play
Mutual understanding is the only Mafe-puard. The Chinestanding is the only safe-guard. The Chinese must give
up his wrathful distrust, his proud feelin of superiority. He must be taught
understand that not all Westerns are toreign devils,' that there really are Europeans who understand and honor Chinas beauty and wisdom, who - wisit and who desire to come into contact
with the Chinese. The Westerns must with the Chinese. The Westerns must
try to penetrate into the mystery. of try to penetrate into the mystery. of
the Chinese national mind; study of sinology must be encouraged in the
West at all universities, and a superio body of future diplomats and consuls must be found who will go to China, an especially to Peking, not as strangers
but as
reliable, competent scholars and students of the ., Chinese country people, and language.
There may be troublous days between,
yet Mr. Borel, with the vision of the yet Mr. Borel, with the vision of the
mystic looks far past. Speaking of mystic looks far past. Speaking on
the dead formalism into which China fell after her ancient age of aliveness when wisdom meant everything, war
nothing; he says, and with this may we conclude: "Nor ought it to be for-
gotten that what was highest law and
highest truth in many thousand years alao, when the
race was in its bloom, will also become
law and truth when a new and superior law and truth when a new and superio
race arises. What is now old race arises. What is now old and
decayed will be young and new once
more. pass, the world will no longer be possessed by the cursed delusion of egotism, selfish-
ness, and
sensuousness.
Future days ness, and sensuousness. Future days
will be pregnant with
the spiritual beauty, of which the conception is al ready initiated. Then wisdom will once more hold its imperial sway over human-
ity, blossoming forth in beauty ity, blossoming forth in beauty, as it
did in the grey antiquity of China." The best of the past joined to the
best of the future-this will open the doors of the real Golden Era for humanity.

## Smiles.

Young Mr. Hallowell was not much of apreacher, but, much to his own sur-
pirise and everboby else's, he was
appointed Chaplain on a battleship. appointed Chaplain on a battleship.
He desired to amuse as well as instruct
his a magic lantern lecture on Bible scenes a magic lanter
and $i n c i d e n t s . ~$
A sailor who possest a gramophone
was secured to music between the slides. The first picture shown was Adam and Eve cudgeled his brains and ran through
his repertoire, but he could think of any piece exactly appropriate.
Chaplain. up, play up," whispered the
Suddenly an inspiration struck the Chaplain and the delight of the audience "he gramophone squawked out: Tor There is only one girl in this world
men

## THE FARMER'S ADVOCATE.

1851

## Hope's Quiet Hour.

## All Glorious Within

The King's daughter is all glorious
within. Her clothing is of gold. She shall be brought unto the $\operatorname{King}_{\text {Palm }}$ in $45: 13,14$ raiment of needle work.A friend of mine
when she was nursing in the Toront Weneral Hospital many accident cases were brought in whose outer clothing was that did not prove that expensive clothing could bear inspection. Ofter it was found that a woman dressed in
silk, with handsome feathers in thet silk, with handsome feathers in her
hat, had only filthy rags beneath the outer finery. But a true "King's
daughter"-one who has the beautiful
daughter of the King of kings will not be satisfied with any outward appearance
of holiness which is
 enuires truth in the "inward" parts, and only those who are pure "in heart"
are able to see the Vision of His Face. The white robes of the soul are not to be kept only for wearing on Sunday
Holy thoughts and high ideals should not be wrapped in tissue paper and packed away for special occasions.
We know the sun can whiten dis. colored garments; so the stained robes penitence soul-wetted with tears of and clean if they are continually bathed in the light of The Sun of Righteousness.
"Let
Let no earth-stain thy robe of glory
Wrap it around thy bosom undefiled: et spread, it daily in the clear To Heaven's sight, in its own native


Baron Hayashi, the Now Japanese Minister to Peking, with his son and daughter

## 

refinement of character which proves
her to be a "real princess""-may be that ycu are tempted to read a book dressed very simply and plainly on the outside; but her inner garments will be fresh, and as dainty as she can afford.
Is not this a picture of the soul's Is not this a picture of the souls
raiment? Some people are only conraiment?
cerned about their appearance in in the sight of men. They wish to be con-
sidered religious, hut seem to think sidered religious, but seem to think it matters very little what inner garments the soul is wearing in secret
what thoughts are cherished in the temple of the soul.
If a refined woman shrinks from the
vulgarity of wearing soiled and vulgarity of wearing soiled and ragged
underclothing, concealed by showy finery, surely one who claims to be a the purity of your thoughts in the
slightest degree, put it down instantly, as you value the whiteness of your soul. Remember how easily a white it is to get rid of the stain how har man and many a woman has repented bitterly the reading of an impure book in early youth,-but the images of evil, are very hard to soul by the book, when least wanted, though repelled again and again.
the way through-are the God-given

Royal Bridegroom to His loved bride. They should be kept with jealous care, as a woman keeps the bridal dress
in which she desires to stand before
God's altar. Young people make a sad mistake
when they recklessly fling away their greatest treasure-their white purity of soul. They are heaping up misery
for themselves, for joy can never walk for themselves, for joy can never walk who-like the Bridegroom Himselfare righteousness and hate iniquity are, like Him, anointed with the oil of
gladness above their fellows. Their garments are fragrant with "myrrh, each day out of the King's own wardrobe; even "out of the ivory palace whereby they have made thee glad."
Our Lord was very those who were scorned by the world as "sinners," those whose sins were easily seen by everybody. But how fiercely He denounced the hypocrites!
He compared the Pharisees to sepulchres He compared the Pharisees to sepulchres full of loathsome decay within. They, They appeared to be very religious,
but He sternly warned them that their but He sternly warned them that the They drew near Him with the lips,
but their hearts were seeking the
praise of men. Can we say with truth praise of men. Can we say with truth while our lips are uttering His praises?
We should he horrified at the ldea of anyone offering bad money on His altar,
yet we are hardly conscius yet we are hardly conscious of having
sinned when we offer Him false worshin We may well ask God to let His pitying eye rest upon our best deeds
and finest words. Too often they are intended to win for us the praise virtues-or seeming virtues-as we as for our sins. God does not need
our gifts-the riches of all the universe are His-but it is our great loss whe
we offer Him tarnished gold which He cannot accept. Have we never spoiled our service by seeking glory for ous selves? than the gifts poured by the greater than the gifts poured by the rich int
the treasury-it was her all. careful how we claim to have given ou "mite," lest it be really only a mit copper on the outside, but it was "a
glorious withini." No wonder our Lor
was glad at heart as He was glad at heart as He. watched he
place her gqlden offering in the hand o God. No one is too poor to o
the best gold. Many earthy at all; they are heavily weighted wit selfish ambition, and have no wings o保

It matters little what I drop 'Tis God's acceptance that doth make Some day we shall be brought unto the King. Will it the be found that
we are all glorious. within, and that we are all glorious within, and tha
our clothing is of wrought gold? Sur clothing is of wrought goldr
with use, but will only grow shabby lovely as the fires of sorrow and suffer ing burn the dross away. The Great which is purifying His fine gold. Even may feel safe in His hands.
The King's daughter
The King's daughter must not only be radiant and shining within-as the
temple was glorious with gold and jewels, placed there for God slone but "she shall be brought unto the This outer robe is not a machine-mad neither is it the kind of garment turned grows slowly, and fits the soul. Characgrows slowly, and fits the soul. Charac
ter is one of the things which cannot be ter is on
The clothing of character which the
soul wears is "needle-work"-it soul wears is "needle-work"-it takes many years to put in all the stitches of character is being woven-by hand Each thought, word and act helps righteousness is provided brial robe or righteousness is provided by the Bride-
groom-that is the inner purity which we must keep sacredly as His gift of love. But the outer robe must be
embroidered with many stitches of our embroidered with many stitches of our own needle-work. We are invited to
work under and with Him. What kind of a court-robe are we making, as these
years of waiting for the Bridegroom Slip swiftly by? with Gor, who is far more patien this "raiment of needle-work" than any mother who is teaching her little chld to sew. He is ready to help with
every stirch-if we seek His assistance and says: "For I, the Lord thy God will hold thy right hand, saying unto
thee, fear not, I will help the thee, fear not, I will help thee."
If we try to work alone we shall spoil instead of beautify our charac ter. Why should we try to do the impossible and climb to heaven by our
own feeble efforts? Even our aviators, own feeble efforts? Even our aviators,
though they fly far above our heads, can never reach the nearest star. But why should we try to clothe ourselves with the garments of righteousness to each of His sons and daughters? "Isaiah wrote:
"I will greatly rejoice in the Lord,
my soul shall be joyful in my God, my soul shall be joyful in my God, ments of salvation, He whath the garme with the robe of righteousness." Daughters of the King have a right which was written by Bishop Brent, the lily-white of maidenhood me in me daily with of maidenhood, refresh and bathe me in the sunshinie of Thy favor, that I may shed abroad the
fragrance of a blameless life, through Jesus Christ our Lord."."

For the Needy

A gift of $\$ 2.00$ from "C. M." (which for the Sunday dinner of two moe families-where sickness has made poo difficult. The $\$ 2.00$ sent by "Elizabeth warm underclothing for a delicate on whose father has heen for many month cripple who, "the $\$ 2.00$ for the blind cripple who, "though sorely tried, can
count her many blessings," was ceived with the greatest delight-and sent out at once to give help to some one in greater need of it. My helpless supplied (she can't stir froms are fully but it has been a great luxury to have two dollars to give away. She sends a message of deepest gratitude to her
unknown friend for giving her this great delight of helping someone else. She is very near the "land of far distances," and is looking forward joyously to the expected angel of life-
whom we usually call the "death-angel." Her face grows more and more transparent, and shines as if the glory of
her radiant soul were visible through her radiant soul were
the curtain of the flesh. I have been asked to convey to the
kind Advocate readers very hearty
thanks for their many gifts.

Fashions Dept.

## How to Order Pattorn




 then. If two numbers appear for Address Fashion cents must be , sent Farmer's Advocate and Home Mara
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Age (if child or misses' pattern)
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Seam Allowance) Cirls Coat, to 14 vears.


8854 (With Basting Line and Added



8794 (With Basting Line and Added Seam
Allowance) Child's Dress, 4, 6 and 8 years.


## The Ingle Nook.

##   

Dear Ingle Nook Friend,
no
idea
what
 You see it it in't ouito out every weak
peoole whom



 to turn up something interestring (useral
Iy $I$ jot down in
in


 times thes sappen apprent, and sume
cidently
For reanstance the other day t

was reaing a book on a subiect that | was not altogether a a surface |
| :--- |
| and, presently, found thater | and presently, found that I was haping

a ane of my own to keep $m y$ mind
and down to it at all. While my erea


 and over and over again found that
I Wegan off on another jount. thenden wher wher 1 neded that of Iresh air, or some exercise, or together., seemed so hard to "k was normal, so came to the conclusion that
there was nothing in the world the mat er but a firm buckling down of will
 once told me that often, when reading
he found himself oblived to determination to concentrate at in his For a while $I$ three minutes. reached for my note-boke ande' syribbled day I chanced on an item investigator among the insane whid
 a smile, , reached for my note books again, and , underined the word "Con-
centration: "The arrym whiter was that normal people shoull tion with all the weapons posesibe
not becuse of hy fear of finsity
not to travel just as far from mental aberra tion as possible
Wook, there stood the seo subject, under lined, and I picked up a pencil and poised it for a moment wondering
how I should begin. You know, as in everything else, the beginning, an
ending of writing is you are in full swing you go along by sheer impetus, but happy you are i you know just how to make the start
and bring up the finish. To resume,- $-a s$ and bring up the finish. To resume,-as of paper fell down from somewhere on my desk, disturbed from its resting
place, probably, by a breeze from the open window. It was a torn-off scrap, not a syllable to indicate the writer or the magazine in which it had been published. I took it up with the intention of throwing it in the waste-
basket and glanced at it casually, then read it through almost with a ""Thil. Here is what I read ing. There is nothing so destructive to strong character as giving way to wandering, purposeless thinking. Do you realize that thought force is the
strongest force in the universe? Think, strongest force in the universe? Think,
then, of the force that is being allowed to dribble away in utter waste by car
less, aimless wandering thoughts. less, aimless wandering
"Don't think aimlessly.
thoughts.
Pull yourself up and be determined to think a philosophical mind and cannot fix your
thoughts independently on some inthoughts independent or on somel problem,
tellectual, religious or ethical


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<゙T. EATON COmmio TORONTO

speare or the works of any other of the splendid possibility, -growing
great mind.
 thought, think of it, while in your
carriage, in the train, in the street carriage, in the train, in the street
car. Don't allow yourself to wander off into useless day-dreams-day-dreams are good if they are dreamed to some purpose-build castles in the air if you
will castles, blown away by the first puff of
wind. "Build them on sure foundations; build them with strong materials
build them "Think of one thing at Don't scatter your mental forces. Fime your mind intently on the duty in
hand, the subject you have chosen, hand, the subject you have chosen,
and for the time being shut out all others. "Cultivate the highest and best, and you will soon realize a a life best, that
is never lonely, never alo, is never lonely, never alone.
happen curiously and sometimes Here was my little sermon all preached dropped into my hands like the bread
which which, ine the beautiful old poem, the
ravens brought to Eliiah! I have given it to you, and I hope you will, with me, say a hello and a
thank you to the unknown writer.

A few evenings ago we, here in o a very brilliant priviege of listening New Movement in Canadian Poetry." The lecturer took as the pivot for his
talk the point of view that whereas in the earliet Canadian poets the tendency of the ch.ldhood of a nation to glorify
it C s. external things is manifest, the its external things is manitest, the
Canadian poets of to-day, spokesmen of the coming maturity of our race, are singing rather of psychological
things. Their work is subjective rather versal, less local, than are more uniof yesterday. the poets-Lampman, for instance, and days-were more purely their youthful They extolled-a mo and beautifully, toots. our plains and mountains, our rivers
and lakes, our mists, and rains, and hot surny days, our deep, dark forests, and our song is, rather, of the human today
the soul of love and faith and inspiration.
Incidentally, the lecturer spoke Incidentally, the lecturer spoke in terms
of highest praise of the work of one of these modern poets, Dr. Albert Watson of Thoronto Think about it you will say that the lecturer was right. Every nation, as every person,
passes through a child stage, and its poets put its thought into song. Be By
and by comes a time when it begins to "put away childish things." " Indeed, that seems to be the great work for
the future-putting away child dis $t$ bin for even yet no nation in all the earth, has come to full maturity, -althourth
all are on the way. As yet we are held all are on the way. Ast yet we are held
by the glitter of toys. We are materialisby the glitter of toys. We are materialis-
tic. We think too much of the things tic. We think too much of the things
that money can buy, to the exclusion of
other things the other things that are really more in-
teresting and more worth while. Per
 grow up, keeping a few of the toys,
it may be, but putting them in their
proer proper place.
Come to think of it-are we ourselves ever wholly grown upe we wo por-
and inches make us really feet And have make us really grown up?
hever met people who Alved long lives naver met people who
lit all, even gever grew up I suppose a it ittle bit?
always something well for us to keep
at and always something of childhood-there
are some traits about little children are strangely fine and cosmilren that
absolute candour for absolute candour, for instance, and their
truthfulness. un, to, and. But we need to grow
as we live. Perhaps there in as long
as the year in which we might not, with profit to ourselves, siloulh off, with
undesirable trait and fill its place with
something trite something better. One of place with
One the most
hopeful things I have ever hard casual remark by ba ever hheard was a
of Pedagogy.-Yes, 1 woull trul
octll of Pedagogy--Yes, 1 will tell you his
name, for hundreds of you, ex-students
of the be interestend, ..it was Dr. Raod, will
your good old friend. He said: "People,
your should develop mentally, until they are
seventy years of age at least, If they
don't it's their own fealt," They

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Novzuber 9, 1916
The sticks with a bunch of grounds on their backs are bearers of bad news
or they say bad things about your.
 betwen is $a$ journey by rail, if there
are no openings it is is a ourney by water. A large ring, closed, means an offer of marriage to an unmarried woman tumate undertaking. To a man success
in business
A small ring means an invitation. Dust-ike grounds bunched together in the bottom means a sum of money.
A triangle, anchor, or horse shoe signifes A traingle, anchor, or horse shoe signiifes
god luck.
A half moon or star means a paying inimestrent. A pyramid is extremely
lucky. A square or oblong means new land. Flowers, at pesent, depending on the shape, or the present may be fowers,
Leaves sickness or death. Fruit of any kind, health.

Christmas Gifts-Hints for Cleaning. Dear Junia,-As it is getting on towards if you could help me again. Would you please mention some dainty but
 mas, and how they are made? Thanking you very muct
send a few hints:
and
To clean gold chains, let the article lie in ${ }^{\text {an }}$ solution of
until dirt is remened
caustic
artash To clean gite frames take chloride of paltern or sota ones ane whioride eggss two or," mix thoroughly and apply
with
a soft brush after the dust has ben removed from the frame Tosh painted surfaces with milk. carpet, cover it with dry sallt, and it may be swept $u$ ut without, learing
smears. Wishing the
thyocate every smears. Wishing the Advocate every
success. success.
Huron
Co., Ont.

Brōwnie.
Just todday a dainty woman showed
mee samples of

 with a tiny pink rose-bid at the hearts;
at the back was a tiny at the back was a tiny safety-pin
to pin the bow to the corset to pin the bow to the corset cover.
One could give three of these, in different colors, if one chose. The other gift tiny cushion, also to be worn like a tiny cushion, also to be worn beneath handkerchiefs. She had blaced among box with six of these. . . Tiny, hand-made doilies, centerpieces, Gne "safe;" also plain, very are always in popular sizes, edged with very fine narrow lace. Bed-socks are very acyou seen the patriotic knitting have you seen the patriotic knitting needle colors) covering a strip of garter elastic, with a cartridge at each end. The
cartridges are to be slipped over the ends of the needles to keep them from punching through the knitting-bag when Another useful, but very inexpensive with coarse cotto "hammock" crocheted each end. It is really a bone ring at washing one's back. The wash-rag long and 10 wide with 15 inches extra. . . Oidinary square washlags made of Turkish towelling, with the edge are also coarse cotton around So are bath-towels with ul and pretty. ace or insertion at the ends, and small broidered or with flower or initial em-
Plants in cross-stitch. Plants in pots make lovely Christ-home-made candy, each raffia baskets of in fringed tissue paper. And you never can make a mistake in giving ribbon cases filled with useful of all kinds, pins with colored needles heads, rolls of white tape, etc. For children, suggestions are: boxes
of water colors; scrap books; dolls of all and Kewpies, ing home-made Brownies of colored crayóns with small boxes board to use them on; puzzle maps and pictures; pretty bags of patches and thimble. Scissors for little children

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## $8(8 x+5=5$



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 Hor sur为










Hovember 9, 1916
but at all other points the Roumanians
hive held their own at some points have dreld their own the Austro- perman
even driving the frontier. forces from the frontier. Brit A marked
renewal of British activity is reported from the Valley of the Struma in Grecian
Macedonia; also gains have been made by the French and Italians, at the other
end of the long Balkan line. The Serbs, meanwhile, are fighting. hard,
and have inflicted heavy losses hard, and have inficted heavy osses on the
Bulgars, but have not yet reached their
The BeaverGircle
An Opening of the Season Letter.
$\begin{aligned} & \text { Dear Beavers.-During the summer } \\ & \text { we have all been rather resting on }\end{aligned}$ we have all been rather resting on
our oarsh haven't we? I heve not
been pushing you to doo much for the Beaver Circle, for I knew how
much you wanted to play out of doors, and besides, I supposed that many of
pou would have plenty of work to do,
picking berries and gathering picking berries and gathering up apples,
and helping with the potatoes and and helping witer is coming on. You
turnips.
But now wint
rill be indoors more and in the mill be indoors more, and in the long
evenings you will likely find time to
do something for the Beaver Circle, do something for the Beaver Circle,
ifter sthool lessons are done. to be the best yet, and it will be, if you
are all as busy as beavers. the two competitions on ""Our School"
for the Junior Beavers, and the limerick competition for all, the Beavers, are
coming along nicely. Don't forget that
all the letters must be in by November 15th . Busy as Beavers!"-how would that
do for our motto? do for our motto? And, how would
it be if we start the winter's work by a
story about the busy little beavers story about the busy little beevers
of the deep woods and far-away streams?
It is taken from Mr. Enos A. Mills' yery interesting book. "Ino A. Mills'
World." Mr Beaver nearly. all o or his lilise, in the kow, spent
he knew a great deal of our little feathere and furry brothers. of our little feathered
Here is what he told about one beat "One autumn, when following the Lewis
and Clark trail with a and Clark trail with a pack-horse in
western Montana, I made camp one
evening with a trapper who gave me a young beaver. He was about one month
old and ate twe as though he had long eaten them.
I named him 'Diver', and in a short time he was as chummy as a young
puppy. Of an evening he played about
the camp and often swa the camp and often swam in the near-
by water. At times he played at dam
building and freouently disppay building and frequently displayed his
accomplishment of felling wonderful trees that were about the size of a lead pencil.
He never failed to come promptly when I whistled for him. At night he crouched
near my camp, usually packing himself under the edge of the canvas on which
I spread my bedding. Atop the pack on the horse's back he traveled, -a ride
which he evidently enjoyed. He was never in a hurry to be taken off, and at
moving time he was always waiting eagerly to be lifted on. As soon as he noticed me arranging the pack, he for him, he rose up, extending his hands a whining sort of muttering, pleaded
to be lifted at once to his seat on the pack. 'He had a bad fright one evening. About one hour before sundown we had encamped as usual alongside a stream.
He entered the water and after swimming about for a time, taking a dozen or so
merry dives, he crossed to the opposite merry dives, he crossed to the opposite
side. In plain view, only fifty feet roots of the Oregon grape and then stopped leisurely to eat them. While dash for him from behind a boulder.
Diver dodged, and the coyote missed. Giving a wail like a frightened child,
my youngster rolled into the stream and dived. Presently he scrambled out to crawl under my coat tail behind "The nearest beaver pond was a than five minutes had elapsed from the time of Diver's cry when two beavers
appeared, swimming low and cautiously

THE FARMER'S ADVOCATE.
in the stream before me. A minute
later another came in sight from downstream, All caircled about, swimming
cautiously with cautiously with headd held dow in the
water. One scented the
place where the coyote had attacked Diver, and
waddled out and made a
sniffing examination. Another came ashore at at
the spot where Diver came out to me. Apparently his eyes told him I was
a part of the log, but his nose proclaimed
danger danger. After three or four hesitating
and ineffectual attempts to retreat, he plucked up courage and rose to to full
height on hind legs and tail to stare eagerly at me. With head well up and
fore paws drooping, he held the gaze
for several secods for several seconds and then gave a
low whistle.
"At this Diver came forth "At this Diver came forth from be-
hind my coat to see what was going on.
The old one started forward to The old one started forward to meet whirled and maving a a good look at mee
the water, whacking the surface into with his tail as he disappeared. Instantly there followed two or more splashes and as though a beaver rescue party were
beating a retreat. "At the end of my outing Diver beon the bank of the Snake river. He He
followed the childreni about and romped
$\qquad$
Little Bits of Fun. "The class was being instructed on the "If I stand on my head, the blood will
run down into my head. Do you under-
stand?"
$\qquad$ is it that the blood don't run into my
feet when I stand upon them?"
There was a pause for a few seconds, when one of the pupils said:
"I geet guess because your feet ain't
empty."
The title of the picture was 'The
Truth-tellers,' and the children were asked to write a composition thereon.
This was little 'One day mother left me in the house
all alone. Pretty soon. Tommy came along and said let's go swimming. So I went. When mother came back
she said what makes your hair so wet I said mother I cannot tell a lie I went
swimming. And she said Johnnie I'm
glad you took a bath. glad you took a bath.'-Life.

Senior Beavers' Letter Box. Dear Puck and Beavers, -I received
the book to-day. Thanks very much. I am going to begin reading it at once quite a few pets. Some of them are: and a chicken. I wish some of the
Beavers would write to me. We have taken the Farmer's Advocate as long as "Ivanh. Some are "The Coral Island," "The Lady of the Lake," and several others. Well as my letter
is getting long I will close. Yourssincerely
JANET GRIEVE R. R. No. 5, Seaforth, Ont.

Juwior Beavers' Letter Box. Dear Puck and Beavers.-My father has taken the Farmer's Advocate ever
since he started farming and I like to
read the Beavers' letters, so I am going read the Beavers letters, so I am going
to write one. I live on a farm and have
just about five minutes walk to school just about five minutes walk to school.
We have the best teacher in Canada
and all the scholars call him "Teddy." He has taught our school for fifteen
years. I have two brothers going to school and a twin brother and sister
two years old. We have three Collie pups and we call them "Rag", "Tag"
and "Bobtail." Hoping to see this letter in print,
Willis Richardson. Age 7 years.
This is a splendid letter for a wee lad of 7 years,-all the "stops" quite right
and the writing very neat. Come again,
Willis.


The responses to the special prices on
CHAPMANENGINES
as quoted in the issue of the 26th began to reach our factory the morning We can make no promises on these engines except We can make no promises on these engines except that if we have any of
$13 / 4$
5 H. P. P. Engine for............... $\$ 60.00$
$\begin{array}{llll}5 & \text { H. P. Engine for............... } & 180.00 \\ 7 & \text { H. P. Engine for............... } 250.00\end{array}$ If they are sold out your order will be cancelled and returned to you. CHAPMAN ENGINE \& MFG. CO., LIMITED DUNDAS, ONT.

The Windrow
Fifty-three thousand women are now employed on men's work, other than
munitions, in France.
Miss Graynella Packer of Jacksonville,
Florida, was the first woman in the Florida, was the first woman in the
world to serve as a commercial wireless operator. She has served on the Clyde
liner Mohawk, and now wishes to a position on a big ocean line. Many
women are now qualifying for the work.
OUR NEW SERIAL STORY
Serial Rights Secured from the Bobbe-Merrill Publiohing Company.
The Brown Mouse

CHAPTER III.
WHAT IS A BROWN MOUSR?
Immediately upon the accidental election of Jim Irwin to the position
of teacher of the Woodruff school, he developed habits somewhat like a ghost's or a bandit's. That is, he walked of
night and on rainy days. On fine days, he worked in Colonel
Woodruff's fields as of yore. Had he been appointed to a position attached
to a salary of fifty thousand dollars a year, he might have spent six months
on a preliminary vacation in learning something about his new-duties. But
Jim's salary was to be three hundred and sixty dollars for nine months' work
in the Woodruff school, and he was to find himself-and his mother. There-
fore, he had to indulge in his loose habits
of night walking and roaming about
after hours only, or on holidays and in
foul weather. foul weather.
The Simms family, being from the
mountings of Tennessee, wre mountings of Tennessee, were rather
startled one night, when Jim Irwin, homely, stooped and errandless, silently
appeared in their family circle about
the front door. They had lived. where the front door. They had lived where the big road before one passed through
the palin's and up to the house. Other-
wise, how was one to know whether wise, how was one to know whether
the visitor was friend or foe?
From force of habit, Old Man Simms From force of habit, Old Man Simms
started for his gun-rack at Jim's ap-
pearance, but the Lincolnian smile pearance, but the Lincolnian smile
and the low, slow speech, so much like
his own in some respects, ended that his own in some respects, ended that
part of the matter. Besides, Old Man
Simms remembered that none of the Hobdays, whose hostilities somewhat
stood in the way of the return of the
Simmses to their native hills could

"I cannot get along very well without The Farmer's Advocate. It is the best advocate I have."

That is the opinion of one of our subscribers, Mr.W.G. Frederick Walkerville, Ont.
WHAT'S YOURS?
(Tell us in a few words)
 was quite a festival. Jim Irwin was the
least conspicuous person in the gathering
but the colonel, who was a seasone
politician, observed that the farm-han politician, observed that the farm-hand
had become a fisher of men, and was angling for the souls of these boys and their interest in the school. Jim was careful not to flush the covey, but ever boy received from the next win ter's
teacher some confidential hint as to teacher some confidential hint as to
plans, and some suggestion that was relying on the aid and comfort of that particular boy. Newt Bronson,
especially, was leaned on especially, was leaned on as a strong
staff and a very present help in time
of trouble. As of trouble. As for Raymond in timme,
it was clearly best to leave him it was clearly best to leave him alone.
All this talk of corn selection and related things was new to him, and he drank it in thirstily. He had an inestimable
advantage over Newt in that he was starved, while Newt was surfeited with "advantages" for which he had no
use. "Jennie," said Colonel Woodruff,
after the party had broken un "I'n alter the party had broken up, "I'm
losing the best hand I ever had, and
I've been
"Imm
Jennie. "He he's leaving you," said except work in the field for wages." as "I've had no idea he could make good as a teacher-and what is there in
if he does?" rejoined Jennie. "And he doesn't?" "The school board's against one thing," replied the colonel. "They'll the laughing stock of the counce. They'ry
hiring him by mista hiring him by mistake, and they're
irritated. But after seeing him form to-night, I wonder if he can' make good,"
"If he could feel like anything but an
underling underling, he'd succeed,", said Jennie
colonel, whose heredity,"
stated the colonel, whose live-stock, operations were
based on heredity. "the based on heredity. "Jim's a scrub,
I suppose; but he acts as if he might
turn out to be arown Jennie- "a Brown mean, pa,", scoffed "A fellow in Edinburgh," sait the mouse with the common white mouse.
Jim's pedling father was a waltzing mouse, no good except to jump from
one spot to another for no good reason.
Jim's mother is an Jim's mother is an albino of a woman,
with all the color washed out in one way
or another. Jim ought to be a mongrel and I've always considered him ongrel,
But the Edinburgh fellow every once colored, waltzing ant of his variously-
a brown mouse. It wasn't a combrids,
house mouse
unlike any he had ever seen. It ran
away, and bit and gnawed, and raised
hob. It was what we breeders hob. It was what we breeders call
a Mendelian segregation of genetic
factors factors that had been in the waltzers
and albinos all the time their original
wild ancestor wild ancestor of the woods and original
If Jim ths.

The Omegá Milking Machine

has been installed in the private dairy of
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you are interested in getting the highest market
prices or your furs
quotations ant ing aet ing the highest tuotations and the very poorest re returnest
Bein manufacturers as well as exporters, our line, we surely in the satisfy youn. C. H. ROGERS Desk 10 Walkerton, Ont., Can. -THE VETERINARIAN-

"Maple Leaf" Brand
Write to-day for lowest prices.
A New Song Hit 2very $=5$ MORRIS MANLEY, 77 Victoria St., Toronto In a certa:n small English village
there were two butchers living in the same street. One placarded his saus-
ages at 1s. a pound and the rival promptly placed 8d. on his card. No. 1
then placed a not:ce in his window, saying that sausages under 1 s could
not be guaranteed. No. 2's response
to this was the to this was the announcement, "I
have supplied sausages to the king." have supplied sausages to the king.
In the opposite window the following
morning appeared morning appeared an extra large car'",
bearing the words, "God Save the King."
 advancement in their stuciece of all the the
children, and what they liked to read. He talked their favorite amusements. -not about the school, to any extent, but on the weather, the horses, the
automobiles the silo-filling machinery automobiles, the silo-filling machinery
and the profts of farming. I suppose that no person who has Uudertakene the manapemerson of whe yhas
people of any school in all the history of education, ever did so much work of ethis sort betore his school opened.
Really, though not see how such doings related to school full blast in the homes of the district and the minds of many pupils, weeks and
weeks before that day them to order on the Monday specified in his contract as the first day of school. ing, voiced the sentiments of the openpeople when he condemned the older as disorderly. To be sure, there were
more pupils enrolled than had ever entered on a first day in the whole history commodate them all wut hard to ac criticism was leveled against the free-and-easy air of the children. Most of them had brought seed corn, and a good-sized corn show was on view. merits of the various entries Instead of a language lesson from the text-book, Jim had given them an exercise based
on an examination of the on an examination of the ears of corn. chaps had been worked of the little and kernels of corn. Oneclassin arithmetic calculated the percentage of inferior grains in the middle of the the fill-sized
 orf freedom. The wiife is prond freedom from mending and the ing, and the eternal bewing on of all
Shirtle. good dealers sell Deacon
Deacon Shirt Company belleville. camada The plenfect Piano for CSo Tlome. Wriew scanes WhilliliMS PIANO Oshawa, Ontario.

## 



1 ,

All the time Jim Irwine eal uncouth, clad his Sunday suit and trying to hide behin his Lincolnian smile the fact that he embarrassed, passed among them, much them enrolled, setting them, gettin, wasting much time and laboring like a heavyladen barge in a seany. "." said Bonne tramp in the schoolroom Bronsoarin' his best, I' guess," said Bronson.
Bonalf the kids call him 'Jim,' " said "That's all right with me," replied "The room was as noisy as a caucus, was Bonner's next indictment, "an the flure was all over corn like a hog " "Oh! II don't suppose he can get away "but that boy of mine is as tickled as a colt with the whole thing. Says he's goin' reg'lar this winter. order,", said Bonner. ""He lets Newt do as he dam pleases. anything but deviltry," protested do do "Oh, 1 suppose Jim'll fall down, and we'll have to fre him-but I wish we could git agood teacher that would
git hold of Newt the way he seems to!"


McCormick's Jersey Cream Sodas are so crackling crisp, so light, and so easily digested that they can be eaten at times when heavier coarser foods, perhaps, would cause discomfort.
Sold fresh everywhere in different sized packages. Ask your grocer. quarter pounds. The increase has been af the the good from the point of view The great increase in the consumption of British planters in India. Formerly all tea came from China. Fortunately, tea shrub it a native of Assam, one of
the Indian started planting in in Assam. All the the
and processes are performed
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aut from India are pure and free from tall
contaminating admixture. healthy, well-matured plants they contain
all the essential elements in rich all the essential elements in rich







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Questions and Answers.

 and must be acompanied by the full name anc
addras o the the writer.
3dill

 Veterinary.

Crippled Lambs.
My lambs appear to have rheumatism, caused by the wet weather last spring. They have difficulty in rising, and
when walking take very short steps when walking take very short steps,
and appear weak in their hind legs. One has died.
Ans.-You are probably right in
your diagnosis your diagnosis. Keep them in a com-
fortable, thoroughly dry place. Feed Tortable, thoroughly dry plàce. Feed
on clover hay and a little oats and raw' roots Give each 2 grains of salicylic acid three times daily. Bathe
the joints of the hind legs well three the joints of the hind legs well three
times daily with hot water, and times darly with hot water, and after
bathing rub well with hot, camphorated
oil.

## Gossip.

The International at Chicago. Visitors to the International Live Stock Exposition, Chicago, Decembe
2 to 9 , will be given, so to short course in animal huseandek a
and recelve an opportunity to learn and receive an opportunity to learn
which types are most profitable and which types are most profitable and
which best meet the demands which best meet the demands
market. The Exposition will this
ent enlarge upon its educational work,
and an effort will be made to ofer and an effort will be made to offer
much additional helpful information, much additional. helpful information,
in new and original form, to all who
ated atten the Show: Apart from the
information information one can gather at the
time, it will be a real treat to see the time, it will be a real treat to see the
worderful line-ups of horses :and cattle
which will which will come cop from arses sand cattle
North American Cont ine the rom many State Fairs and exhibitions
in Canada will then meet for the final test of the season. It will surely be
worth seeing. The she raiser of swine will also have an opportunity to see the best. This event
cannot aail to attract large numbers.

The Wife's Share Editor "The Farmier Advocate The law of partnership \%has it, that
when two or more persons combin then two or more persons combin
thess resource ${ }^{\text {in }}$, developing a a busi
nessosition, the in ness proposition, the ing a busi-
each , is to be guarded against
l. hog" policy of the party of the an first
or the second part, as the case may be
A sum A sum-up of the matter is fore fair be in dividing the matorits. Anyone will admit that the rirghts An ingone wil
must be respected. We individual must be respected. We are living in
civilized country and in modern times
Own Our customs demand it.
All this suggests another situation
Does the Does the farmer, as a business man
consider his wife as firm. So far as the productive in the
concerned concerned there are few who do not masculine associates. But how about
their share in the dividends? their share in the dividends? Are
they consulted in matters of ment? Are they matters of manage-
basis befitting therking on a fair basis befitting the genuine partner?
Every once in a while, some Every once in a while , ome embodi-
ment of the old "hor ord and master
spirit" bobs up and ord and sprit bobs up and starts in to master
scripture. Usually Paul is the quote
sal authority. Once upon a time, the
Apostle said, "Wives sub Apostle said, "Wives submit yourselves
to your own husbands
the ye the the ,husband is the head of the wife,
etct," This looks like a clincher, bu later on he made an important ament, but
ment: "HHusbands, love your wives."
As the wives garded as vites of that period were re
sermon on equat than slaves, sermon on equal tights for wormen
would not have been exactly popular.
His His appended dictum, however, if
properly lived up to, would give the
bout Many a man has been pulled out of a

This Engine Does Farm Work
 month and find myself". Wouldn't you take him quick ? $\quad$ sawing, etc. for $\$ 6$ per

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November 9, 1616
the good, hard common sense of his
better half. The fact that a man may recognize that his wife has the ability to do something of the sort does not in any respect he loves to feed his yanity, let him add another feather
to his cap, for he has earned it. To to his cap, for he has earned in. To
recognize talent and utlize it in compelling siuccess is a desirable trait.
The millionaire in oil and steel has done it, so has many a prime minister in
forming his, official family. After wall forming his, on caicter than one. Why not make it a fundamental, principle in farm management? oh, says Jones, "but my wite gets a stated almaunt" cart intentions, no doubt, but no
portner will stand for it. It smacks partner will stand forvi. It smacks
of the way that servants are paid. Partners on an equal footing should judgment not to ask any questions
about small amounts. The pocket book should always be opened to either. make an entry to that effect in the cash
baok. In case of large sums talk it mook. In case of large sums talk it over as partners should. Important
particulars call for consultation. That's my platform.
of course, there will be kickers. But did it ever occur to these gentry to figure $\begin{aligned} & \text { amount to if he attempted to work } \\ & \text { amount }\end{aligned}$ amount tors and attend to his own home? I.et such a one try it. Get generous for once, and persuade your
wife to take that long promised holiday for say a month. Then get busy and note the results. If mistake not, Robinson Crusoe marooned on his desert
island will seem like island will seem like a picnic compared
to your troubles. The demonstration to will probably be an eye-opener, however. But you say too free a hand will
make her extravagant. Will she be more of a spendthrift than yourself? She has orobably heard you preaching
about hard times simultaneously with the purchase of various labor-saving devices.
idea
Naturally, she se gets an
you are not so poverty idea that you are not so poverty
stricken as you would have her believe, and accordingly begins a campaign for a few needed appliances that will
lighten her work If there lighten her work. If there is really a
tendency to overstep there is likewise a remedy, but for goodness sake see that the drawing-in process is
extended to your end of the business extended to your end of the business
as well as to hers. In cases of this as
nature the man is usually to blame. ne hangs on to the secret of his financial status with so determined a grip that the wife is often in total ignorance of his reale she will know the true state of affairs-just what you are making and what she can afford to spend. There is no better check to extravazance. Some 'farmers' wives have what money they can make out of the butter and chickens side-show of their own in order to secure "pin money." The chickens and butter are all right; they can, per-
haps haps, do this work better than anyone
else, and so help along but it is not an equal partnership. All side-show proceeds ought to go into the general fund, and the necessary cash drawn to pile up large bank accounts, while their wives rather than humble themselves to ask for what was really theirs
would would glady add this butter-andegg combination to
over-crowded duties.
Admittance to a full partnership is a necessity if the wife is to do her best
work in her own special work dishes, sweeping and cooking three hundred and sixty-five days a year is the essence of monotony. It is a
domestic treadmill, the ceaseless grind of which, slowly but surely wears
away the strongest nature With the farmer, himself, there are constant changes. He plows and sows and reaps.
His His work cakes him here and there
about the farm, to town, the blacksmith shop, the mill or the store. He sees new faces and new scenery. In
variety be otand variety be obtains rest and recreation.
Were the wife a partner ior reality the varied interests of farm management would be transmitted into her life. Consultations on business matters
would serve as a tonic and result
physinter physically, mentally and financially to
the benefit of the firm. Acricoia,


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DDESDALE SALE Tuegday, Dec. 5 th. 50 Hfsheclass 50
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Union Stock Yards
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 Sheep\& Swine Sales $\begin{gathered}\text { Kansas. City Mo. } \\ \begin{array}{c}\text { Tuesday } \\ \text { and } \\ \text { Whednesda }\end{array} \\ \text { huustay }\end{gathered}$

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 ALLOWAY LODGE STOCK FARM Angus,Southdowns, Gollies

Robt.McEwen, R.R.4,London,Ont.



THE FARMER'S ADVOCATE.
1865

or lame in the barn, "eating theirheads off"? One means
-develops a Spavin, Curb, Splint, Ringbone-dou't risk losing him through neglect-don't run just as great a

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Mr. David Yerex, Sonya Ont., writes-"" have used your Spavin Cure fo
fifteen years, and know it to be a good cure". De ready for emergencies, keep
 enosburg falls, vermont, u.s.a.
The chief characteristic of a sire is firmly
implanted in all our bulls, Some of the best
herds in America to-day are headed by bulls
bred by us. We have them out of champions,
by champions, and champions. Come to us to
get a sire if you want to pick from the best in
the country to-day. We have them from two-
hundred dollars up.

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| :---: |
| of 1915 , sold June 7,1916, for | Shorthorn Bulls---Shorthorn• Females a herd that you will like You will like our females; you will like the breeding and you will like the sires that have been used on

these in the past year. Right Sort (Imp.), Bandsman (Imp.). Newton Friar (Imp.), Lytton Selection, Escana Champion,--all these bulls have been used in the past year. We can show you some young
ulls by these sires that are show calves. Come and see them or let us'send you particulars. We can also spare some females bred to them; heifers, four and six-year-old cows, y as well as cows with calves
at foot.
WM. GHENT \& SONS, FREEMAN P.O., ONT. Farm, 300 yds. from Burlington Jct., G.T.R.

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One young bull, 18 months old, dam qualified in R.O.P. sired by College Duke; also number of females. Address WELDWOOD FARM, Farmer's Advocate, London, Ont. SALEM SHORTHORN HERD Eight roan and red heifers about twelve months, big, well-bred heifers of fine quality, also ten young
bulls of our usual high class kind. A. WATT,
EEORA. ONTARIO
 imported bulls. They are all good individuals and represent the choicest breeding.
$\qquad$ WILLOWBANK STOCK FARM SHORTHORN HERD Established 1855. This large and old established herd has at the head the two great bulls: Imported
Roan Chief $=6086=$ a
Buterfly and the prizew inning bull Browndale $=80112=$ a Mina. An extra good lot of young stock to offer of either sex. Splendid condition. Good famiites of both milkin
JAMES DOUGLAS,
Btrain and beef. EC3. GLENGOW SHORTHORNS AND COTSWOLDS Pure Scotch in breeding. we have an exceptionally choice lot of bulls for this season's
trade, ranging in age from 8 to 15 months, big mellow fellows and bred in the purple.
Also ram and ewe lambs of first qualith, PLEASANT VALLEY SHORTHORNS
 Spruce Glen Shorthorns mivividww
 BURNFOOT STOCK FARM

## Shorthorns

 G. E. MORDEN \& SON, Oakville. Ont. IRVINEDAIE SCOTCH SHORTHORNS
 We are offering this fall the choicest lot of young herd headers we ever bred, several are of
serviceahle ngr. hikn in quality, rich in breeding. Also a number of heiters.

An Interesting Account of Things Overseas. Dr. James W. Robertson, who was
appointed some time ago as Cana dian appointed some time ago as Canadion
representative on the British representative on the British Com.
mittee for the Agricultural Relief of the Allies, recently returned from the battlefields of Europe, and readers
will be interested in he gave of conditions some accounts he gave of condirions in stricken lands,
and published in the and pubished in the Ottawa Citizen;
"As soon as one leaves Folkestone", said Dr. Robertson, "to cross the said Dr. Robertson, "to cross the
channel to Boulogne, the evidences of a whole nation at war thicken and deepen. Without the mastery of the
seas by the invisible as well as the visible navy the multitudinous traffic to France could not be maintained Comparing what I saw with what : recall from times of peace I suppose the cross channel carriage of men and materials is now twenty times greater and it has been and is being done safely, speedily and comfortably, barring the speedily and comfortably, barring the
slight inconvenience of a little crowding on the steamers. I am reminded of another example of the extent and efficiency of the service oftent and efficiency of the service of the Royal
Navy. ${ }^{\text {I cossed }}$ the Atlantic on one of the troop ships under convory. When
still more than two days this side of still more than two days this side of
our port, I was told To-morrow at our port, was to-morrow at
noon, we will be met by the destroyes, and then each ship will take her course with her own special convoy.' At
half-passt eleven the horizon was clear at twenty-five minutes to twelve a number of specks of smoke grew out
of the sea. The specks grew inte streaks, I saw the destroyers racing to to wards, us. Our ship was going three-
quarters speed to keep pace with the quarters speed to keep pace with the
slowest steamer. "At noon precisely the gong on
the under bridge sounded, the indicator marked '‘full speed ahead,', and off we went with a destroyer gam-
bolling in front of us and beside and around us like a watchful dog un willing to restrain its racing energy Consider the wide occan, the wastes hundreds of ships converging on and leaving the British Isles, the innumerable duties of the navy, and then reffect, 'At noon to-morrow.' Pre-
cisely at noon the engagement was kept. It was a the engagement was of surpise
kaval officer that I should find anything surprising in what I have stated. To the navy it was the usual
way of carrying out the work of one way of carrying out the work one year
of the ordinary 3 3is days of the yen
I salute the I salute the golden s.lence and the
eloquent service of the visible and
invisible but invincible navy. "The heroism of the French armies in the field is matched by the
patriotism of the French workmen in the factories, and the devotion of the French women in the fields growin the munitions work serve France with a tenseness, capacity and endurance which wages alone could not buy. poverty presses, I did not see an untidy ${ }_{\text {woman }}$ or child. The impoverishment in property seems to have imparted an enrichment of spirit and bearing. One
little girl of 14 , amid the ruins of a once pretty and prosperous village, pointed to the cellar just visible through the mass of debris on top. Her face had an awesome expression for a mo-
ment. The Germans pulled out the meny. The Germans pulled out the them both. The soldiers cut and tore. off the breasts of the woman in the open street. Those were the days whery,
the Germans, sure of speedy victory
let and and heir unbridled arrogance let go all their unbridled arrogance ${ }^{\text {and }}$ I ferocity. saw several thousands of the men of the French armies. On the men than those of the British army except the overseas troops and a fen regiments from the United Kingdom:
Officers and men alike were radiant with alertness. I saw several large bodies of troops coming out for periods of rest from the Forest of Argonne and
Verdun. They looked as fit and conVerdun. They looked as fit and conk,
fident, although not so spic and span,
as our Canadian boys under review.

November 9,
"NEW

Glenfoyle Shorthorns Large selections in females, all ages, bred
from the best dual-purpose families. extra choise fifteen-months bull, some
younger ones coming on. Priced well worth the money

SHORTHORNS

 Shorthorns and Swine: Have some choice and heifers of ofow material, som
foot. Adso hoice Yorkbhire owa
ond ANDREW GROFF R.R. NO I, ELORA ONT. Northlynd R. O. P. P. Shorthorns and Jerseys
Present offerin: craice, whose dam, his dam's full isiteto and hit
 Spruce Lodge $\begin{gathered}\text { Stock Farm, } \\ \text { horna } \\ \text { and Lelcertert }\end{gathered}$
 Maple Leaf Shorthorns and Shropshires. No

 PLASTER HILL SHORTHORNS


## Escana Farm Shorthorns



$\underset{\substack{\text { RREXAL } \\ \text { RREDINg }}}{\text { SCOTCH }}$ SHORTHORNS high-Glass
 SHORTHORNS AND SHROPSHIRES-T. L. Mercer, Markdale, Ont.


## SPRING VALLEY SHORTHORNS

ransten 8322. Cher wo grear breeding bulls,
YYLE BROS.
Maple Grange Shorthorns se telegraph via Ayr
asaple Crange Shorthorns scoth-toppedi

 Scotch Shorthorns, Yorkshires and Oxford Dewnic
 in Station, C.P.R.

November 9, 1916


## Silo Roof

Low priced, easy to erect, selfWrite to-day for price list and ree to mustrated onealiet, Investigate this roof, it is a good one.
The Metallic Roofing Co. Manufacturere of "Rastake" Shingles tORONTO

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Cream Wanted
Our markets have advanced. We
from 40 c . to $\mathbf{4 5} \mathrm{c}$. per $\mathbf{1 b}$. fat.
Net to shippers. Cans supplied. A line will bring you particulars.
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## CREAM <br> Where are you shipping now? And what are you getting for your cream ? <br> We want more individual shippers and more men to gather cream <br> and m. <br> Silverw'oods Limited <br> LONDON, ONTARIO

## CREAM WANTED

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We pay all expres
We supply cans
We remit weekly,
We remit weekly, $\begin{aligned} & \text { Wuarantee highest market price. }\end{aligned}$
Ontario $\begin{gathered}\text { Greameries, } \\ \text { London - Ontario }\end{gathered}$

## be sure and ask for the <br> $\qquad$ <br> asnsell <br> Line of WASHERS, CHURNS, BUTTER- WORKERS, FOOD, CUTTERS, GAS EN- <br> GINES, etc. Write for Catalogue. MAXWELLS LIMITED, St. Mary's, Ont.

## 1 YEARLING BULL

Bull calves from 10 months down. Could spare 10 cows or heifers, SEGIS PONTIAC DUPLICATE. R. M. HOLTBY, Port Perry. Oht.





## 2

 Everywhere along the valley of theMarne, at Par:s, at the Somme, we
heard and saw and felt plentiful evidence harne, at Par.s, at the Somme, we
heard and saw and felt plentiful evidence
of the cordiality of the appreciation
of the of the cordiality of the appreciation
of the British by the French and of
the French by the French by the British. In France
and Britain the entente cordiale has been sublimated from a political phrase into national devotion to a greater
cause with and for each other. "Of the British army in France
others more competent by far than have spoken and written. I had read much, I had read with a certain reserve the unstinted praise of the
spirit, its unfaltering courage and in spirit, its unfaltering courage and in
later months of its sufficient equipment. I no longer have any reserve represents what I saw and felt. . Miles and miles, and again miles, behind
the cutting edge of the wedge at the front, as far as the eye could reach were fantry and cavalry and artillery and aeroplanes. The country radillery and thronged with traffic like the main "At crossings and junctions of roads in the open country soldier police men directed the traffic. I did not see
one blockade or hear an ill-tempered wrangle. Nearer the front I saw Australians, New Zealanders and Indian cavalry with hosts of Kitchener's Army
from England, Scotland and Ireland irom England, Scotland and Ireland.
saw Canadians marching towards thei saw Canadians marching tor the great attack at Courcelette $\frac{1}{\text { I spoke with men of one company }}$ I was not one for any affectation orcasion for effect. I wish Canada could see the serious, confident, happy bearing of
her sons when their hour of trial wa ahead. One could only smile through pride in the bearing and spirit and character of the men.

Canadian Medical Service.
"The visit to England and France gave me opportunities of seeing some
thing of the Canadian Army Medical Service, a little of the work of the British Royal Army Medical Corps, and of the French Hospital service
for the wounded. The order, sanitary for the wounded. The order, sanitary
cleanliness and good health of the men in the encampments do not just happen. They are the result of intelligence, knowledge and industry-organized for
application to all kinds of situations application to all kinds of situations
all the time. The sanitary and medical astafs never seem to consider the question of personal ease for themselves. "From the wounded men in motor of shells to the men in hospitals and convalescent homes in England and Scotland, I followed the route stage by stage. The material provisions, are
marvels of suitability.
"The marvels hospitals of from 800 to 1,200
beds each are models of order and beds each are models of order and
neatness. That is evident on the surface. One such had handled 500 cases from the Somme on the morning
of the day of our visit. Nothing seemed to be lacking. But the doctors and nurses are the outstanding factors. has not bred callousness but rather ness and strength. The medical profession of Canada has evolved for itself a new nobility thres mak men and women great. "Then there are hospital trains fitted with berths for lying down cases and easy seats for group of hospitals evacuating fome 26,000 beds is done by about 50 motor ambulances furnished by the Canadian Red Cross Society and
operated by the British Red Cross
Society. Then there are hospital ships fitted with berths and rests to receive
men on stretchers. These are handled gently, skilfully
perienced men. They are lowered to perienced men. They are lowered lifts.
under decks by specially designed broken
The contented smile on the bron The contented smile on the broken
men as they start for Blighty is like
gentle moonlight on a quiet sea after a gentle moonlight on a quiet sea after a
storm. storm. The Red Cross Society is the
handmaid for the military medical service at every turn.
ments what the military authorities ments what the
provide and do. The women of Canada cannot hear at first hand the words of gratitude for the supplies and comforts they have made and sent. They cannot
individually see the thankful look of


Choicest Holstein-Friesians
Breed for Type and Production
Lakeview Dutchland Hengerveld 2nd heads our herd, He was grand champlon at the Canadion
National Exhibition and Western Fair, 1916. His
\%is sister is
Canadian
Champion 3year-old
 London and Toronto. Our present offering consists of young bulls out or
dams. Prices within reach of all. Write for extended pedigress and prices. W. G. Bailey, R.R. No. 4, Paris, Ont

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King Segis Pontiac Paul 15940


35 LB. BULL FROM THE HET LOO HERD



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DUMFRIES FARM HOLSTEINS

HOSPITAL FOR INSANE, Hamilton, Ont.

CLOVER BAR HOLSTEINS
 PIONEER FARM HOLSTEIN HERD

 ORCHARD LEIGH HOLSTEINS
 IS.

Weight
Gomus
GAS To offset the high price of gasoline. the best the world has perfected light-weight steels and scientific body construction
 Hecompl. Weight reduction has been
oxxcopt the of in invery part of the car execopt the top. All that is is noeded in a good top is
found in

RAYNTIT Single Texture Topping



 Spocity RAYNTITE S
 your auto witit this guararteed re-iopp
weight, long bevis
light


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 The Canadian Ayrshire Breeders Association
W. F. Stephen., Sec. Huntingdon, Que

## 15 95 AMERICAN SEPARATOR <br> Sent on trial. Fully guar- anteed. Erasy running, easily cleaned. Skims war

 American Separator Co $\begin{gathered}\text { Balnbridge, N. Y. } \\ \text { B. } \\ \text { B. }\end{gathered}$ Choice Offering in Ayrshires
 Glencairn Ayrshires $\begin{gathered}\text { Herd established } 40 \\ \text { years. } \\ \text { Producing }\end{gathered}$ ability from 8,600 to 11,022 lears. l . Protucing that sort of
production appeals to you, we have heifers art of production appeals to you, we have heifers all ages
and young bulls for sale
Rockton, Ont. Copetown Sta., G.T.T.R. JERSEY BULLS. For sale- Knoolwood's Raleigh,
sire Fairy Glen's Raleigh (imp.), 22 daumbters
R



those to whom they minister. But
somewhere, somehow there must surge into thei, soumenow the therse must surge
athough they look for none of reward
ath aithough they look for none,
is still great or Red Red
is
Thoss Service Is stif sereat, and Canadian women,
it than will till on more faii to meet
it the



 will no doubt be an enconace, and
to every Canadian Red Coss wogment

Questions and Answers Miscellaneous.
from a kitchen sink, making a drai same in a disused ravine 50 feet from sink There is only a small a concrete drain 1. How large should drain be?
2. Must it be plat line, soil heavy clay? 3. Approximately, what quantity of
concrete would be needed? Ans--A four-inch concrete tile would be large enough to carry all the water. It should be placed below the frost line
as there will be times when only a littl as there will be times when only a little
water will be emptied in the sink at
once once. If it does not contain force enough
in itself to how readily it may freeze
in the drain. The next water that comes
freezes and conseguently blocks the drain Ireezes and consecquently blocks the drain. cement would be sufficient.
Estimating Weight of Animal What is the proper way to measure a weighs?
12 by 35 feet hold? A silo of this di12 by 35 feet hold? A silo of this d
mension had 20 feet of corn in it las
year, but it settled How many tons would those 12 feet
$\underset{\text { stock by }}{\text { Ans.-1 }}$ Estimating the $\underset{\text { weight }}{\text { H. E. C }}$ stock by measurement can only be done
approximately. A ruie which was formerly used in the Old Country before scales
came generally into use was as came generally into use was as follows
The girth and length are measured in inches and the animal's body is considered
as a cylinder. In order to as a cylinder. In order to find the cubical
contents the circumference is contents the circumference is divided
by twenty-two seventh. This gives
the diameter, which the diameter, which must be squared
and multiplied by .7854 which give
area area of the end of the cylinder. Mul
tiply the area have the cubical contents, livi and you by 576 to get the number of imperial
stones and multiply by 14 to get the weight in pounds. There is another
rule which is sometimes used, but we cannot vouch for its accuracy. Mul tiply the girth in inches immediately behnd the shoulder by the length in
inches and divide by 144 . If the girth
is from three to is from three to five feet, multiply by
15 ; if from 5 to 7 feet multiply
by 23 . and by 23; and if from seven to nine feet
multiply by 31 to get the number will hold approximately 84 tons of silage A cubic foot of silage weighs about 30
pounds which gives $21 / 2$
tons in each foot Twelve def a silo 12 feet in each foo tons uf silag

## Veterinary

Ram With Cough Three-year-old ram has a bad cough
There is no nasal discharge, but almost chokes sometimes. He lies around and
appears dull. Ans.- The symptoms indicate tuber-
culosis, for which nothing can If the trouble be some ordinary throat trouble rehief can be given by applyoil of turpentine and water to parts of and then wrapping with flannel bandage Also give him ${ }^{10}$ grains chlorate of times daily. It would be quine the three
him exanined times daily. It would be wise to have
him examined by a veterinarian.


FOUNDED 186
 As you plan the parcel for shaving equipment is just as keenly appreciated If he already has are sweaters, mitts and "eats"

## Gillette Sirator

send him a generous supply of Gillette Blades, for probably he is sharing the razor with his pals who are not so fortunate.
Clean shaving is in high favor among our troopsof face woundsenitary-because it makes the dressing of face wounds easier-but most of ll because of its bracing effect. The Gillette is best for the job-and the man who has one is most popular in his platoon

Whatever else you put in his Christmas
box, be sure there's a Gillette Safity Razor or a supply of Blades. You can buy from your Hardware Dealer, Dru can Jeweler or Men's Wear Dealer- 'Bulldogs
and Standard Sets at $\$ 5.00$-Pocket
Sets at $\$ 6.50$ up. $\$ 6.00$-Combination
Gillette Safety Razor Co. of Canada, Limited office and Factory-THE GILLeTte bldg., MONTREAL

|  |
| :---: |

Young Brampton Jerseys BuLLS Rand ${ }^{\text {wood THE }}$
JERSEYS Present offering-Some high-class bautiful Jersey Hert
 Work our show cows and show our work cown Glenhurst Ayrshires For so jears have been breding the graet paw


Wha Payfo of Sa

## Cotton

GOOD Calf Meal
lax Seed, D Gluten Meal.
Bran, S
Citamp Dovercourt
Haral Fertil thie ontarig LIVING.

## OIL C

$\qquad$
We have smen

Tower
 Locust Lo



| THIRTY-THIRD ANNUALL |  |
| :---: | :---: |
| Ontario Provincial |  |
| WINTER FAIR |  |
| Guelph, Ontario, December 1st to 8th, 1916 |  |
| ALL ENTRIES MUST BE MADE ON OR BEFORE NOVEMBER 15th. |  |
| If you do not receive entry form by Nov. 1st, write the Secretary. |  |
| W. W. BALLANTYNE Straforad Stat stratord, Ont. | R. Wa, WaDE, Secretary |

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## FIRST-CLASS OXFORD

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## Oxford and Hampshire Down Sheep Farnham Farm The oldegt eatablithed

## MAPLE SHADE SHROPSHIRES

 BLAIRGOWRIE SHROPSHIRES AND SHORTHORNS



John miler,



## YOUNG TAMWORTH <br> Sows \& Boars <br> FOR SALE

Herolds Farms, Beamsville, Ont. Meadow Brook vorthotree souw bed


TAMWORTHS Young sows bred for Nov, and Dec. farrow, and a
nitec lot of boars ready for servict. Write John w. Todd, R.R. No. 1, Corinth, Ont.
 Shothe, from carefully selected stock, WM. MANNING \&ambse Write us your wants. Cloveralale Berkshires and Shropehiree-In
Berkabitren
can furnith boars or sow, all ages,

 For Cangarview Giestir whites
 from einnerr and cheres of any desired age, bred

D. DeCources, R.R. No. 5, Mitchell, Ontario Lakeview Yorkshires sow, or want a brood of the rreatest ttrain of the breed or (Cinck berela), | rite me. Young pies of all agees |
| :--- |
| JoHn DU | Sunayolde Chester Whites and Doreete. In



Pine Grove Yorkshires.Bred from prize.

 | pricee. Guarthted eatisfaction |
| :--- |
| Feetheratom at reasonable Streetaville, Ont. | Prospect Hill Berkshires Young stock, either sex, for sale,from our imported

sowa and bar. Also some from our show herd
headed by our stock boar, Ringleader STerme headed by our stock boar, Ringleader. Therm hand
prices right. John Weir a Son, Paris,Ont.R.R.1. Townline Tamworths We can supply Worths of both sexes and any desireng age oram- su-
perior quality, Also Leicester ram and ewe lambs,
Pekin ducks, Langshan cockerels Pekin ducks. Lanyshan cockerels and pumbs,
Write dus.
Streetsillle, Ont. R. R. M. D. Readman \& Son,
Duroc Jerseys For 13 years our breedchoice selections from the champoion herds of the
Ueis. We have both sexes, all ages, over 100 to
Seect from.
 Berkshire Pigs Registered stock, choicely
in pig, all ages. Can sump y young boars and sows in pig, all ages. Can supply pairs not akin,
CREDIT GRANGE FARM,
Meadowvale, O. Ont. Pearson,Mgr.
Morriston Tamworths and Shorthorns
Bred from the prizewinning herds of England.
Tamworths, bot seres Tamworths, both sexes, 140 to choose from.
Shorthorns, 5 bulls, from 5 to 10 months old, reds and roans, dandies. Females of the best milking
strains. Chas. Currie. Morriston, ont. YORKSHIRES and OXFORDS Choice young pigs, both sexes; two boars fit for
serrive. ATew good ram lambs. We guarantee
satifaction B. ARMSTRONG \& SON, Codrington, Ont. DURROG JERSEY SWINE
A few choioe sows bred, both sexes, all ages, bred
from imported stock. Heading herd: Farough's
 King $=2012=$, Brookwater, B.A.B's King 502
from U.S.
FAROUGH, Mporter and brededer. CHARLES

Questions and Answers. Miscellaneous.

A Boundary Tree
A and B live on adjoining farms
the rail line fence being a little on $B$ There was a large maple tree on B' land, but inside of fence on A's side.
A cuts it down and into stove wood
and draws it A cuts it down and into stove wood
and draws it home at once. Had he
any right to take it without consulting $B$ ? A since has set posts for a wire
fence. If $A$ fence. If A had a legal right to the
tree could B not have the same right
to take the rails that to take the rails that are on his land?
The fence has been there a good number The fence has been there a good number
of years. of years.
Ontario.
Ans.-A had no right to fell the tree
and appronrion and appropriate it to hi
out permission from B.

Copper Kettle.
Please answer through the columns of
your paper these questions your paper these questions. I have one
copper kettle for sale, weighing 35
pound pounds and holds 30 gallons.

1. What is it worth
2. What is it worth a pound?

Ans. $\mathbf{1}$ and 2. Copper commands a high. price on the market at the present time. The best and surest way to
secure a purchaser for your kettle is
to place an advertisement secure a purchaser for your kettle is
to place an advertisement in "The
Farmer's Advocate." This medium throcate." Which paper is
purchaser are brought an purchaser ar
one another

Separating Whey.
Would like to know, through the value of whey after it has beene feeding as compared with whey which has not been separated. Would it be a paying proposition to instal a butter plant for the manufacture of whey factory
Ans.-Authorities who have experimented with feeding whey to hogs
find that when ordinary whey is com-
bined is worth as much as corn, 10000 lbs . meal. Separated whey has about 25 per cent. less feeding value. Ordinary whey contains about 93.4 per cent. of protein; 4.8 per cent. carbohydrates, and .3 per cent. fat. It is doubtful if it would pay to instal machinery cheese factory. In some factories where it was installed it is little used. takes a lot of whey to make one pound of butter. Concrete Wall.
I am thinking of building a cellar under the mow of my barn. The
mow is 14 by 24 feet, 16 feet high, and
will hold will hold about twelve tons. If II
build my cellar walls of cement and make them 8 inches thick, can I put
sills in the cement? Will it weight? How much cement will it take to build cellar 20 by 14 feet, 8 feet
high, with wall 8 inches thick? How should I mix the cement? M.H.H.
Ans. The sills could cement, but, while an S-inch wall may be strong enough, we would prefer it a couple of inches thicker. A one-
foot wall is frequently used, and in your
case we would case we would prefer it. It would be
necessary to set it on a solid footing If the wall is built 8 inches thick, about $\begin{array}{|ccc|}14 \text { cubic yards of } \\ \text { of cement will } \\ \text { inches and } & 121 / 2 & \text { barrels } \\ \text { be }\end{array}$ and 17 barrels of cement, provided the Concrete is in the proportion of one of
cement to 8 of gravel. The gravel mixed.

CONSUMPTION OF MUTTON I
DIFFERENT COUNTRIES. IN 000,000 pounds of mutton that 1,139 , annually consumed in the United King-
dom. This is more than the amount consumed by the three next muttoneating countries combined. United
States has more than double the popula-
tion of the United Kingdom second in consumption of mutton, the total being $602,000,000$ pounds.
France is third with an
sumption sumption of $353,000,000$ pounds. As consumers of this class of meat.
,


Hogs get sick and you don't know what's the
matter. I want to tell you worms are the matter. I want to tell you worms are the cause o
many hog troubles. Here's the first great use of Dr.HessStockTonic

## It Expels Worms

Try it on your shoats. A tablespoonful for each
two hogs twice a day will do the business. Put it in the swill. Then look out for dead worms See your shoats improve. A great conditionerit cleans the system, gives appetite, improves digestion for cows, horses, sheep, hogs.

25-1hb. Paill, 82.25; 100-1b, Seck, $\$ 7.00$
(Duty paid). Never peddled, Sold by a dealer
Dr. Bess Dip and Disinfectant destroys disease germs-makes health conditions
for animals. A powerful disinfectant as well. Good for household use.


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Young sows due to farrow soon; also young pigs, both sexes, ready to wean. Address
WELDWOOD FARM, Farmer's Advocate, London, On
ELMHURST LARGE ENGLISH BERKSHIRES
 H. M. VANDERLIP
Langford Steation on Brantimporterd and Hamiton Radial

DUROC JERSEY ©SWINE, JERSEY CATTLE

TAMWORTHS AND SHORTHORNS

CHERRY LANE BERKSHIRES AND TAMWORTH


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When Writing Please Mention Advocale

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Bread is so essential to growth and vitality, you should encourage your folks to eat more. Win them to bread-eating by making your bread irresistible.
Baked from FIVE ROSES flour, your loaf enjoys a unique personality that belongs to none other.
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Five Roses TOUUD for Breads-Cakes
In the same splendid loaf, let it bring you this extra quality : -a fulness of nutlike flavour, a sweetness that is envied by the best cooks everywhere.
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Insist on FIVE ROSES flour for all your baking.
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LINSEED MEAI FLAX SEED
TTON SEED MEA. Write For Prices
OATS AND POTATOES

For Sale in Car Lots LAING BROS., Winnipeg, Man Yorkshires of best winng suains. Chatce


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"3 FEEDS FOR 1 CENT"

Thirty years use by hundreas of thousanas of
farmers has proved beyond Carmers has proved beyond the shadow of a doubt wonders with all ktinds of Llve Stock. This tact is national Stock Foned-but those who hear of Intercannot help wondering wiy use it for the first tim

The Reason for its Phenomenal Success If your animals were running wild, as Nature in-
tended, and as their ancestors did, they would be gulded by their instincts to eat cortain herbs, roots and seeds that, would keep their digestlve organis in perfect condition. This they cannot do on a modern they do not fully digest or ail tonics and conaitions glve them.

Hore lo Just where International Stock Food
Tonic comes in. it is the most Tonic comes in. It is the most perfect combination
ever devised by the medielnal values of the roots ever devised by the medicinal values of the roots, up an animails digestlve eystem to the point where it With its help the food value of the there is in it, ensilage and roots you feed is all turned into meat or milk, wool or work, instead of golng. in large proportion, on to the manure pile.

Without eating any more, the animals that get
tnternational Stock Food Tonic thrive much beto international stock Food Tonio thrive much better cally an pront, for the cost of the International stock Food Tonlc itself is soarcely large enough to be considered.

Equally importam is the fact that International Stock Food Tonic makes animals so healthy and vigorous that they can escape or throw off disetses that

International Poultry Food Tonic


The best Judges are the Men who USE it! I have bean using your Thtermations aloek wood somic now for three years on
all my stock, espeolilly horses ano catte.
Tind it pye me woll to use it as it keeps T ind it pays me well to use it as it keeps
them health and thriving maproves the
appotito. and ind inceaes the quantity of CoIfo never have a atick horse not even
 find that it use sives the hair of the ant-
mals, totter appearance ot certanly
keeps stook in fine shape and I want to be without it:John s. Holden President of Markham Milk Producers
Assoctation, Markham, Ont, R. R. No, \& Stohave used your valuable Thternational My stable is never without it; simply bo-
causo 1 woula not do without it as long
as I as I can buy it. I always buy it by the Ing a oristant user of it I can recom-
mand to nyyone. S . S. Rombough, Glen
Millen Ont.

F have used your Interantoonal stoek
 more fat in the least time than anything
Know of.-J. Hughil, Mervin, Saek.
Food Towic and find it an invaluable stock Food Tontc and ind it an invaluable addi-
ton to the det of all my stock.- J. A.
Wiliams; Barons, Alta. T Mere
I have used Thternational Stock Food
Tonc for five years now and it is a Fine proparaion ior ant anmans, especially for over-wpiked horses- to build them up
again, besides whith, it is reasonable
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