## PAGES

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LONDON, ONTARIO, DEGEMBER 27, 1917.
No. 1318

## Let FROST FENCE Replace Your Rail Fences

समTMTEA 2ZAD-HIDH 2S
$\square$ VEN yet, one sees a great many old rail fences - throughout the country. These old-style "snake" fences right at the present time use, up hundreds and hundreds of acres of ground, which might otherwise be put to good use

## FROST FENCE LASTS

$Y^{\text {OU will noice the illustation of the FRost HoLD. }}$  where stay wires cross haterals, This lock is much superior to any other woven fence lock, and holds securely without kink ing the lateral of running wire, thus weakening it. There is only a slight kink in the stay wire, and the general appearance is as neat as could possibly be wished for.<br>If you have not examined this lock closely, we will be very glad to send you sample, so that you may put it to some good hard tests.

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them and The Advocate in mind.

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## EDITORIAL.

LONDON, ONTARIO, DECEMBER 27, 1917.

## Farming in 1918.

The farm, always of first importance, was never before such a factor in the affairs of Canada and the Empire as it has been since the Great War began, and in 1918 it must fill a bigger place than ever. It is more than likely that before the close of the coming year the crisis of the conflict will have been passed. All hope so. No small part of that crisis will be in connec-
tion with the food supply. Millions of former producers tion with the food supply. Millions of former producers are now consumers and destroyers in the armies or Armageddon. They must be fed. The people at home who support them must be fed. The food must be produced on the farms. Farmers realize this and consumers are beginning to appreciate the efforts of the men who have stood behind the plow as their brothers have stood behind the guns, both doing their part to glorious effort is necessary for the coming year. Those who have preached increased production since the war started are just as tired of the sound of their own wairec as are some producers of listening to them, and yet they aseep on in the hope that they may be able to help some keep on in the hope that they may be able to help some
one over the hard places to bigger results from his one over the hard places to bigger results from his
efforts. The necessity is well efforts. The necessity is well understood. The winter should be spent in planning ways and means of getting the most out of the land next summer. The farmer is ready to receive suggestions regarding crops and stock most necessary and how to make the best of the general situation. Information is always gladly received by most people who would not swallow advice. From now until spring farmers will plan their work for the summer. Then they will work their plan. Anything which will help to produce crops and stock-food products in large supply and economically-will be a service to the people generally. If we all work together much good will be accomplished. There is some good in every effort. Let us reach the maximum in 1918. The Farmer's Advocate will put forth a stronger effort than ever before to be of greatest possible assistance. Use these columns for the discussion of practical farm problems.

## Prompt Publication of Bulletins and Reports.

We have many times pointed out the advantage it would be to agriculture, both from the viewpoint of the man on the land and also from that of the professional agriculturist who carries on the investigational work, if all reports and bulletins published by the Departments of Agriculture could reach the hands of those interested promptly. Very often publication and distribution are delayed and much important work stales before it reaches the public, or is distributed at an inopportune time, and is thereby received by the public at a great disadvantage. It is quite a common occurrence to get important reports anywhere from one to two years after the work reported therein is actually done, and in the past many a bulletin has reached the farm at anything but a suitable season. True, there are difficulties in the way of prompt printing of Government"publications, but these can be overcome to some extent. As stated in a paragraph in this issue, the Ontario Department of Agriculture held a special conference on the bacon hog, at the Parliament Buildings, Toronto, on November 6. Nine days later we had in our hands, a full report of the meeting neatly printed in bulletin form and ready for immediate distribution. The bulletin or pamphlet contains over thirty pages of type, and is as large as some bulletins which take months and even years to get through. We must compliment the Department of Agriculture on the facility with which they rushed the bacon-hog bulletin along. It was distributed early in the bacon-hog campaign-the time when most good could be done. This is a fine start. Other leanets on the same topic have been put ou
with all future agricultural bulletins and reports of immediate value. Interest wanes when material stales or is put out at an untimely season. The Departments have made one important step in their increased use of the agricultural press as a means of getting important facts to the people promptly, and while some have criticised their work , promptly, and while some have to let the people know what the Dhat it is important at a time when the facts will do Department is doing Reports out promptly and bulletins in people most good. motto for a beginning bultetins in seas be continued year after year. Much satisfactory work is being done and the people are anxious to benefit by it at the earliest possible date after results are obtained.

## Milk Prices and Hog Production.

A Farmer's Advocate subscriber fromá leading dairy district in Western Ontario, in the course of a conversation in this office a few days ago, drew attention to the danger to the bacon-hog industry arising out of the mill fere in price producers were receiving for whole milk for city consumption and for condensing plants where there is no by-product, and for milk going to cheese factories and creameries where valuable by-products remain to be fed on the farms. We are passing on his ideas, and there does seem to be some foundation for his arguments. The past summer milk to cheese factories has averaged around $\$ 1.75$ to $\$ 1.85$ per cwt. With an average test of 3.5 per cent. fat, milk to creameries would average, at 45 cents for butter-fat for the summer, around $\$ 1.60$ per cw . Milk sold to condenseries would likely run around $\$ 2.10$ to $\$ 2.15$ for the season, but the worst danger to the hog industry now is the demand for city milk, which in some instances io bought at as high as $\$ 3.00$ per cwt. Farmers are shot of labor, and keeping pirs means a lithe extra wo If they can ent considenhly mor for whole and feed nithing ducers have coedplained that meny will sell. Some producers have complained that the price of cheese has not levelled up with the price of whole milk for city or condenser trade, and rumors of changing from factory to a whole-milk trade may lead to action which might ultinately work no particular good to the farming industry. Creamerymen are not enthusiastic just now with oleo coming in, and keen competition for the whole milk. In dairy districts the bigger the percentage of millk going to the city whole-milk trade and to the condenser, the fewer pigs there will be finished. The cheese factory and the creamery leave valuable by-products for growing pigs. Skim-milk is worth at least 40 cents per cwt. In fact, it is difficult to put a value on it in cash, as it is almost invaluable in growing pigs and calves. Whey at present prices for other feed is surely worth 20 centa per cw . Add the value of these by-products to the price obtained for the milk at the factories and the returns average up very close to the price paid by condensers. Also, it is better for the farm to have the by-products fed on the place. However, there is lea work when selling the whole milk and that is a factor and there is a little more cash in it This poin is worth of consideration. Butter is high in price but not high compared with prices btained for milk not too Cheese is also high cream. sees more money in selling whole milk. Expert factory sees more money in selling whole milk. Expert factory
workmen are likely to be scarce next summer. The demand for condensed milk will be practically unlimited while the war lasts. But it is necessary to produce hogs. while the war lasts. But it is necessary to produce hogs. for after-the-war cenditioese factories and creameries much as possible onditions. It is necessary to feed as a levelling up of the facts, rea prices to ensure cheese factories and for all concerned.

## The Farmer's Advocate

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JOHN WELD, Manager.
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THE WARMERE
THE

## Cheese and Butter Makers

## Necessary.

from Prof. H. H Dean, of the Ontario Agricultural College, Guelph, in which the importance of ensuring enough expert help to properly manufacture milk into its well-known proon until the war is overe, next summer and from then In a letter appearing in the saterward was pointed out regular correspondents that an expert cheesemaker in the made of the fact the article was written had and the writer, a practical farmer, was at a loss to know what the dairymen of his district would do with their article offers expert makers are all taken. Prof. Dean' avail themselves of the special dairy course to be can at Guelph early next month. A large class will help some, and we feel sure that those who have the final say in exemption matters will see the importance of makers now on the job. They do a necessary work They manufacture a raw farm product into a more
finished state in which it will keep. They save food.

Nature's Diary.
A. B. KLUGH, M. A.
The Hun of the Woods.

All our flesh-eating mammals, with one exception, the Weasel. The Weasel is the Hun of the woods, it
is imbued with the spirit of kulture ruthlessness. It
kills for the sal kills for the sake of killing. Theugh the blood and
brains of a single fowl furnish a Weasel with all the food it requires it has been known to kill forty fullegrown
fowls in a night and in another instance to slaughter fowls in a night and in another instance to slaghter
fifty chickens. If it finds nent of Chipmunks it murders
the entire family, and after merely the entire family, and after merely tasting the blood
of one of its victims. sets forth seeking something else Seton says "The Weasels have the unloveliest dis-
position of all our wild animals. Outside of their
streagth and courage, we find little in them to admire. Most other animals, have a well-marked home region
and iriend, but the ordinary life of a Weasel is that of The characterization of the Weasel given by one
of the very gratatot of writers on North American
animal. D. . C. Coues is worth quot ing.
"A glance at the physiognonyy of the Weasel would
suffice to betray
of the highest known raptorial character; the jaws are sides of the enormous masses of muscle covering the sharp; the eyes are small, penetrating, cunning, and peculiar, moreover in the inght. There is something surmounts a body extraordinarily wiry, litheand muscular.
The Weasel preys on every kind of beast and bird The Weasel preys on every kind of beast and bird that it can master and this means everything from the birds. While many of the victims of the Weasel are
ber beneficial or harmless animals a fairly large proportion are mice and rats and we must "give the devil his due" in admitting that the Weasel is undoubtedly of value as an agent of destruction of these pests. The slender, for exploring the burrows and galleries of these rodents and it has been repeatedly noticed that when a Weasel
takes up its abode about premises infested by rats and mice that they are soon exterminated. For such a service performed in his barns the farmer is duly grateful, but the price that he often has to pay when the Weasel
turns its attention to the poultry is entirely too steep. In lightning-like rapidity of action the Weasel seen one still for a single instant. I recall trying to and time again It thought a well-aimed a blow fence. Time on it, but when the stick descended-the Weasel wasn't there. It was like fencing with chain-lightning. Again remember my attempt to stamp on a weasel that had making to call up some birds, and while it sound I was treat for some minutes it dodged my best efforts with rease Tround weasel is equally at home on the ground, under ground, under the snow, or in the trees and is in adthe branches of trees is almost as great as that Red Squirrel. I I
Rees is almost as great as that of
wither hibited its quickness in climbing and jumping when of my cottage. limb, down to the ground in a single jump, round and round they went, ever keeping to the same route. At
first they went so fast as to look like mere streaks and first they went so fast as to look like mere streaks and out what was taking place. Finally I got the Weasel with a charge of shot just as it was about to jump, and
the Chipmunk was so exhausted that it allowed me to pick it up
out-distance the Weasel, with its great speed, can eacily a way and keep going. Instead it goes at full speed for a short distance, then sits down and looks and listens
for its pursuer, and as far as I know the chase always ends for its pursuer, and as far as I know the c
in the same way-the death of the Hare
We have in Canada several species. Weal commonest being the Short-tailed Weasel, Putorius cicognanii, which is found from the Atlantic to the
Pacific and as far north as the 50 th Pacific and as far north as the 50th parallel of latitude about twelve inches in length, the tail being about one quarter of the total length, and having its terminal and white, tinged with yellow is dark brown above, becomes pure white above and bellowish white below the terminal third of the tail still remaining black has been suggested that this black tip of the tail is of
service to the Weasel, particularly it service to the Weasel, particularly in winter as birds
of prey, who are its chief enemies, may strike at this conspicious black spot and miss the Weasel. This
species, species, as well as other Weasels, is, in its winter pelage,
known as Ermine. The Weasels. seem to have no fixed home, but to haunt a locality until the hunting becomes poor by
reason of their inordinate lust for killing, and then to move on to new hunting-ground
If you ara kece your head when all about you f you can trust yourself when all men doubt you you can wait and not be tired by waiting, or being lied about don't deal in lies, Or being hated don't give way to hating,
And yet don't look too good, nor talk too wise
If you can dream and not make dreams your master, you can think-and not make thoughts your aim And treat those two impusters just the same. Twisted by knaves the truth you've spoken Or watch the things you gave your life to, broken
And stoop and build 'em up with worn-out tools If you can make one heap of all your And lose, and start again at your beginnings If you can force your heart and nerve and sinew And so hold on when there is nothing in you. If you can talk with crowds and keep your virtue If neither foes nor loving friends can common touch If all men count with you, but none too much; You can fill the unforgiving minute
With sixty seconds' worth of distance run.
Yours is the earth and everyth Oours is the earth and everything that run. in it
And-which is more- you'll be a man, my so

## Hardship Makes Strength.

 by sandy fraser. Yesterday wis snappin' cauld anmuckle like gaein' tae the bush to cho muckle like gaein" tae the bush to chop wood, sae I says tae tae boy "dim" says, I, "Ye might tak' yer axe an standing oot by itself there. When ye hae it doon y can cut the tops up intae sleigh-lengths."
I thocht that wad keep him goin' for the best part
the afternoon, an' then the weather got a wee bit or the afternoon, an' then the weather got a a wee batt
milder I'd gae back tae the woods mysel'. When dinna like tae expose myself 'mair than I can help inem had the congestion a couple oo years back. Thinks $\mathbb{I}$ dae."', Myself, there wis na such is the best place for me, the me. I wis juist walkin' in frae the barn that waitin' for shoutin" at me. "Say", he calls, "ye'll hae to brim the saw an' help me cut that tree doon., It's, tougher'n
the mischief, an' I I canna, the mischief, an' I canna, get a chip oot of
Sae it wis up tae me tae get the cross-cut saw an
gae back tae where the tree wis. It wis standin gae back tae where the tree wis. It wis standin
beside an auld lime-kiln that had been in use maybe fifty or sixty years back. It had taken pretty good
root in the hard groond aboot the lime-kiln, an' all the root in the hard groond aboot the lime- -kiln, an' all the
winds an' storms had done tae it wis to mak' it tak' wind an storms had done tae it wis to mak' it tak'
a better hold. It wis a tough lookin' customer a'richt, but we went at it. I sawed d way till my back wis that sore that I had tae gae doon on one knee tae gie mysel
a better a beter chance. It wis the toughest thing in elm that in my day, I can say that. At last it began tae bend overa wee bitan' wi' a few mair strokes o' the saw dond she went. But a' the same it wisna clean off. The last inch didna' break like a common tree would. It juist
bent, an', Jim had tae finish it off wi' the axe "Don't that beat a" " says he, "Ye could tie knots in that tree if ye liked. What makes it sae tough dae ye think, Mr. Fraser?" "Hardship," I replied
That tree has been standin' "oot here in the nor less. the last fifty years or langer, an' whatever the wind an' the weather could dae to it has been done. Frae the time it wis a foot high it had to rough it, but the mair the an' the tougher its body an' branches became. There's a pointer there for you Jim," say I, "The mair knocks ye get an' the mair hardship ye endure the better mon
ye'll be. Dae ye believe that?" if "Oh I dinna ken", says Jim, "maybe ye're richt. If ye are I ought to be a pretty guid mon afore nicht. gin I spend the rest $o^{\prime}$ the day on this job wi' the wind tryin' tae blaw the troosers off me. All the same I think
I'll tak' my hardship in the summer-time, if it's a' the same tae you, Mr. Fraser." Pretty soon after this I went back tae the hoose,
for tae be honest aboot it I didna like tae risk takin' or tae be honest aboot it I didna like tae risk takin' moderation is a guid thing even mhen it hae na doot that ship. It's a' richt tae mak' yersel' hardy an' a' that but ye want tae be careful ye dinna overdae it. I had in the wince that thocht that the less clothes he wore cauld. He's dead noo, puir chap On the the catch I canna' get awa' from it that the auld elm tree has a lesson in it for a guid mony people, an' especially for If I keneration that is growin' up at the present time. beginnin' o' this Twentieth Century I think there is a tendency tae mak' things as easy an' comfortable for corselves an' for oor particular friends as we possibly can wi' the means at oor disposal. I heard a mon say,
once, "If I had the money that that auid chap workin" in the field over there has, I'd see mysel' in jail before I'd break my back the way he does." This mon didna' ken that it wis the toil an' hardship that the auld fellow had seen in the course o' his life that kept him as weel
an', contented as he wis, an' made his last days as happy $\mathrm{an}^{\prime}$ ' useful as they were. However, the majority o' people look on work as
a hardship, an' na doot it is, in a way. But it's the kind ${ }^{\prime}$ ' hardship, an' na doot it is, in a way. But it's the kind that brings compensation wi' it. By using our muscle we get strength and by exercising oor mind we develop the ability tae think. Either kind $\mathrm{o}^{\prime}$ wark is hard enough, na doot aboot that, but it's the only way tae keep
frae rustin' oot an' getting intae the scrap-pile. I wis Irae rustin' oot an' getting intae the scrap-pile. I wis
in toon the ither mornin' an' as I wis walkin' alang the street I met a bunch o' wee laddies yellin' an' hurrahin' like mad. "What's the matter?" says I tae one o' them got the smallpox." It wis the same auld story, an
juist aboot the juist aboot the way I used tae feel mysel' at the same age, an' in the same circumstances. Gaein' tae school wis a hardship an' we dodged it as often as we could
But oor parents an' teachers didna' stand for muckle $o^{\prime}$ 'that, an' we dinna' grudge thankin' them for it noo It's the wee trials an' difficulties $o^{\prime}$ oor school-days that have helped tae mak' us as good men an' women
as we are, tae say naething o' what oor book-learnin' may hae done for us. Not much maybe, this last, but it wad hae been mair if we had been less afraid $o^{\prime}$ the
hardship o' keepin' up this hardship o' keepin' up this pairt o' oor education after The chap th
or difficulty hasn'ts through life without much trouble show for his time. I believe that the boy that gets intae scraps, an' then gets weel punished, is further He's had experience an' the discipline ${ }^{\prime}$ ' a'thegither ment that the ither fellow kens naething aboot. Ye'll maybe think that this is gaein' pretty far, but if I ken onything aboot it, that's what wetre in this warld for,
tae live an' learn through oor mistak's an' their con-


## THE HORSE.

## Diseases of the Feet-V.

Corns-Thrush.
Corns are a common cause of lameness in horses
They are often present without causing lameness but are liabe to become troublosome at any timess, hence
a horse with a corn should be considered unsound, ala horse with a corn should be considered usound, al-
though he may be going sound. A corn is usually situated in the inner quarter if the sole, whe bar wounds the blood vessels of the part, and causes an
extravasation of blood between the sensitive and inextravasation of blood between the sensitive and in-
sensitive soles. Bruises which cause corns may be caused by the shoe when the bearing is too great near the heel. or by the horse treading upon objects which are smali
enough to insinuate themselves between the shoe and enough to insinuate themselves between the shoe and
the bar of the foot. In some cases lameness is not caused, while in others it is, and its degree will depend
upon the severity of the bruise and the amount of blood extrayasated. In some cases pus is formed, when lameness is acute. It is a peculiar fact, that when a corn
is once formed there is a great tendency for its perpetuation without apparent cause, and not wit hitanding
the greatest care the greatest care.
Symploms,-As stated, a corn may be present with-
out causing any symptoms that will lead a man out causing any symptoms that will lead a man to
suspect its presence, unless the sole be pared somewhat suspect its presence, unness the sole be pared somewhat
deeply over its seat. While corns usually appear in the inner quarter their presence in the outer quarter
in not unknown. When the outer sulface of the horn sole is pared away, little red streaks will be noticed and
a little depere paring will $e$ reval sone dried bood a little deeper paring will reveal some dried blood.
The surface over which this condition exists varies great ly in didferent subjects. When lameness is ir present its
intensity will depend upon the severity of the bruise intensity will depend upon the severity of the bruise,
and upon the nature of the ground upon which the animal and upon the nature of the ground upon which the animal
is travelling. As with many lamenesses, especially is travelining. As with many lamenesses, especially
those upon which concussion acts directly, the lameness
from corn is more marked when the horse is travelling from corn is more marked when the horse is travelling
on a hard surface. There is no peculiarity of lamenes On a hard surface. There is no peculiarity of lhamenes
that will lead the observer to diagnose eorn rather than other foot lameness. When the foot is examined,
be observed that when pressure is exerted upon the seat of the corn (with a pincers, tester or ot herinstrument) it will cause the animal to finch. If there be suppura-
tion (the formation of pus) pressure by the thumb upon tion (the formation of pus) pressure by the thumb upon
the heel will cause pain, and if the sole be not opened to allow escape of the pus it will soon work up bet ween the sensitive and insensitive walls, and escape at the coronet,
thus causing quitto Treatment:-Remo
down, and, if pus be present it will escape; if not, the sore and inflamed part will be exposed. Then apply
poultices of hot linsed meal for two or three days and poultices of hot linseed meal for two or three days and
nights, to allay the inflammation, when lameness will
disappear disappear. The wall of the foot at the quarter should
now be the now be rasped down so that no weight will rest upon
the heel of the shoe above the seat of corn, and a bar the heel of the shoe above the seat of corn, and a bar
shoe giving good frog pressure put on. If pus has been phoe giving good frog pressure put on. II pus las been
present or the corn pared until resh boo was drawn,
the hole in the sole should be puged with tar and tow before the shoe is put on, in order that gravel or other foreign matter cannot enter the opening. The shoe
should be removed and re-set every three or four weeks and pressure kept off the quarter. By this treatment a perfect cure may be effected, but there is a great
tendency for the reappearance of the corn in a quarter tendency for the reappearance of the corn in a quarter

## Thrush.

Thom the clensisists in a discharge of a foetid matter Irom the cleft of the frog, a aising from a diseased co-
dition of the secretory surface of the sensitive froze In neglected cases the whole frog becomes involved, the horny frog becoming detached over its whole surface
Thrush is caused by irritating substances. generated during decomposition of urine and feces, which become re main there; by cleft of the frog, and are allowed to or semi-liquid manure or other filthy substances, and is sometimes noticed in orsest that are grazed on damp
land stand in damp, dirty ol thrush are: allowing horses to foreign substances out of the cleft regularly. In nome cases thrush appears without appreciable cause. There
appears to be a congenital predisposition to thrush in
some bos some horses. The liability to thrush is one reason why
a groom shat a groom should always have a foot hook on hand, and
thoroughly cleanse the sole of the foot and the cleft of the thoroughly cleanse the sole of the hot and the clet on the
frog every time he groms the orse, and, even if the
horse be pot horse be not regularly groo
should be regularly cleaned.
Treatment.- Preventive treatment consits in look-
ing well to the cleanliness of the animal's surroundings,
and and attending reaularly to the cleaning of the feet.
Curative treatment consists in removing the cause by placing the animal in a thoroughly dry, clean stall,
cleaning the cleft and removing any partially detached cleaning the clefft and removing any partially detached
portions of the horny frog. A little calomel or sulphate

THE FARMER'S ADVOCATE
of zinc should be introduced into the cleft, and worked
down to the bottom with a foot-hook, or other blunt instrument every tom with a foot-hook, or other blunt practice to put a little batting in the cleft to it prevent the escape of the drug, and the entrance of foreievn matter.
This treatment soon arcests the discharge and dries up the parts, and, if artention the discharge and dries
growth of new hoid to the foot, a growth of new horn soon appears. Another treatment that has given good resenlts ippears ihe introturet treationent the
cleft of a little formalin instead of the powders mentioned.

## The Suffolk Punch in England.

 Breeders of Suffolk horses in England have had asplendid year in 1917, and are looking forward with confidence to an even better one in 1918. This is the on the subject which has been issued by the Suffolk Horse Society. This show sthat the expansion of the
trade for Suffolk horses has been an outstanding of tene year in matters agricultural. For yearst the breed
has been steadily poing ahead but anything coadily going ahead, but never has there been Suftrok Punch has advanced in estimation during the principally for breeding purposes, has by no means been,
ponfined confined to the Eastern counties, considerable as it has been in this part of the country. From various parts of
England agriculturists have been on the look-out for them, and never before have been on the look-out for into' Suffolk in in quest of them. An increasing trade has also sprung up ort of Ireland.
All this increasing
in the remarkable prices which buyers baed is shown pared to give at this sreason's Mhich buyers have been pre-
Suffolk horses have sales, at which Suffolk horses have been selling at three, and even four
times more than they limes more than they were in pre-war days. The best




Two Beauties.
to the contention that there is money in the breeding of Suffoll horses. This mare, Matchelt, was porchased
five years ago for $£ 60$, and now sold for $£ 311$, while three of her progeny-a three-year-old filly, $£ 2033158$; a two-year-old filly, 1147 ; a yearling horse colt, 663
 yotar ano for $\mathrm{f60}$ made, with her progeny of three,
years
E701 8s.; while a third mare, bought four years ago for E701. $8 .$, while a third mare, bought four years ago for
675, made, with her progeny of five one being a horse
 the $£ 195$ expended on these thiree mares there was a return of $£ 2,096$ 35 over and above the purchase price.
In add ition to this the owner had the work of the horse for the our or inve years. from the fact that at no sale this year has the average been under tion. Menclesham sale just noticed. The next best was at the tispersion of the smaved stud at
Palgrave, belonging to the Rev. E. L. Savory, when Pallgave, , elonging to the Rev. E. L. Savory, when Tine animals averaged $£ 143$ each.
This sound and clean-limbed
This sound and clean-limbed breed has also become
very popular as a good war horse in Flanders and France
 told that, in this connection, "the Suffolk horse has
impressed all who have had anything to do with him mpressed alw who have had anything to do with him,
and the glowing tributes of both oficers and men as to his strenth and powers of endurance under very trying
conditions have, coupled with his remarkable freedom
 the reputation he has made for himself on the other
side of the English Channel. H He has succeeded where other types have failed." In connection with the work
of the Suffolk Punch in the actual war-zone, we are also of the Suffolk Punch in the actual war-Zone, we are also
told that proof of his "being a great worker and able to
do well on small rations is furnished by the testimony to the stricalturists in Northern France, who, accordin to the statements of returned officicrs, were so enamored exchange for their Percherons." Horse Society has to tell of the breed during the year Horse Society has to tell of the breed during the yearthe oubt equally interesting stories could be told by British horse breeds, and it seems apity that they do not follow the Suffolk example and let us know what their special breeds are doing. They would lose nothing
by the publicity.

## LIVE STOCK.

Dates of Live Stock Meetings.
Mond.y.
Feb. $4,2$. eb. 4, 2.00 p.m.-Canadian Thoroughbred Horse Society
Directors Meeting. 4, 2.00 " -Canadian Swine Breeders' AssociaDirectors tors Meeting
Canadian Thoroughbred Horse Society, Annual Meeting. Canadian Pony Society, Directors
Meeting. Meeting
Canadian Jersey Cattle Club, Di-
rectors Meeting
Dominion Shorthorn Brecders' As
sociation, Directors Meeting.
Canadian Swine Breedrs' AssociaCanadian Pony Society, Annual Mecting.
Tufsday.
Feb. 5, 9.90 A.m. -Ontarin $S_{\text {wine Breeders' Association, }}$ $5, \mp 9.30 \quad$ "- Canadian Troting Association, 5,10.00 " -Ontario Swine Breeders' Association, 5,10.00 " - Annuain Meeting. $\begin{gathered}\text { Dominion Shorthorn Breerders' As- }\end{gathered}$ Temple Building Meeting, Canadian Jersey Cattle Club, Annual Meeting. Canadian Standard-bred Ho Ontario Berkshire Club.
Canadian Trotting $\Lambda$ ssociation, Annual Meeting.
Canadian Sheep Breeders' AssoCiation, Directors Meeting Asso--Canadian Sheep Breeders' AssociaCanadian Standard-bred Horse
ednesday.
Feb. 6, 9.00 A.m. -Ontario Sheep Breeders' Association,
6, 10.00 - - Directors Meeting. Astario Sheep Breeders' Association, Ontario Sheep Breeders' Association,
Annual Meeting. Canadian Ayrshire Breeders' AsCanadian Kennel Club, Directora Meeting.
Clydesdale Horse Association of Canada, Directors Meeting.
Canadian Hackney Horse S Directors Meeting.
Evening-Ayrshire Breeders' Banquet.
8.00 " -Canadian Hackney Horse Society,
8.00 " $\begin{gathered}\text { Annual Meeting. } \\ \text { Canadian Kennel Club, Annual } \\ \text { Meeting. }\end{gathered}$

## Thursd

eb. 7, 9.30 A.m. -Canadian Shire Horse Association 7, 10.00 . Directors Meeting.
7, 10.00 .، Annual Meeting.
sociation, Annual Meeting. As
7, 10.30 " -Clydesdale Horse Association of Canada, Annual Meeting. Canadian Merefo Canadian Hereford Association, Annual Meeting. ntario Horse Breeders, Directore Meeting. Meeting.

Feb. $8,9.00$ A. M -Dominion Cattle Breeders' As 8,10.00 "- - Dominion, Directors Meeting, Cattle Breeders' As8, 1.09 P.M. - Eastern Canada Live Stock Union.

All these meetings will be held at the Carls Rite
Hotel with the exception of the Shorthorn annual meet-

Type and Quality More Important Than Breed.

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Directors of Canadian Sheep and Swine Breeders' Asseciations. $\qquad$
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## The United Farmers of Ontario Hold Their Fourth Convention

The fourth annual convention of the Vnited Parmers
of Ontario was held in the Labor Temple Teronto,
December 19 to 21 inclusive. It was by far the largist December 19 to 21 inclusive. It was by far the largest
convention since the organization of the central bedy
three years ago. Upwards of five hundred tel in attendance and the increasing
movement was apparent at every session. The Cnited Farmersas an organization seems to be steadilygrowing An increase of one-third in membership numbers was
announced and the organization now has some twelve thousand members scattered in every county province. Through the trading company with which the U. F. O. is affiliated nearly $\$ 1,000,000$ worth of
business has been done during the last ten ment o The United Farmers have a big work ahead of them and will do well to keep in mind the importance of having strong executives and building up an organization of
big men who are capable of handling a gigantic enterbig men who are capable of handling a gigantic enter-
prise to the advantage of all thosf engared in the lusines of farming.

Political Helplessness of Farmers. In presenting his third annual address, R H. Halbert,
of Melancthon, President of the U. F. O., said in part: "While the year has been a very laborious and
trying one owing to the scarcity of farm hel yon trying one owing to the scal h
thankful for the bountiful
to assist in keepling the food basket of the Empire
replenished that the boys who are so nobly fighting our battles in this terrible war may have enough and to spare
While we feel that we have been handicapped in a great many ways in our struggle to do our best for the Empire in this her time of need and while things look dark at present, still we know that the darkest hour is just before
the dawn. For untold generations, we have full the dawnely in the ways marked out for us. Such privileges as we have received have been ours by courtesy and not as our right.
"I misjudge the intelligence and motive power of
this audience if the dawn of a brighter day is not in sight for the agriculturist, the day when agriculture will not only be the backbone of the Empire at election times, but when agriculturists representing not only the back-
bone but also the brains of the Empire will sit in greater will have a say in getting British fair play in the making of the laws that are placed upon the statute books. "The farmers of Canada posses, though I am sorry to say they do not control the biggest business asset
of the Dominion, yet we have sat in the back seats until we have become isolated, while transportation, finance, manufacture and food distribution have become so thoroughly organized that they now represent one of the merce. Against such an organization how may the in dividual farmer expect to successfully
not generally understood that our agricultural export trade exceeds in value that of all other industries com-
bined. Agriculture is the hope of the nations. the hope of warring Europe. It is the hope of humanity, of civilization, of all that we as Anglo-Saxons have learned to cherish. It is the hope of human liberty
Farmers are the peace-makers of hum nity the great peace-makers who will heal the The very existence of manl-ind is in their keeping. The beeds of the earth, guarded them throwry ge the ed the season, cleared the fillds for the planting and harvesting knowledge of the art of agriculture is not only the most vast, but it is undoubtedly so for the presemt. part, The day is not far distant when the men who command the carth will receiva the recoghition whi.h che the world has ever witnessed, more disatrous in its
waste of human !ife and weath and more lothome in
its disregard of truth, virtue and the cherished momuwaste of human! ife and wealth and more loathsome in
its disregard of truth, virtue and the cherished monu-
ments of Christianity, in this ungodls sacrifice of ments of Christianit
strugyling humanity,

## thet will make this world safe for demo.t.

engaged with long years, millions of men have been engaged with guns and ammunition, fighting in this
war. Thousands of men from the farmo of Canada
have heard the call from Europe and have gone with the have heard the call from Europe and hav
gun and bayonet. Other thousands ha
the Allies may have somethin
the shost of famine. One
produce for the sake of the starving women and children
of $B$,utse to give our sons to fight in the trenches in Fiance. Wi.
are letween the devil and the diep Ne. There is no
busimos that calls for such waried knowlety and -kill


In Union is Strength.
United we stand divided we fall
The industry that gives you bread The farmer who ${ }^{*}$ does ${ }^{*}$ not respect his industry is a traitor to it

Co-operation, not competition, is the life
of trade. Equal opportunity to all, special priv ilege to none. A Club is the first stage of co-operation.
Your Club is just what you make it.
The farmers feed them all.
Co-operation is a merger of individual
efforts.
organization has received, especially when we are told
by some of the neen
by some of the men who are enjoving a fat living on our
monev that we, are too small and insignificant to tre oreognized. Atill a few millionaires in Toronto can name the men and have
them appointed oo the Cabinet. Government by the them appointed o the Cabinet. Covernment by the
people has become a mveth. The real rulers of Canada and the Canadian parlianents are the Lorded and the
Knighted members sociations, and transportation companies. Through their ssstem of ruling, there has grown up a band of own despotic will and in their own selfish interests. The recult is that to-day we are loaded down with a whole menagerie of white elephants causing a loss of millions
annually in the operation of our hasic industry of agriculture for the benefit of the combine. Iarmers are the onlv class that will not break the chains of party
bondage for their own benefit bondage for their own benefit and they compose the
only class whose industry is taxed for the benctit of the special privileged interests. So long as we remain so the interests will control.
specially for the of covernments is a serious business, by every farmer. The tremendous burden of additions, taxation which will lee required to carry our war debt should compel every farmer to vote in his own interests. But just as soon as the farmers make a moye to escape
from the party slave-pens, the politicia s g .t busy and wave the party fag and shout patriotism. A long as it does not make much difference which pen we are kept
in. "Suppose the Government of Canada made an appeal
to the manufacturers in the following terms: The fate of the Empire depends on the supply of munitions, we want you to make ay abundant supp, work longer
hours and harder. get your women and dilderen to help an possille. We do not know what prices you will get, that will depend on the dem.nd and the whims of
speculators. We canlot say what froight rates will be charged you We cannot purantee you asaimst
losses. You will still be charged the highest rate of duty raw material. fon will g.t no covermment aill of any
kind. Wi. will, however, have a lot of cow
 kin sof inst ution, the econt of which will he charged "How do you think the minnfacturers would take
to it? lut that is jut the kind of dope that is himded ouve to pay for it A litele gravy is all right if you have
sone mashed peratos to put it over but ue don't
relish it when it in the sole di h in a one rourse dimner.




 dian hoss, that autiocracy maly to orerthrown. Wail

## Membership Fees

## movement, the l nited Farmers of Ontarion is wot the husimess organization but is an org mization to carry communitiec. but it works in very wose connection with which is the Fealmerce Cooperative Compans, limited, work. Acoordingls, the financial statement of the 

 Following the President's adrase, a sumber amount of the fers which members should pas to the hateralassociation. In the past the central organization members thought that this fee should be higher in to carry on the wark Others b liewd that it would be rather difficult to go back to their local Clubs and per-
suade farmers that the fee should considerable discussion in which the ridiculousness of own husiness atis to promote organization work in his Si.00 was brought out it was decided to take the matter ship, fers until another year. Some spe kers, member-
 whotionked at paying more than fifty cents for the pro-
motion of his own organization was of very litte to that organization. (Other delegates thought that
the U. F. O) was of less value just now and it would be difficult to go back to their home Counties and Clubs and the fee remains the same for another year, and by the way, is altogether too small. We entirely agree with John Kennedy, Second Vice-President of the United
Grain Growers, I imited who sid that farmers ought to be asham $\cdot 1$ to raise any objection to a membership fee of one dollar, two dollars, or even five dollars or more, if such fee were neesessary to properly
carry on the organization to fight the battles of the man
Progress During the $Y$ grand.
The report of the secretary, J. J. Marrison, drew agricultural individuality Farmors have reached the limit of deale s.hsierviency and whil. the pressent rep art
of the work a 1917 to De emb.r 19. covers o ly th. in utive p. ind
of the year progress was shown. The increating bur lens
 to the limit of end irane: 1917 has been a strenuous
year for furm ra but many lessons have lreen learned. In tim sof stess co-operation makes prog is. During
the summ r seventy-cight pultic metass were held int thirty differmt comnties of Cotamise of thesere wenty second Vicplowident of the United Gohn Kennedy, imited K. M. Kunie, becretary of the Canadian tompril of Whiculture: C. N. Baker, Vice-President,
 local mern. This work will omana prosress, and will Ine cont inued next yoar. At the time of the last annual
mect ing the secretary's repart showed 2 ) merting the Scretary's report showed 211 organizations
and, hon momlerrs; now there are 315 org nizations, gain of 11.5 , and 12,010 , mems.res, a gain of 4,000 .
 have $1, \ldots n$ reached. Mr. M , rrison ong oned that reth Wimen join the organizat ion at the women of the W. stern irwwis A.weriation ine Clut in Victoria County has
 ociation, a Proshap through the
es of the Contario various coumties arious courties.
work which was
weakness lay in the fact that only 10,000 organized farmers outhe United Farmers of Ontario were seekeding
what should have been demanded by 250,000 who look
on and on and neitither assist nor demandided by 250,000 who look The greatest need in the opinion of Mr. Morrison
was a direct line of communication with the members. was a direct line of communication with the members.
He believed that no great organization without an
official organ could hop for offcial organ could hope for suxcess. Unity of purpose
is the propelling factorin organization, and in his opinion
without an official organ the without an official organ the organization becomes a mob driven by the cross winds of ignorance and bigotry. A new era in agricultural organization is be-
coming establishedd and the dream of the optimist is
sure to be verified accord sure to be verified, according to the Secretary.

Organization of Young Men.
Joseph A. Snider, Provincial Secretary. of the Junior
Farmers ' Improvement Association, gave a short address on "organization of the young men of aur ind address in which he eulogized the work of the District Representatives and explained the method of organizing the
Junior Farmers. Having benefited from the Shot Course work as carried on by the District Representa-
tives of the Ontario Department of Acriculture Mr tives of the Ontario Department of Agriculture, Mr.
Snider was more willing to give due credit to department al organizations instituted for the crepinime department-
helping to imporse of than were some of theolderspeakers who were particularly bitter against all officials of agricultural colleges and the meeting a feeling that all men appointed be in Government, Provincial or Dominion, were attempting in some, way or other to undermine whe wartempting farmers' organization. Mr. Snider's address, followed Cy a paper by Percy Mulholland on the "Dignity ow our
Caling." should have some effect in depicting the views caling." should
of younger men.

## Increased Production and Labor.

production and labor, and while many gaoct of increased brought out in his excellent address he had no solution
to offer for the to olf ar thor the labor problem. Our vast armies, as Early in the war no special attention was must be fed duction. At that time Lloydt-George was paid to pro-
the silver bullet would win the war. Then that the silver bullet would win the war. Then the call Saon after another change was made were speeded up. fluence possible was brought to bear to exhort the producers to greater efforts. In the mud of the last hundred acres tried to put in at last, every man on a crop. Farmers have tone their utmost but still if we are to have liberty, truth and rimgost butnestill in we the
eartl we must have food. We have been living too high eartl we must have food. We have been living too high
and if the Government is sincere in asking for increased
prod ction prod, ction, then theny should demonstrate that they they
are going to make the proper use of are going to make the proper use ons what is produced.
We must have conservation and elimination of waste, and the producer mustration be prot cted by a price for his
 produce for mere patriotism."'He asked that everyone gioting for us and the Our kinsmen and our Allies are or them. Some customs must be set aside famine efforts of the soldiers and the women of Europe must be supplemented. We must make a patriotic endeavor very interesting figures showing the waste of bave still being made into beer, which barley should be used to feed hogs for the armies and the civilian population these were his words: ". We haven't lator question, Eflose were his worts: "He haven't got any labor","
Efrate made by citizens of our towns and cities demonstrate that they do not know very much a bout the
labor situation. Farming is a hazardous occupation requires competert men. We must do all we can alone
or in co-operation in inexperienced help. Mr. Amos wors, rather than usher labor problem, but believed that the tarmer should the
hif
himsusiness out of other men's hands and control it his busines

Development of Rural Opinion
and development of rural opinion. Farmers formation numerous than those engaged in other werk, according
to Mr. Smith, and should have more influence than any rapidly and the rural population decreased has increased larger centres there is a maximum of orgased, and in the
in the rural districts the lack of orgon, while in the rural districts the lack of organization is apparent.
He believed that farmers possessed more knowledge
and He believed that farmers possessed more knowelenge
and ability for clear thinking than could be found
in the cities, but they lack the power to and ability for clear thinking than could be found
in the cities, but they lack the power to tontrol public
affairs He deppored the passing out of the debating
societies of vears ade
 on their feet, to debate in public and broople to think
fuuence to bear. He believed also that proper in-
Hen hope wasi ieath. Hunior Farneeved also that the princimal
but advised his hearearers to



Smith's ophion farmers are the great steadying in-
fluence in this country. J. N. Kernighan followed Mr. Smith. He believed that the greatest need was a consolidation of rural
opinion. It is necessary to have organization to opinion. It is necessary to have organization to get
the proper expression of this opinion and unless the
United Farmers of Ontario United Farmers of Ontario can consolidate public opinion they have no reason for existing as a a bodic
Mr. Keringham stated that the city press will not rurar Kepinion a staated that the city press will not give
of failure of four Do express itself and cited cases of failure of of chance Do expectors of the itself and cited cases
letters published in Toronto to letters published in Toronto papers. He favored an
official organ, perhaps a daily, for the United Farmers
In official organ, perhaps a daily, for the United Farmers.
In discussion it was brought out that one of the greatest needs at the present time is is fair representation of the
farming industry in Partiament farming industry in Parliament.

The Canadian Council of Agriculture.
R. McKenzie, of Winnipeg, and Secretary of the
Canadian Council of Agriculture, outlined the work of that institution tracing its development from the very beginning of a sosociation work ine the West. The the very
the Canadian Council is to gather dat which has a bearing on agriculture; for instance, this last year pamphlets have been sent out in great numbers,
including 75,000 copies of "The Farmers" The work of the Canadian Council of Agriculture is to crystallize public opinion. Mr. Mckenzie quoted
figures to show that agriculture is decadent and that while in 1881, 154 out of every been of Canada's population were engaged in agriculture,
thirty years later this number had decrese per thousand; while the numbers per dousceased to to 130 in trade and transportation had doubled and trebled.
H ded He dieplored the fact that farmers had signified their unwillingness to pay a membership fee of signion to their
organization, pointing out that orryanization, pointing out that the boot-blacks of
Winnipeg paid $\$ 8.00$ per year in support of their organ-
Wzation. ization. Farmers' Roads.
Olloted to (armers and their roads was the subject Mr. Elliott's. Epiniott, County Clerk of Peterboro. In is the duty to build and repair roads most used by farmers. In his opinion not two per cent. of farmers attend the city
market and only about onetenth of done by farmers is done on the County Road. These Roads System are used by citizens of under the County and ninety per cent. of their pleasure is derived on cithes that it is the durver financial support. He believed ment and insist that the citizens pay to the GovernThenses to be used on the main roads which they ute fhe Country Road System he branded as a yoke on use. all special effort those roads used most by fai mers and nea be put on their goods to and from the nearest rail way station to get that we should have roads for the peoplers, contended to market and not be burdened with concrete roads for
tourists' tourists' travel.
The farmer's James Pearmers. merket is his railway station, said ted in automobile licenses back be spent outic highway., Government money should licenses should got to maintain the thoroughfares which
they use.

## E. H. Stonehouse Pr Consumer

Association, in a pithy address of the Milk Producers
Producer and the Ury farmers are the heart of the country, and while urban
people betlo people believe that farmers have been unjustly favored Identical, farmers have a right to claim exemption at fed and farmerse are doing a and the people must be
is the bix shortal service. Labor fourteen hourtage per day even though farmers are working
have done their utmoction is falling off. They have done their utmost and never asked one undue
advantage, but with the rural population falling off from
thirty, fifty and even sevent cut off, and keeping in mind that cent. and immingration from the Old Land have enlisted and the drain of our
own Canadian boys into the and maintain production. As a body they are as loyal as delass in the Dominion and as a boydy are they request
and demand as a national service that skilled
left on the lett on the farms. Every skilled producer added to the or eight men in the trenches away the support of six
house, "if one man should din said Mr. Stoneshould (If one matively should die in the trenches, another
farm."
He advecating die in in his effort on the tion, placing everated an intelligent system of rensitha-
Non-essential industries where he could do most good. that the consumer did not be closed. He believed
stand the situation dufil stand the situation urtil he was fourced. Tot The aver-20
age consumer first tittempts to economize on neces-
sities, while he keepster
 farmers be loyal tor choser organization, he asked that
party politios whlich he nameciation, that they cut out
he hoped that the better seit the root of aly evil, out party politics which he named the root of all evil, ant
he hoped that the beter spirit which was now mani-
festing itself among farmers would hasten the day when the farmer would occupy his proper place in the when
numity. R. W. E. Burnaby of Jefferson, dealt briefly with
the subject of Price Fixing of Farme Product onty.
Mr. Burnaby believed that the Food Controller wis.
doing the best he could under the circumstances but was not getting a fair deal did appear as if the farmer long time from the date on which the tood him like a set the price on wheat before he fixed the price onlea and shorts. In Mr. Burnaby's opinion the law of of
supply and demand could be depe manipulated by unscrupulous dealer
cont control would be necessary. He believed then no
price of wheat price of wheat had been set, not to help the farmer but
because men bet wee the wanted it so. If any prie farmer and the consumer wanted it should be a my price fixing is done he believed
that should get for his product. He accused the Tarmer ment of hampering rather than encouraginy duction, and duction, and while they would not -guarantee the
farmers a price they would arturers at a rate that would pay munitions manuthe farmer's labor away from the land and pay each make en dollars per day or per nitht. Prices were assured the
pork packers by the British Govern por impasisibe toy tet ar prite for the farmer? The Food
Controller had taken the railroads and the manafacturers do not lose anythan, by price setting. "Who sets the price on binders,?"
said Mr. Burnaby. Not the Fod Co manufacturers whose agents quote controller but the
the different makes. Yet price for Mr. Buinaby believed the middleman is absolutely necessary but that the United Farmers' Co-operative ompany should be that middleman. proper representatives to Parliament and not be the lot past have been Tories and Grits that farmers of the how the tariff was a detriment to the producer and
consumer as well. Pitfalls of Farmers' Business Organizations. John Kennedy, Second Vice-President of the United
rain Growers, Limited, discussed some of the nitralle of farmers' business or, discussed some of the pitfalls he told those present that if they were ever lo mguage, where they must not hesitate to to wive their loyal support to their organization, financially and in every other
particular. $H$ He believed that particular. He believed that the United Farmers of
Ontario would do well annual meeting and to encourage them to work theri closely with the organization.
The first essential to success is executive ability and young men with practical experience in business methods. A man cannot grow up between the plow handles and and make in int commercial business on a large scale be selected; men who can guet constracts and close them not stop exte must have confidence in themselves and men to run the business. He urged also greatly increased paid-up capital that willestablish a line or credit
and advised that only high-class goods be handled

Resolutions.
Among the resolutions adopted was one urging the
Federal Minister of Agriculture immuavication of hogs against cholera ment. The delegates were also asked to bring to the membership fee. The Farmers Platfornceasing the approved and the Dominion Government was agked.
as a meant of in as a means of increasing production to remove the duty
from agricultural machinery, implements and clover seed. The Convention also favored the prohibition of the use of any grain in making alcoholic, beverages
during the war, and the Railway Commission will be as crushed rock for carriage as freight. The Dominion Government was aked to investigate the cost of cheesemaking and to take steps with the Imperial Government of production. The Presidents of the U. F.O. and the Morrisond Morrison, and two others to be named by them, were
appointed a committee to consider the advisability of
establishing an offial establishing an official organ.
Officers

Officers.
bert, Mela
E. Cresident, R. H. Halbert, Melancthon; Vice-President, Peter Porter, Brant Co.; H. V. Hoover, Hastings, Co.;
A.J. MCRae. Glengary Co.; T. H. Adams, Essex Co., and R. J. McMillan, Huron
In the meeting of the United Farmers' Co-operative showed that when the year was complete the business Would pass the million dollar-mark. It isinteresting to com-
pare this with pare this with the first year of the organization in which
$\$ 226,000$ was the increased to $\$ 410,385$; and the past year this latter Ligure is more than doubled. L . Blachford, Manager of the Company, pointed out that the United Farmers organized for the purpose
of bringing mutual interests, and that the organization provides the medium through which business is done, while the
Company provides in a large part, the sinews Company provides in a large part, the sinews of war
by which the work of organization is promoted. The resolution adopted by the U.F. .o. in octedection
with the estabbishment of an official organ was also
adopted by the Con D Directors of the Company



## Automobiles, Farm Machinery and Farm Motors

## More Timely Suggestions.

We had a visitor the other day who discussed with Is rather fluently the different automobile departments
that are being conducted by various publications and that are bing conducted by various publications and
the subjects threshed out in them from time to time He said that he was very interested in then because he had owned a car of some make or other since 1911. Has based upon the tact that much mognines and journals provided was too technical and
very aptly put it, "over his head."
"Keep on pounding in the timely stuff," was his
advice "and always write it in popular style. I have advice "and always write it in popular style. II have
read a great many stories about automobiles but have read complled to otorie them up because they dealt
been cont
with complex electrical thaterer or dificut propositions. What I want is the plain unvarnished We thought that we had told practically the whole story in relation to the care of cars and winter service
but we found out after talking with our interviewer that we had neglected certain details which, if if not im imor instance, we have given you suygestions with him. the use of alcohol but we know now that we failed to state that the aloohol in the solution with which you
filled your radiator evaporates very quickly It is there.
ore necessary to add a pint of pure alcohol at intervals
in order to make up for the evaporation and to keep your solution at standard. We evareolato consmand to keep your
that while we told you to change the of the case at regular periods, we diange the oil in the crank
sity for for this Sity for this peration, we did not emphasize the neces-
pologies. As we pologies. As we have stated on mawy and with ap-
casions the ordinary commercil castons the ordinary commercial gasoline meviousketed
at the present time contains considerable kerosene or
coal oil. This crude coal oil. This crude fuel does not burn until a high in consequence, some of it eded in the cylinders and so and into the crank case where it destrous some of the vear and kills noile. The ordinary lubricant prevents
 trips with your automobile very yit are of the keroseng
will get past the pistons, but if you are making many
short trios short tripst the pistons, but if you are making many
sifferent. Every time your motor cools off it must be heated up apary to a poour
where the kerosene and gasoline will burn or other wise where the kerosene and gasoline will burn or other wise
the low grade portion of the gas will be blown int ithe Crank case Kere pertion of the gas will be blown into the
not the only thing that does
not burn in a cold mot to not burn in a cold motor. You must remember that a certain amount of condensation takes place and this crank case
Our articles have dwelt at some length upon the care
of the battery but we find that many people do not even
now know the amount of care that should be terchised The battery requires more frequent inspections in thed cold months than it does in the warm months. The evaporation in winter is certainly not as great as in the
summer but the starting of a cold motor ummer but the starting of a cold motor puts a greater
load upon the battery than the starting of a bot The result is that the battery develops a greater internal heat and, of course, much more evaporation takes place If, in the inspection of your battery, you fand a green
substance on the terminals, this will indicate that there is a poor connection. It will become necessary for yout to disponnect the terminals and wash them with a heavy solution of baking soda, It is also well to subsequently
apply a coating of vaseline to the surface of the terminals. There are some owners who only use their cars during four or five of the summer monthse Thase
motorists should remember that a machine that is laid motorists should remember that a marhine that is laide
away for a long time frequently devel pes rust cylinder walls. To prevent any such happening it is advisable to remove the spark plugs and squirt in some ard oil on the tops of the pistons. By turning over the
motor you can now distribute this oil along the of the cyinders and thus effectively prevent rust
vinter time our final article upan the care of cars in winter time. If there is any point that we have over-
looked we shall be pleased indeed, to take it up in-
dividually.

## Canada’s Young Farmers and Future Leaders.

## The County Short Course.

$\qquad$ armers' sons had an opportunity of acquiring scientific knowledge on agricultural problems. Their information school-master experience. They knew that certain things had to be done in order to reap a harvest from
the soil, and that better results were obtained in the dairy and feed lot with some feeds than with others, but they were unable to delve into the whys of these things on their individual farms. And so they labored on in the dark with more or less success, but in many cases without fundamental principles underlying plant and animal infe. The agricultural colleges are the natural source of have done a great solution orm problems and they of grains and seeds have been created, crop yields have
been increased by selection and plant breeding, improved been increased by selection and plant breeding, improved
systems of feeding have been worked out, the chemistry systems of feeding have been worked out, the chemistry of poultry have been built up, types of buildings have been experimented with, and every problem of the dairy
from stable to finished product has been studied. Time has been given to the study of fruits, bacteriology, weed seeds, etc., and the deductions have been scattered broadcast by means of the press, lecturers, and students
of the college. However, only a small majority of the farm boys could spare the time to take a complete to inspire the youths of the land to acquire needed information for the carrying on of their occupation in the most efficient manner. This is no fault of the colleges nor yet can thost insurmountable difficulties lying between the farm and the college halls. Of late years these difficulties of acquiring an agricultural education have been free agricutural college is in sense brought to
of its graduates.

## THE DAIRY.

Oxford County Holstein Breeders' Club Had a Good Sale.
The Oxford District Holstein Breeders' Club again had a very successful sale, when sixty-one head were auctioned off for a total of $\$ 12,055$, which would make the average close to $\$ 200$. This Club holds two sales year and has gained the reputation of always con signing high-quality stock and has thereby won the confidence of the public which resulted in a large crow of Holstein breeders turning out at this sale. Bidding was brisk for practically every animal, the sixty-on head going under the hammer in a inttle over three hours. Daisy De Kol, consigned by Walburn Rivers Ingersoll, and purchased by C. P. Wilcox, of Chatham was the highest-priced animal at the sale. Four hundred and twenty dollars were paid for her. Sir, Segis Walker Korndyke, consigned by W.E.T Thomson, was the highest priced buil. He was purclased by Wh. Yulten, of uctioneers Moore and Dean
Among the consigners were: M. H. Haley, A. E,
Dunn, M. L. Haley, J. G. Currie \& Son, W. E. Thomison, G. Oliver, T. J. Lammiman \& Sons, C. N. Hilliker,
F. I. Heeney, A. T. Walker, B. D. Smith, T. G. Grevy,

A District Representative has been established in most counties of Ontario, and among his many duties
is the holding of a four to six-weeks agricultural course in some part of his county during the winter season.
This work ands of young men have seized the opportunity to hurther their knowledge of agriculture by attending these locality two years in sucucession. By going in the same locality each winter, some representatives have conducted a course within reach of every young man in
We know of young men who ridiculed their chums or rising earlier than usual on the cold winter mornings ime for the morning lectures. They ake an extra nap and then sit dozing by the kitchen stove, after the morning chores were finished, than and discussions on farm topics all day. But, now the laugh is the other way. The young men who made a
sacrifice to learn the why and wherefore of farming are sacrifice to learn the why and wherefore of farming are
becoming leaders in their communitiesthey are debating and speaking on public questions; they conduct crop and feeding competitions; some have won honor in
stock judging competitions, others have stock judging competitions, others have been selected
as official judges at fall fairs. They are maling sect of their work, and their opinions are sought after by even the older heads in the community. The short course may not be responsible for all the advancement,
but it has in most cases awalkened but it has in most cases awakened a new interest in
farm work. It has led many young men to decide in favor of the farm. We have yet to hear a young man say that he regretted having attended the course; most or them are planning to attend again if a course is held
in their neighborhood. In many munties short and special agricultural meetings will be held this winter Are you planning to attend?
By attending a short course the student can acquire a working knowledge of the principles of agriculture.
A series of lectures are
G. R. McCombs, R. W. Newton, Walburn Rivers,
F. Rowe, M. McDowell, W. C. P. Prouse, McGhee Bros., A. Groves, W. B. Poole, O. Wallace. Following is a list of the animals selling for $\$ 100$ or over, togethe
with the names and addresses of the purchasers: Daisy Fayne 2nd, Geo. de Montmorency, Wood- ${ }^{\text {stock }}$.
sto
 Baron Korndyke Segis, A. Dunn, Ingersoll
Gretqui Keyes Lyons, W. B. Poole, ngersoll Faforit Tehee Walker, F. B. Shaver, Copetown
Korndyke Baron Sexis, R. G. Boxali, Mossley. Korndyke Baron Segis, R. G. Boxali, Mossley Lady Fayne Beets, N. R. Mcarthur, Thamesford
Grace Fayne Homewood, M. J. Bain, Thamesford Grace Fayne Homewood, M. J. Bain, Thamesford
Lady Grace Fayne, G. E. Brown. Lady Grace Fayne,
King Midn. J. W. Innes, OTmsby , Woodstock....
May Posch Calamity, Jas. Liddle, Copetown Sir Segis Walker Korndyke, , T. Pulen, , Boostock Mercena De Kol Segis, A. S. Downham, Thamesford Sir Zorra Walker, (., Bishop, Nor wich
Victoria De Kor Beaut, J.Fox, Guelph
Princess Netherland De Kol, Jas Lidelde

## Princess Netherland De Koi, Jas. Liddle Bessie's Claressa, W. J. Fraser, Streetsville.

Irene Dewdrop De Kol, Jas. Liddle
Winnie Dewdrop Keyes. W. H. Dent, Woodstock
Jennie Posch ounter. Bolton, St. Marys
Pauline Countess. I. But
Tidy Jean Colantha, G. Hart \& Son, Woodstock.

tive, assisted by specialists, on such subjects as crop
production and rotations, farm operations, production and rotations, larm operations, prisciples
of breeding, feeds and feeding, compiling rations, dairy
oractices, practices, poultry, horticulture, weeds, weed 'seeds, insects, under-drainage, etc., Demosestrationeed are held
and the students are given practioe in tock and the students are given practice in stock judding,
milk testing, grain judging, weed identification, public speaking, etct. If If a maning, weed identification, public
the amout of usedul himen and it is surprising the amount of useful information that can be acouvired community. The course is held at a time when work
on the farm is lest on the farm is least pressing. The hours wor lectures
are such as to enable the student to assist with the are such as to enable the student to assist with the
chores night and morning. If a short course is held chores night and morning. If a short course is held
within eight or ten mile of your home, you mis an
opportunity if you fail to attend. Consult your District
 Representative regarding the place of
of lectures to be given in your county,

## Feed Consumed by a Litter of Pigs.

 Editor "The Farmer's Advocate"On April 29 last my sow farmwed a litter of ten piges The following is an account of the meal fed and the seling price. The hogs were fed some mangels, the weive of wiich 1 am unable to give. They also re ceived a quantity of skim-milk twice a day. The feed cht.s 500 pounds of shorts at $\$ 2.25$, and 200 pounds of
shorts shorts at $\$ 2.40$ per cwt., making a total cost for grair
of $\$ 128.36$. On October 31 I sold nine of the $\$ 15.50$ per cwt. They weighed 1,780 pounds. The other pig was killed on November 15 and dressed 170 pounds. receipts were $\$ 316$. 70 , leaving a prowit. over the the total grain of \$188.34. Taking mangels, skim-milk and labo nto consideration, I consider there would be about
$\$ 100$ net profit. $\$ 100$ net profit.
Halton Co., Ont.
$\frac{\text { V. J. }}{. . .135}$ Josil De Kol Butter Baroness, $W$. Bolton
Millicent Walker T. Willoox, Sit Aunt Mary, Tikilcox. Wilcoox.
Winnifred Walker, T. Wilc. Daisy Queen Calton, Jas. Liddil Excelsior Lady Ko Wileon S. $\quad . \quad . \quad . \quad 230$ Adel Tide Springbank Schuiling, G. San.P. Caledonia... 220
Maple Grove Beauty Collu............................. 17 Dapisy De Kol, C. P. Wilcox Chathart \& Son......... 19 Pioneer Mechthilde A. Hartog. I. E. Casler, Nor- ${ }^{420}$ Colantha Mercena De Kol, J. W. Innes, Woodstock.. Dutchland Merenen, G. Harri\& Son.
Charlote Ormsby Segis W. C. Houc Centre View Walker Segis W. C. Houck Centre
Centre View Ormsby Lad, F. Hilliker, Nodstocl
 inderne Valdesso Ormsty Fayme, A. Duff, Corinth Sir Randolph, M. Armstrong, 'iilsonburg'
Jennie Calamity Posch, J. A. Bryden, Galt. Queen Posch Wayne De Kol, J. P. Grifin, Burling Alice De Kol Mercena, A. S. Downham Alice De Kon Mercena, A. S. Downham,
Aileen Daisy Pietertije, Walter Wilson, Salford
Sir Ormsby Harto Merces, T. J. Lammiman \& Heimke Ina Triton, Biggar Bros, Oakville Heimke Ina Triton, Biggar Bros, 0
Heimke Canary Faiorit, Jas. Liddile na Mercedes Pontiarit, J.J. J. Liddie Guel Gh Heimke Pontes ont Jiac. J.
Canary Ina Clothide.

## What Dairymen Think of the Mechanical

If there is one job about the farm which is despised
more than another by hired help, and even the dairymore than another by hired help, and even the dairyman's family, it is "milking". It is a chore which must five days of the year, and on the majority of farms it is done before and after the regular day's work. Milk he race and yet ood. It is essential to the welfare o boy or girl becoming dissatisfied with resulted in the and hired help refuse to be tied to a cow's tail. Con sequently, darrymen were face to face with a difficul problem, in fact, many are yet and are forcod to de Where dairying is specialized in and can milk themselves. ere kept, it requires quite a force of help to do the milking, and should one member be absent it throws extra work on the others and prolongs the chores far into the night. It is not so bad on the average farm where only
six or eight cows are kept. One person cin mill number in about an hour. It is genenerally recognized that the good dairy cow is the most efficient machine through which to market farm crops, and many more cows would undoubtedly be kept were it not for the day Milking by machinery has been under consideratio for many years and about two hundred patents for turned out were prohibitive in price. The first machines besides not doing the work as it should be average man, necessary to manufacture a machine that would draw the milk from the teats without in any way injuring the teats or udder; it had to be made so that the parts reach of the average dairyman. price had to be within machine that will imitate a calf or hand milker. By use of rubber teat cups, a combination of suction. By pressure on the teats and lower part of the udder has cows are milked as satisfactorily my the users is that milker as by the average man, without any mechanica of udder trouble resulting, and that where twelve or The labor shortage has pay to have a machine.
sider installing a mechanical milker. Already there aider instaling a mechanical milker. Already there of the nature of a milker would prove unseticfachine in some instances. But, failure to make good is as often the fault of the operator as it is of the machine. of milking, and ease of keeping clean, parts, efficiency points to be considered in a mechanical milker. It seems reasonable that milk drawn from the teats and conveyed to a covered pail through tubes should be more free from contamination, due to stable dust and The chief danger is in the tubing into an open pail oughly cleaned. The porosity of rubber makes it difficult to keep clean; hot water does not dislodge minute spores clinging to parts of the cups or tubing, and live steam injures rubber. The most satisfactory submerge the parts in a good sterilizing solution. Several solutions are in use, but chloride of lime has proven the most effective. Care must be taken that the solution is not too strong, as it may injure the parts. If it is chloride of lime dissolved in ten germs. One pound of clear solution used retains germicidal water and the about two weeks. The parts must be completely covered by the solution between milkings and it is necessary It change the solution every ten days or two we ks. frequently and scrubbed. The quality of milk obtained

## Milker.

## in manipulating upon the care which is exercised

 in manity of machine-drawn milk is machine. Poor that the operator is falling down on the job of cleaning the parts. If a man is not prepared to go to a little trouble in looking after the parts and keeping them in a proper solution, he had betternot bother with a machine. He will not be satisfied not his experience may keep other mill not be satisfied something which way keep other men from purchising herds, and at the same time decrease the labor connected with milking. The mechanical milker is proving to be beftient in most cows take kindly to it, and milking can of a number of what might be considered delinate up and is not fool-proof. The following paragraphs parts the opinions of prominent dairymen regarding the mechanical milker. Some are perfectly satisfied: others are

Milling Machi
Milking Machine Pleases Hired Help.
forty cows and has used a milling the has a herd of seasons. He is satisfied with milking machine for two At the time the machine was installed he had grave kindly to the mechanical milker. However would take machine was put in operation his fears were dispelled as no difficulty whatever was experienced in getting the cows accustomed to its use. When changing from a slight increase in milk yield and the mature their own. Dr. Cline estimates a saving of fifty held cent. in time by using the machine, and this is a great consideration especially during the rush of seeding and harvest, when help is never any too plentiful. So far the machine has been noticed. The cows are all stripe of by hand to make sure that the milk is all drawn. Very little milk is secured by stripping from the average from all quarters some which do not give an even flow is found that the machine does its best work whity. It cows are fresh, and that it is advisable to milk by hand when the cows are nearing the end of the lactation period.
The
machine-drawn than when milked by buch better when as is available. The tubing is kept in a solut help chloride of lime between milkings. The herd of forty cows are milked and the utensils cleaned in one required; in fact, new rubbers hor the repairs have been have been needed so far. The rubbers need all that about every six months. After two season's use the machine appears as good as when it was first installed except for the depreciation in the rubber parts. Dr. warrant the purchasing of a machine. Hired help ald preciate the milker, and the Doctor finds he has aptrouble in keeping help since he secured the machine

Prefers Hand Milking with Cows on Test. T. H. Dent \& Son of Oxford County, had a milker they discarded it and have not but two years ago Dent says: "We found that not used it since. Mr. dhey had a tendency to dry off sooner with maching
milking than by hand. The machine apparently gave satisfaction and we had absolutely no udder trouble all the milk possible from the cows, we desired to get records, and we found that the only when to get that yearly by hand milking. We do not condem the mechanical milker, and in many cases it is of great value as a time

## Better Work with Machine than with Average Help.

 mechanical milker, but others, while nothiastic over the machine, find that, but others, while not condemning the by hand milking. J. Butler, a Middlesex County farme and a herd of fifty cows, part of which are pure-bred machine as Messrs. has been using the same make of it has given very satisfactory results. However, had not running his cows on a test. Three units are used furnishes plenty a -half horse power gasoline engine the machine does better work than is claims that average person whom he could hire at the present time, but it does not do better work than a good hand milker, Owing to greater uniformity of milking, production inthe teat cupthing. The udders are massaged just before every milking, although they seldom give much milk. Mr. Butler claims that it takes practice for a man to be able to operate the machine quickly and efficiently. in order to get fast milking. If put on a little straight the point of the teat is liable to touch on the side owise cup, thus interfering with a full milk flow. He claims that it is possible for one man to look after two units udder trouble; in fact, not a lump can use, there is no cows' teats while before using the machine some on the cows appeared to be losing their quarters. This is claimed to have been due to the work of inexperienced ho keep the machine clean. After finishing mifficult water is drawn through the cups and tubing milking, rubber parts immersed in a chloride of lime solution The pail and other parts of the machine are scalded. has been heard regarding the quality no complain claims that it requires common sense to Mr. Butle satisfactorily. He has had to adjust the pulsator little in order to obtain good results. Repairs in theyear amounted t, $\$ 180$. year amounted to $\$ 1.80$. The monthpieces of the out. It requires in the neighborhood of six which give month to supply power to operate the of six dollars per a herd which would average between forty and fifty

Machine Most Valuable When Cows are Fresh have M. Holtby of Ontario County, writes: "W have used a milking machine for three years and a half
and in spite of the fact that turned this particular make down for several the main one of which was that the cows went wrong in their udders, we are still using it and have never had any trouble with cows going wrong in the quarters. We give down hor milk freely, the milk will all be removed to hold up a be no bad effects. Some cows continue milked as dry by the machine as the average milker will leave them. We find that heifers averally mespond to mechanical milking the best. Our experience has been that there is very little expense for repairs; power
is the main item. I would rather have a three-unit


Sadie Vale Posch


Humeshaugh Invincible Peter

## THE FARMER'S ADVOCARTE

 mill ar than the help of a gooil man at milking timeand if the cows were al! fresh than two men the cows near the end of the milking periond, the machine time to wash the machine and also to pate on and take
off the tast cups on a milk as with one giving a large fow. In ouncr worls,
the more milk a cow gives the mores mantlinc will, appreciated. Where felpe is scarce we lelieve it would
pay with even less than ten cows.


## All do not give Satisfaction.

 which would account for one being a sucresss and the
other a failure. Some men can handle maichinetren mechanism of meechanical milkers so as to get the right amount of pressure or vacuum, which will extract all the
milk without injuring the teats. Some dairymen complain that the machine will draw blood from the teats; this cannot help, but be injurious and the the terats; this of
adder trouble. However, the same make of machine in the hands of another dairyman does not cause these difficulties. Mc Cicar Bros, of Elgin County had the
same kind of machine installed as Nr. Holthy has been
Nsing for the mast using for the past three and a half years, but the machine
did not give them very sood satisfrctitom did not give them very good satisfaction. They have
a herd of twenty-two cows and they found that the milk flow kept up fairly well if stripping was done after the considerable time was saved in milking, but sthey found that it required a lot of time to keep the marchine reason-
ably clean. Then, too, they had difficulty in getting the teat cups to work on certain cows. They were all
right with a short-teated cow, but were anything but
satisfactory when the machine had been in use for some time several of the cows contracted garget, and the cause was laid
on the work of the machine. It was claimed that the pressure or vacuum was so great that the blood was
drawn right to the surface of the teats and they be somewhat inflamed. Two or three hours after milking they would go back to nearly normal again. However,
they lost the quarters of several valuable cows and they lost the quarters of several valuable cows and
rather than have this continue they went back to hand
mill rather than have this continue they went back to hand
milling entirely An outfit which
of dont several hundreds runs alngs over the stalls, but the vacuum, pump and
units, are piled up in one corner of the dairy. Besides units are piled up in one, corner of the dairy. Besides
iniuring the cows, Messs. Mclicar claim that the
iuning running expensess, were hesshs. Mc Micar claim that the
power engine it required a six-horsedirections regarding the operating and cleaning of the machine, they had more or less trouble with the quality off flavor before they could deliver it in the morning and milk kept from Saturday nimht or Sunday morning until Monday was decidedly of Havor and had an odor.
After the mill was drawn it was handled the same as when milking by hand, and under the latter method there was no trouble with the quality of milk. It may
be that this particular machine was not adjusted rightly but any alterations made did not have a beneficial effect. The fact remains that after giving the machine a trial extending over a period of a year and a half,
Messs. MCVicar are now milking their herd by hand and claim that they have no udder tro
and are able to market high-quality milk.
Milking Machine Permits of Increasing the Herd. J. E. Brethour, a Brant County farmer keeps a herd
of fift milk cows and several years ago roied a mechan-
ical milker but was not satisfed ical milker but was not sat isfied with the work it did and would not stay on the teats. The machine also had
difterent sized cups for different sized teats which Mr.
Brethou Brethour considers is not a desirable thing He claims
hat the universal teat cup is the only one that the universal teat cup is the only one that he would
buy. Ten months ago a different matee of machine
was instaled and it has diven satisfaction erer There was no decrease in minill tlow when changing from has been noticed that can le attributed to the use of the machine. Mr. Bret hour has been able to increase his
herd since he has not had to depend oll hand nilker. as by use of the machine fifty per cent. of time it saved.
lith mature cows, it is necessarvy to strip, but the machine milks the average heifer practically dry. The quality
 cleaning arge herd, when if reasonalle care io faken in
result." the machine lietter and lleaner milk is the

Care and Cleanliness Essential to Success.



 ore is a danger of lowereng the standard orr quality never missed day hay mince we we comennenced using th withe haut beng thoroughly washed, which only takes alout ten
minutes. after which it is put away in a solution which who is short of hislp and trying to run a dairy farme or more cows, is to buy a milking machine, providing
he is prepared to keep the machine perfectly cloan and don't brains to run it. Unless prepared to do this that a boy or girl twelve or fourteen years of age can
run a machine, we clont wonder the run a machine, we don't wonder that they get disgested
and scrap the out fit. The marchine has no lorainss the man who runs it must supply them. zall cows will not let down their milk when the same that must have special attention by the man looking

Mechanical Milker not Expensive to Operate. Owing to scarcity of help, W. W. Ballantyne \& Son
Perth County, were obliged to install a mechanical milker last March. So far they are well pleased with The following is their experience with the machine to
date:" "The cost was investigating a number of machines we decided to in stall the one in which the first cost was considerably less than some of the others, and we have found the cost
of operating fairly light an firs engine as power, costing us about ten cents a gasothe milking and separating. Later we installed an electri plant and now use a one-half horse power motor, which
furnishes power Kornishes power at less than half the above amourt Sieces of the teat no repairs, but the rubber muith this is not a tigig item of expense.
and two men past sammer we milked sev-nteen cows five minutes. If milled by hand quite easily in forty men in the neighborhood of one hour and a half We use three single units; one man handles the machine and the other strips. We find that cows milk much the same with the machine as by hand; that is to say with the machine and vire versa. We have had no same trouble that could be attributed to the machine, not do we think that the cows dry off any sooner than when milked by hand, but regarding this point we would As our cows are pure-bred and more ar less nervinitely expected trouble in accustoming them to the machine but we had none whatever. Some cows would stop enting and bawl for the machine as soon as the engine
was started. Of course, the operator must study his was started. Of course, the operator must study his
cows and humor them a litte. In this t think lies a good deal of importance as to whether the machine is a
deal suctess orter not. A man of a mechanical turn will certain-
ly
"If a man is entirely alone with 4 en cows to milk, we think a machine would pay, and where there is more
help more cows may be kept than before. The machine saves time does not decrease the milk yield nor lower
the tuality, but it muet be kept clean. The pails teat cups are taken alart twice a week in the summer
and every six or seven days in the winter and thoroughly Washed with washing sodla and warm water. When not

Many Men Have Many Minds.
permits thêe krecping of ara larger herd of daing cows, and operator is sometimes to blame. There are men who


operator is sometimes to blame. There are men who
ick the knack of running machinery. With any
machine consisting of a number of parts or where the mechanism is in any way complicated, the operator hould be able to detect when everything is not running adjust ments. To be a successful operator of a merhat cal milker, a man must know his machine, know his cows know how to keep the machine in a sunitary condition Unsatisfactory Possibilities and Beneficial Features milking machines have been experimented with and studied. The following paragraphs by Geo. W. Muir,
Asistant Dominion An Amal Husbdman, points out
unsutisfactory the merhanical milker: We have again come to the
time of the year when all live stock is stabled for the winter with the consequent increased chores, and owing
to the scarcity of labor almost every farmer and 4. the dairy farmer is handicepped in his especialproperly handle his tion by want of sufficient help to to hire farm hands at anything like a profitable wage is being turned to mechanical contrivances that will that we would again call attention to the use of milking While they are not yet as exact or efficient as some of Our intricate industrial machines such as looms, etc., Tre not of one stamp or grade such as is the case with milking mach woon used in the loom, nevertheless most to do good work if properly handled. This is the point upon which most farmers who have installed a mechanisal miker and found it a failure have fallen down. They have in many cases taken it for granted that the
machine was supplied with the reasoning por machine was supplied with the reasoning power and
adaptability which they lacked themselves and working upon that assumption attached them to the cows in any old way quite regardless of the amount of pressure or
vacuum being applied, or of the fit of the teat in the vacuum being applied, or of the fit of the teat in the pected the machine to milk the cows thoroughly without doing any damage. Such an attitude does not tend to best results. On the other hand if the operator is a careful mart and somewhat of a mechanic, studies the one to suit the other giving the machine the proper attention at the proper time, then good work should Provided that a good and steady power is obtainable to poive trouble is in mot milking milker is most liabl doing damage to the teats of the animals, particularly if the teats are abnormal in size or shape. Another point that might be objected to is the fact that with
some machines it is impossible to keep individual cow's records. Regarding the first point, it is as well to say that no machine will milk all cows absolutely clean and it is always well to practice stripping atter all of the the machine is milking the succeeding cow the time tha even though it is necessary still the machine may be considered efficient for it draws the bulk of the milk very quickly. Damage to the teats or udder, if present pressure, too rapid pulsation, or careless attachment of pressure, too rapid pulsation, or careless attachment on intelligent operator. While weighing of each individual cow'smilk is or should be of importance to every farmer who would use a milking machine the class of farme be dropped during the present scarcity of labor
After such a resume of the unsatisfactory possibilities of the mechanical milker we come to a discussion of the active man the mechanical milker can be depended and to reduce time necessary to do the milking at least 50 per cent. and the larger the herd and more convenient the stable the greater the reduction. It relieves the armer of the heavy drudgery of milking and enables for him to milk by hand. With reasonable care the machines can be expected to last upwards of ten years, Subject to the same conditions the repairs are not ex first cost is not so high but what they are now con herds of frofitable under present labor conditions for haturally, the most economica or more cows though, with the larger herds. They only reapien would be $10.3 \mathrm{~h} . \mathrm{p}$. engines or motors, depending upon the make
of the nu. his power can always be used to advantage for other purposes such as running separators, pumping water, pulping roots and grinding grain. It is impossible for us to give the actual cost of power as we have it in the
form of clectricity which is not available to the large One of the important factors to be considered is the
proper are of the machineasregards washing. Unless this proper care of the machineas regards washing Unless thi
is properly attended to a poror quality of milk will result.
Briely the procelure should be as follows: Immediately



[^0]"THE FARMER'S ADVOCATE.
Founded 1866
tubes should be taken apart and given a thorough scrub-
bing. Under no circumstances hhould any part of the
machine which comes in contact with the milk be allowed machine which comes in contact with the milk be allowed The general consensus of mininiongs.
and men at experimental stations appears to be that manufacturers of mechanical milkers have gotten the
mechanism to a point where the mechanism to a point where the milk can be extracted
without in any way injuring the udder of the cows prowithout in any way injuring the udder of the cows, pro-
vided reasonable care is taken in keeping the machine so adjusted as to give the proper amount of pressure or vacuum. With most makes the mechanism is
reasonably simple. Of the eight diarymen whose reasonably simple. Of the eight diarymen whose
opinions regarding mechanical milkers are expressed opinions regarding mechanical milkers are expressed
in this article, six would not care to be without the milker under the present labor scarcity. One who is not at present using his machine found that it did not injure milking. Of course, it depends on the quality of milkers one is able to secure. It is generally conceded by users of machines that while they are not preferable to good dairyman is able to hire, and that they average milker a ducer to keep a greater number of cows. Two hundred and forty-three members of a cow-testing association in Wisconsin use mechanical milkers, and of this number
only thirteen are dissatisfied with the work. This onves to prove are dissatisted with the milker is practical and that the milk. There necessarily deteriorate the quality o milkers on the market which are proving satisfactical Some dairymen prefer one make and some another We doubt if it can be said that there is any best machine it appears to be a case of pay your money and take your choice. One thing is certain, the mechanical milker is
here to stay.

## Holstein Sale at Dunbarton.

 cattle, the property of Col. Marshall. Dunbartolstein disposed of by auction at farshy good prices. Thehighest priced animal was Prince Bonheur Abberert highest priced animal was Prince Booneur Abbekerk,
a two-year-old bull which went to the bid of J. Todd, a two-year-old bull which went to the bid of J. Todd,
of Aginoourt for $\$ 500$. The highest priced female
was Winnie Meren Brown's Corners, for $\$ 380$. The twenty-one animals sold including a number of hiefers and calves averaged
$\$ 175.35$. The following is a list of the for $\$ 100$ or over, together with the names and addresses of the purchasers Edgemont

Teake Ormsby Fern, F. Siaden.........i.v.......
Beauty Ormsy Korndyke, C. Holborn, Shedden
Princess Dorliska Ormsby, A. D. Turner, Shed Korndyke Belle Zeeman, J. McMillan, Glan Louise Abbekerk, W. H. Cohoon Louise Ormsby, J. Campell. Bessie Beets Hartog, T. E. Bedgavood Salla Mercedes, L. McKenzie, Pt. Stanley Clothilde Dorliska May, R W. Bedford Chat Dorliska Wayne, J. Garton, Springfield Calamity Brookbank Hengerveld, R. W. Bedford. Verstella Wayne 2nd, J. McMillan....
Ida Colantha Dorliska, R. W. Bedfo Maria Colantha, C. Millson, Wilton Grover Maria Colantha, C. Millson, Wilton Gro Emma Wayne Houwtje, R. W. Bedford.
Minnie Colantha Mercedes, J. McMillan Lizzie Korndyke, R. F. Armstrong, Tills Delaware Beauty 2nd, R. W. Bedford Grace Fayne Ormsby, J. Sanderson, St. Thomas firld Milde's Beauty Posch, S. Dawes, Spring Mis
 Brownie, E. Crummer, W. A. Hepburn, Union. Mildred Lady, Jil Campbell
Rose De Kol Tilla, R. W. Bedford Alice Ormshy, J. Garton.
Mete May Pontiac, C. C. Pettit, St. Thomas Ormsby Beauty Lass, R. Willis, Lambeth
Sunnybrook Mary Segis, F. Cris Bull calf, W. J. Thompson, Pt. Dover Segis King Fayne, R.H.Futcher, Middlemarch
Lady Peg, W. H. Cohoon Laura Peg, W. H. Coho Coon Maysies Pietertic Faysies Pietertje, Van Zant Bros., Elora.
Dyne King Veeman, F. W. Miller. Duchess Ormsby Calamity, L. Bexg, St. Thomas
Axie Veeman Calamity N M. Axie Veeman Calamity, N McGuggan, Shedden
Pauline Countess De Kol, J. Carmichael, Ilder-
Dina Howtje Netherland, F. W. Miller

## POULTRY.

Tuberculosis: Its Nature, Symptoms and Methods of Eradication.
Valentine Dutchland Colantha, J. Nixon, Cobourg 200
Perfection's Tol
280 Perrection's Toronto Queen, R. W. E. Burnaby..., 340
Winnie Mercena Fayne, Mr. Anning Brown's Ormsby Segis Siepkje, Mr. Finlayson, Agincourt. 380 Lakeview Valentine, J. Nixon....
Emma De Kol Pauline, J. Nixo Emma De Kol Pauline, J. Nixon …....................... 17 Heifer, J. Nixon....................................... 17 Dione Mercena K Prince Bonheur Abbekerk, J. Todd Agincour........ 140 Madeline Segis Siepkjee, Mr. Nuttall, Pickering.
 Perfection's Siepkje Fayne, W. Turner, Pickering. 100
Beulah Ononis Fayne, Galloway Bros., West Hill.. 165

## Elgin County Holstein Breeders'

 Sale.Pure-bred Holstein Breeders' Club the Elgin County Thomas, December 18. While fairly haigh prices were paid for some individuals and some brought all they those wishing to lay the foundation of a pure-bred herd real bargains. The crowd was not large, and bidding was dragigy at times. A few of the animals would, no but, taking the entire offering into consideration, they were weig-framed individuals and showed indications of being capable of heavy production. Many of the cows and heifers were in calf to such sires as King Segis De Norman and Finderne King May Fayne, all of which cluding a number of young heifers, averaged around Wayne Houwtje, was consigned by D. Caughell and bulls were in the offering, and they averaged $\$ 140$, Among the consignors to the sale wee G. S. S. Butler,
F. Carr, E. G. Gibert, G. I. Willis, H. C. Holtb, L. Locke, R. Sanders, E. Siple and H. A. Copeland. These purchasers and warrant their return to a future sale. The following are the names of the animald sold, to.
gether with the names of the purchaser and the price

## Teake Ormsby Hartog, J. Campbell, London

Teake Orsmby De Kol, F. Sinden, Belmont........... $\$ 165.00$
Thomas
Miss Teake Korndyke, E. Crummer, Blenheim_...
180000
Korndvke Ormshy rndyke Ormshy Teake, T. E. Bedggood,
Thorndale..... 105.00
many fockss, and is causing a heavy yearly loss. In
Bulletin 255, of the Ontario Agricultural College, Pro D. H. Jones, of the Bacteriological Department, gives its nature, symptoms and methods of the disease eradication. Not only is there a loss fromentrol and off, but disease is liable to cut down the egg production, Tuberculosis of fowls is produced by a small microsccopic organism which gains entrance to the system of the bird and multiphes in various parts of the body system. Bulletin, is to the effect that the organism on entering the body feeds on the body juices and develops and multiplies. In so doing it produces a toxin or poison which acts on the tissue cells surrounding them, causing a local disturbance, which finally results in de-
generation and death of the tissue cells so affected, and generation and death of the tissue cells so affected, and
forms a mass known as a tubercle. From these the bacteria pass in the blood to other parts of the body. These tubercles are usually pale yellow in color, somelike in texture. They vary in size from smaller than a pin-head to as large as an egg. These tubercles are most commonly found on the liver, spleen, intestines
and mesentery, although they may also be found on other parts of the anatomy
With a live fowl it is difficult to detect the disease in its early stages. As the disease develops, emaciation, paleness, listlessness, lameness, and reduction of egg layparatively easy to detect the disease in a bird which appear on the various parts. However theres which diseases which cause conditions of the liver, lungs and intestines similar to those of tuberculosisi, therefore to parts is necessary. The liver is the most commonly aftected organ. The liver of a tubercular bird is usually
softer, is larger and more easily torn than that of a healthy bird, and pale, yellow lumps or tubercles are found on its surface. When such a condition is found, on performing a post-mortem examination, it is a pretty small lumps forming on the spleen also make it irregular shape and frequently enlarged
sometimes happens that infection pets into taken, An apparently healthy bird may have the disease and be a spreader and a source of contamination. The fol-
lowing gives the methods of control and eradication as lowing gives the methods of control and eradication as
outlined in the Bulletin: Cards should be taken in buying new stock that birds are obtained only from flocks known to be free of
the disease. When once the disease gets established
in a flock it is difficult In a flock it is difficult to eradicate except by the most drastic measures. The quickest and most effective
method is to kill off all birds that have run with those proven to have the disease and to disinfect the entire
premises as thoroughly ds possible. New stock should
placed on the runs which had been used by the diseased flock, for a year or more had been used by the diseased have been thoroughly disinfected, may, of course, bey
used. The first thing to do in putting the poultry used. The first thing to do in putting the poultry walls, ceilings, floors and nest boxes of the roosts, walls, ceilings, floors and nest boxes of the houses
thoroughly clean with a hoe or other convenient im plement. Accumulated manure may be mixed with lime, spread on the land and plowed under. L.oose litter, pieces of boards or other valueless material shouse be completely burned. When this has been done the entire inside of the houses may be washed down with some good disinfectant, such as carbolic acid, one part or other disinfectants, in the strengths indaphtholeum manufacturers. Any of these may be put on by the spray pump. In place of these, quicklime in the form of whitewash may be used, prepared as follows: Slake the quicklime by adding water in the proportion of or by weight, sixty parts water to each quart of lime, of lime. The resulting dry wawder is hundred parts For use mix one quart of this with four hydrate of lime. This must be freshly prepared in small lots and used immediately. It is best applied by means of a spray if a spray pump is ithoy be put on with a brush or broom. through a fine sieve or the slaked lime should be put clogging of the nozzle. It is imporder to prevent crack and crevice and every particle of that every ered with the disinfectant. After disinfection be cov boards may be placed beneath the roosts to catch clean droppings, thus facilitating the work of future cleaning moisture from the droppings boards will absorb the moisture from the droppings besides adding to
fertilizing value. Disinfection of the carried out at intervals as long as houses should be emain in the flock.
it isimpossiblect the runs is a difficult matter, because with each minute the disinfectant come into contac be done is to comparty cor soir. The best that can slaked lime and plow under. Sow some quick-growin crop for green manure, lime and plow under again fected. The fact must be kept in mind, however, tha any tubercular fowls may be continually re-infecting the soil by voiding the tubercle bacilli with their drop pings; consequently, it would be impossible to keep the kept on that ground." so long as diseased fowls wer

## HOR IICULTURE.

## Fighting Enemies of the Orchard.

duce No. 1 quality of fruit, there is a continual fright with insects and fungous diseases. No sooner is one pest brought under control than a new one makes its to maintain a balance of nature. The decrease failure number of birds has had a lot to do with the preval the of insects in the orchard. New plants have also been imported, accompanied, in many cases, by scale insects
or other pests which did not do much harm in their native land owing to the presence of parasites. But, when parasites do not accompany the parasites. But, new insects increase rapidly; therefore the orchardist must ever be on the lookout for enemies orchardist rob him of his profits. A large staff is continually at work in the Dominion as well as in other countries studying the life history of the enemies of all farm and orchard crops, in an endeavor to find an efficient and the work is given in controlling them. An outline of Entomologist, G. Gordon Hewitt. A series of spraying experiments have been conducted in Nova Scotia in about thirty orchards for the testing out of different spray materials for the control of insects, and the report states: As a result of the large experiment it was use with lime-sulphur than arsenate of lead poison to weaker solutions of lime-sulphur are desirable." In Ontario considerable work has been done in investigating the work of plant lice affecting the apple. The green apple aphis is a troublesome plant louse which gives value of tobacco decoction considerable trouble. The extracts mixed with limesulp and commercial nicotin buds were about to burst was again demonstrated Hewitt en-fruit reports that the most important investigatio on-fruit trees carried on during the year in British of pear thrips, which fruit crop for a number of years in the Saanich Peninsula Vancouver Island." The main ife history of pear thrips under British Columbia con ditions were obtained, and the practical results of the spraying experiment exceeded all expectations as un for orchards which had almost ceased to bear well-cared of this insect. The most satisfactory spraying solutions were nicotine sulphate (Black Leaf 40), in combination with whale oil soap or Miscible oil. The codling moth is reported as being a troublesome pest in certain parts
of the Pacific Province in spite of every precaution of the Pacific Province in spite of every precaution
taken to prevent its introduction. However, it is becontrol to it. Fruitmen should not reass to successfully against orchard pests should not relax their fight

Decembi

A New Through th The New Since ever
Days for And I bri Space to wr
And faith i Hold me in
And sooth

Along the A bright
Beneath th The armies In dim,
But these a As thougl No Captain
No muste No muste
But every
With daw And every $n$
Around th Within my

They may n
Their way They never Yet in my lo
They mar My little or
Upon the Throu Can


A New Year's Eve Thought Through the ether clear, from the solemn The New Year beckons, and makes reply brought
Since ever men toiled, aspired, or thoughtDays for labor, and nights for rest; And I bring
Space to work in, and work to do,
And faith in that Hold me in honor and greet me dear, And sooth you'll find me a Happy Year
-Margaret E. Sangster.

## "F" Company,

Along the iron road of war A bright battalion wend Beneath the sun, beneath the stars-
My Company of Friends. The armies of the world go down In dim, grey legions led,
But these are marked mid the host
As though they walked in red.
No Captain leads, no watchword's passed, No muster call is heard,
But every morn I cry them "Hail!"
With dawning wind and bird.
And every night when silence falls Within my sheltered thoughts I light
They may not know the ranks they keep; They never meet except within

Yet in my love their lives are bound They march beneath my sta
My little company of friends
-In University Magazine.
Through the Eyes of a Canadian Woman in England.
TOVEMBER.-The "saddest month
of all the year" has come round of all the year" has come round
again, and the November of
as many more claims to that dole 1917 has many more claims to that dole-
ful title than the fact of its falling leaves and sunless days. Our gallant men on the western front have been fighting against fearful oddds, such been mud to the the tnees and constant rainy weather; Eng-
land has again been raided by the deadly land has again been raided by the deadly
Hun; Russia ie still disorganized, and hun; Russia is still disorganized, and now Italy is having her dark hour. In
spite of all this the optimist (and what
shat spheuld we do without him?) presents the silver lining to the cloud, and dwells upon the splendid gains of our men in Flanders;
the marvellous manner in which our air the marvellous manner in which our air
defences met the German raiders, thirty defences met the German raiders, thirty
of them on a recent attempt to attack, and prevented allof them from reaching London except two which did no material damage; the fact that the Russian navy have been at work destroying German ships; and that Italy's losses are greatly exagger-
ated by the enemy, for it is said they only ated by the enemy, for it is said they only
retired in order to assure themselves of a more strategic position, and will before who are being rushed to their assistance, be able to withstand the invasion. the meantime our legislators are preparing rationing of of aching winter by a systematic rationing of all foodstuffs, and we are in a last year. The allotment scheme proved most successful, and there is no scarcity
of potatoes or other verables. So let us join the optimist and say, as our fight,
ing men do, "Are we downhearted?"
i"No"

The Canadians, who have already given
such signal proofs of valor in France suchin distinguished valor in France, have
agere thes, They
were the first to break the forme into Passchendaele and occupy positios there. We are told that they were
obliged upon entering it, to form obliged upon entering it, to form a sore the Germans who seemed to spring up the Germans who seemed to spring up
from all parts. Furious hand-to-hand
encounters to encounters took place near a church,
Three times the Germans, with bull enacity, returned to the strubgle, for they had been given orders to take, that church and hold it to the death, and large numbers fell in the attempt. Then our
men had to fight from house to house and were compelled to shell the residence of the mayor. The Prussian major who had been in command there had made himself very comfartable in it, and was living in a dugout twenty metres below ground, consisting of three rooms panelled
with wood. Whentheydiscovered this nest a cup of coffee was still steaming on his marbletable, adressing case waslying open, a
map was laid out, and everything inconfusmap waslaid out, and everything in confusion testified to the haste with which he had ing from this retreat, the major had dropped his irron cross, and one of the Canadians picked it up. Nearly nine hours after our men had captured Gond-
berg, a little hamlet nearby, they came berg, a little hamlet nearby, they came
upon a "pill-box" which contained a surprise. When itsirion door swung back there
walked into the rain and the ofters of their staff waiting there, hoping for a counter-attack which would drive back the Canadians and set them free; but that did not happen and they were caught like rats in a trap. Glooom and hands and announced that they surrendered. The taking of Passchendaele will make an exciting story to tell in days to come. We are filled with pride that our men have made such a name for them-
selves, but the pity of it is that so many selves, but the pity of it is that so many
of them, in doing so, have been called upon to make the supreme sacrifice. An Eponlish moldier was speaking to me of
them only this morning and concluded with these words. 'We know what soldiers the Canadians are, for we have fought side by side with them!"

## S

 INCE last writing there have beenchanges in my ward in the hever changes in my ward in the hospital,
and some of the patients have gone on to convalescent homes. I was sorry to say good-bye to them, for they were a regret to say, was disliked by the other men. (Tommy never wants a "superior in the ward with him). They used to say in his presence, "We love our corporal,
nurse," in most sarcastic tones. Finally nurse, in most sarcastic tones. Finally He went down to the kit-room to pick out his belongings, and while he was out I happened to enter the ward. To my surprise I found all the men who were up and about working with nervous haste
polishing their shoes. Even one pale lad polishing their shoes. Even one pale lad were all so engrossed that they did not notice me until I e equaired, "Why the excitement about shoes? Are you all going to a party?" and I had to laugh heartily
when one of them, the ringleader, in when one of them, the ringleader, in
broad cockney, replied: "Our corporal's going away nurse, and this is his boot
polish. We love our corporal's boot polish!" In a few days some of these same men are to be sent to the con-
valescent home where the corporal went, valescent home where the corporal went,
and they will, I suppose, continue to make and they will, I suppose
life a burden to him.
It is a real pleasure to see these wounded men improving day by day, and I was so
thankful when I went in this morning to hear the poor lad, whose eyes have been bandaged so long (he was burned with
mustard gas, and may never recover his
sight) humming a tune. Now we have a
dear Canadian boy who has tren hat He is enjoying the clean, white bed. He
had not been in a bed compelled to snatch or weeks, but was in a shell-hole. He has told me he could his home in Alberta, to which he hopes he may have the good fortune to return Some day, "when the war is over." air for that happy time.

I $\begin{aligned} & \text { have had some very interesting con- } \\ & \text { versations lately with air-men, and } \\ & \text { enjoyed }\end{aligned}$ ensations lately with air-men, and young relative from Prince Edward Island, who has been flying in France for
the past seven months the past seven months. He was almost did not test to be of value as copy, and learned, that me fact which I have sinc that time seven Hun machines down in flyingmen he made constant use of teal belonging exclusively to that branch of the service, and I was obliged to ask him to explain as he went along. He flies a most fragile as well as the smallest and in use and some of his experieces wert wonderful to relate. Another acquaintance who is in the R. N. A.S. S. and who spent some months during the past sum coast, and has since been flying out of the big British base in France, has had equally wonderful experiences. His ma chine is the direct opposite of the machine mentioned, and is of the huge bombcarrying type, its mighty cargo being can be dropped with a momes which hand. He and his squadron have more than once, when on their way to bomb a German base, met an enerny squadron coming towards them for the same pur-
pose. These men both assured me that pose. These men both assured me that
we have the Hun "beaten to a frazzle" as far as air-warfare was concerned

Lhave already mentioned the difficulties of travel here at the present time.
Thousands of locomotives, vans and all kinds of rolling stock have been sent to France and the East, leaving this country greatly handicapped. Ware-
houses and yards are so piled up with freight that one never knows when noods shipped will reach their destination. Freight, or "goods trains" as they are termed here, have, of course, to give way to those carrying munitions and other war materials. War and the requirements of only only a quarter or former days. The authorities and news papers have been agitating for some tim a cessation or whe popular week-en travel, and many patriotic people hav
denied themselves the use of trains at any time except in cases of absolute necessity. Leave for the troops in England is now strictly forbidden if it calls for travel on the railways on Saturday, Sunday or left in railway employ and in are now of cases men on the retired list have agred taken up this occupation in order to do their bit.
I must close this letter with a quotaCramb irom one of the lectures of Professo an English college-who died in 1913 which I have been reading lately: "If the dire event of a war with Germany-if it
is a dire event-should ever occur, then shall be seen upon this earth of ours a onflict which, beyond all others, will re
all that description of the great $G$ reek

## leroes in battle with heroes,

And one can imagine the ancient mighty
deity of all the Teutonic kindred, throned
above the clouds, looking serenely down upon that conffict, upon his favorite locked in a death-struggle, smiling upon of the chism of that struggle, the heroism of the children of Odin the War-god!"

## The Teacher.

"The Ow.
THE Teacher (and be sure to spell the word with a capital "T"" sits at bobbing heads, light and dark, as they bend over the work in hand. There is a temporary lull, for it is writing, practice lesson, and the whole school is at work
making the continuous ovals and whirligigs that are the regulation dose for procuring proper arm-movement
ing a needed rest. It is is snatchoclock, and all day long she has been "hard at it," smiling, or frowning or raising her brows in surprise at the queerly-expressed opinions that betrayed sorm bing of the ideas that are taking untidy hair. For our teacher ity and she is ever on the alert for Ideas, knowing that ldeas count for so much more than the mere remembering of facts.
forty stirring children task to manage in all starres of deven of all moods and tired-and bit discouraged She is "only thiscouraged rural school, she thinks, "and results seem to come so slowly. What's the use? Why could it not have fallen to her lot o do some really worth-while work in Ah for some good genius, just at this point, to give her vision to see really see all the teachers in all the schools, all the little bobbing heads in all the thousands upon thousands of schools in all the world - white boys and girls, black, of the whole and then surely this one little eacher in one little rural school must catch her breath with the realization of her power. Surely then she must see chine that is moulding the whole fulure of chine that
the world.
"But that is setting the mothers and fathers aside, you say
But no. The fathers and mothers have been, to a great extent, moulded by the teachers of a former day, and the teacher mothers and fathers of the future Cut out all education-leave only the mother-
ing and fathering-and you will see what is meant.
Powerful? Yes, of tremendous power,
this teaching machine-this vast machine this teaching machine-chis vast machine out, not fabrics of wool and cotton, not hard, cold things of brass and steel and iron, but lives, aspirations, thought-the
thought that is the father of thought that is the father of Act, the inspiration that weaves dreams of goss-
amer that take form in glowing word and gleaming color and music fit for heaven, to the delighting and moving of earth's peoples.

Thought is the father of Act."-Think folk tell us that it was in the ithools of Germany that the sinister powers of that brilliantly clever land brewed the brew that has brought upon this beautiful world the most horrible horror that it has was right when he refused to was right when he refused to confound
the people and the Government of Germany as one, perceiving that the people have been but dupes of their Prussian military masters. I believe that it was a few minds-ambitious, callous, selfish, anxious only for more power and more
gain, that, during the long years, in-

Ronats.

Ordinary roasts of veal (stuffed where the bone is taken out) beef or pork, may prettily with bits of parsley or holly Serve on a hot platters with mashed potatoes or potatoes which have been pared and baked with the roast, all around. If mashed potatoes are used heap them in a neat border, dot with bits
of butter and sprinkle with paprika or pepper.

## Bread Sauce.

Serve with the chicken or hare. Cook 2 cups milk with $1 / 2$ cup fine breadcrumb an hour in the double boiler. Remove the onion and add 3 tablespoons butter and pepper and salt to season. Now take $1 / 2$ cup coarse breadcrumbs and brown them in a little butter. Put the sauce in a hot bowl, sprinkle the browned

## Baked Paranips.

Clean parsnips, split them in two and parboil, then drain, rub with butter and
bake in the oven until browned. Carrots may be cooked in the same way. If pre ferred, these vegetables may be boiled sauce.

## Canned Berry Pudding.

Butter a pudding dish, lay in a layer then kind, also a s sprinkling of sugar if needed. Continue the layers until the dish is nearly full. Bake about half an hour in a moderped cream or a meringue of with whipwhites. With each serving put a little hard sauce made of butter and sugar

## Fruit Pudding.

Beat the yolks of 4 eggs. Add 1 pint rind of a lemon, 1 teaspoon sar, grated seeded raisins. Mix all well, then add 1 quart rich milk. Bake in a very moderate
oven until firm in the centre. When the oven until firm in the centre. When the pudding has cooled somewhat beat the
whites of the 4 eggs dry, then beat in $1 / 6$ cup sugar and spread or pipeat in $1 / 3$ cup sugar and spread or pipe over the
top. Dredge with granulated sugar and
cook in a very moderate oven about 15 cook in a very moderate oven about 15

Pumpkin Pie Tarts.
Make pumpkin pie pastry and filling as usual, but cook as tarts. Before serving cover each with whipped cream,
slightly sweetened, with a grating of nutmeg over the top

## Doughnuts.

Mix a yeast cake and a half through $1 / 4$ cup lukewarm water, then stir in enough flour to make a dough. Knead the little
ball of dough until smooth, then drop it into a bowl of lukewarm water. In a cup grated maple sugar (or light brown sugar), $1 / 2$ teaspoon grated nutmeg, 1 tea-
spoon salt, 1 cup scalded-and-cooled milk, one-third cup melted shortening, and water. Mix all then without any of the a soft dough. Knead until smooth, then set to rise in a buttered bowl. When doubled in bulk, turn on to a lightly floured board and roll into a sheet $1 / 2$ inch and make into rings or "inch wide, When again light, fry in deep fat, which Bread flour, not pastry flour, should be used for these doughnuts.

Pare, quarter and core choice apples,
cut them in small cubes, and squeeze over them the juice of a aarge lemon to keep them white. A pint of apples will
be enough for an ordinary family. Add Mix all together with enough good salad dressing to moisten. Serve on lettuce or
celery tops. Nice with cold tongue or ham for supper.
Cranberry-and-Celery Salad. Cut large cranberries in bits with a
sharp knife and mix with an equal
quantity of crisp celery cut in bits. Mix
with a dressing made as follows: For 1
pint mix 1 scant half teaspoon salt, $1 / 4$
teaspoon paprika, 4 tablespoons olive oill,
1 or 2 tablespoons vincgar. Mix all well
together. Serve on lettuce or celery
leaves, or in bright green apples hollowed
out to male cuige

Fig Cukco.
2 Take one-third cup butter, 1 cup sugar 2 eggs, $1 / 2$ cup milk, $1 / 2$ teaspoon soda, $11 / 2$ cups flour. Mix as usual. Bake in filling. Sift confectioner's sugar with fig top, or cover with whipped cream flavored with orange or lemon extract. Decorate with bits of fig which have been cooked in thin syrup of sugar and water

## Devil's Food Cake.

Take $1 / 3$ cup butter, $11 / 2$ cups sugar, 4 squares chocolate, 4 teaspoons boiling water, 2 tablespoons sugar, 3 beaten eggs,
$1 / 2$ cup milk, $13 / 4$ cups flour, 3 level tea1/2.cup milk, $13 / 4$ cups flour, 3 level teato a cream and beat in the $1 J / \mathrm{z}$ cups sugar. Melt the chocolate, add the boiling water and the extra sugar, and stir water may be needed), then beat into the first mixture. Add the eggs, then alternately, the milk and flour sifted sheet or in layers, putting whipped cream on top and between. This is a very good cake in spite of its name, and
may be made to look quite festive by may be made to look quite festive by

## Making Holiday Candy at Home.

saving. Then much these days about candy by making it at home? Try these. Pour two
Pour two tablespoonfuls of strained add two cupfuls of sugar and two table spoonfuls of butter. Boil slowly until syrup dropping from a fork taken out of
the hot liquid leaves a fine thread behind it. Pour the boiling syrup over the whites of two eggs that have been beaten to a
stiff froth and add a teaspoonful of almond extract. Now beat uotil of cold and just as stiff as you can handle and drop in spoonfuls on a buttered pan or a sheet of paraffin paper. A nut-
meat pressed into the top of each drop the candy even nicer.

## eet Puffs.

slices, cover with half a cupful into thin and cook until tender. Drain and to the liquid add two cupfuls of sugar. Whe this has boiled for four minutes add hal pieces. Cook to 240 degrees Remal from the fire and let stand unti. Remove to steam. Beat the salted whites of two eggs to a stiff froth and pour the mixture over it, beating thoroughly. Because this mixture is foamy and sets quickly small portion at a time in a teaspoon, and, with a pecan nut, push the mixture from the spoon on to waxed paper, leaving
the nut meat imbedded in the puff.

## Maple Pralines.

Break one pound of soft maple sugar
pieces and add three-fourths in pieces and add three-fourths cupful Bring to the boiling point, and let boil until a soft ball may be formed when mixture is tried in cold water. Remove
from fire, add two-thirds cupful of from fire, add two-thirds cupful of
English walnut meats cut in small pieces, and beat until creamy. Dro
from tip of spoon in piles (workin. on a buttered paper or board covered with paraffin paper.

## Fig Favorites.

Select the best quality of figs and
steam until soft, then make an incision in each lengt hwise and stuff with chopped nut meats. Close and place on a buttered teaspoonful of cream of tartar Boil until it will make a hard ball when dropped into cold water, flavor with a little vanilla,
and then pour over the stuffed figs. When nearly cold mark off into squares. Stuffed
dates can be used in place of the figs if

## Walnut Bonbons

Place in a saucepan one cupful of
granulated sugar, one-half cupful. of
golden syrup and one-half cupful of granulated sugar, one-half cupful of
golden syrup and one-half cupful of
water, and a pinch of cream of tartar.
Boil until it makes a firm ball when
tested in coll water, then add one-
half teaspoonful of anilla and one-half
cuppul of English walnutat meats chopped
fine Pour fine. Pour over the beaten white of one
begins to harden drop on halved English
wainuts and press a half nut on the top

## .

Stuffed Dates.
Wash dates, split open, take out the stones and fill the cavities with nuts.
Roll in powdered or granulated sugar

## Sea Foam.

Three cups brown sugar, $1 / 2$ cup threads fly well from fork; then pour the mixture over the well beaten whites of two eggs; flavor, then beat and beat
until stiff. Drop from spoon on to buttered until stiff. Drop from spoon on to buttered
platter. Let stand over night before platter. Let stand over night before

## Butter Scotch.

 Two pounds New Orleans sugar, 2pints water. Boil, addding 2 tablespoons
butter. Add lemon juice or any extract butter. Add lemon juice or any extract
liked to flavor. Drop into water to test crispness, and when ready pour into buttered pans.

## Candied Popcorn

Boil good molasses for 25 or 30 minutes. Dip the popped corn into this and press Diped
Dipped Nuts or Fruit.
3 cook water, $1 / 4$ teaspoon cream of sugar, until it taffies in cold water. Take off the fire and add a few drons of lemon extract or other flavoring. Dip the nuts or greased tin.
Velvet Molasses Candy
Mix together 3 cups sugar, 1 cup boiling water, 3 tablespoons vinegar, and 1 cup
molasses. Place on the stove as it begins to boil add $1 / 2$ teaspoon cream of tartar. When mixture becomes brittle when a little or it is tested in cold water add $1 / 4$ teaspoon soda and $1 / 2$ cup melted pan. Take in bits whe on a butcere pull as for ordinery mold, an This candy may be flavored with i teaspoon vanilla, or $1 / 2$ teaspoon lemon
or raspberry extract.

## Any Mother to Any Son.

 by constance green.His hard fight to
Nothing can harm him now,
Earth's course is run.
For when he reached his bourne
Life claimed him, so that
Never knew Death.

## God stretched His mighty arm

ook this tired child of His,
Plunged him in Lethe's stream Purging away
In the cool spraries
Stripped off earth's swaddling bands So that he might fulfill
His destiny

How dare I then repine
Through my alloted span
Shall I abide.

## Till on my waiting ear

Piercin, D Death's blur
Life's
Life's trumpet call
London Chronicle,


Founded 186e
A Story of the Star.
It was scarcely daylight as Jonah swit. y made his way along the broad ront-
that led by the Inn. The man was midde. aged, tall and strongly built; he wore a loose, Alowing cape and carried a wore a
herd's staff. The face was singlat herd's staff. The face was singularty at-
tractive. Kindliness looked forth tractive. Kindliness looked forthy from
the dark eyes, and the heavy beard could the dark eyes, and the heavy beard could
not conceal the tender, benignant pression of the mouth. At a glance an who has would have said: "This is a man God"-which was true. Nature and to related to Micah, the prophet, wasely
Israelite, burdened with Israelite, burdened with his people's woes,
who daily-hourly ing of the long-promised for the com. days were spent caring for hissiah. His he was a shepherd and was now on his way to his flock.
Although the man walked rapidly them as a noticeable anxiety in the quick glances he gave from side to side, which longed-yet was reluctant- for what he he came nearer to the Inn, to meet. As from the road, there darted fort frow the barn near the house a boy of twelve tall for his age, his dark, handsome fae glowing with excitement, his form trem-
"Father!" he cried, flinging to one side herd's staff, then throwing his rved shep. the man's neck. "Oh, father I hount thou wouldst never comel See hem been ready for hours"-and he pointed to his bundle-"I have not slept at all since midnight I have been kneeling by ing for the Star; why does it not searchHe looked up eagerly into his comer? face. Before the question could answered he again began talking excited ly: II it appears to-night, out on the nothing to hide it se shall there will be from the moment the first star watching This is the day to which I have looked forward all my life. Oh, I am so happy!" Suddenly, realizing his father's silence, the boy drew back. Then Jonah spoke reluctantly, with evident pain: "My son,
thou canst not go." "Not go!" echoed the bewildered boy: I was hast promised for years that when hills to watch the flocks. Am to the twelve, tall and strong? Have I not been faithulu to the mistress of the Inn where I have worked? Already the day's labor is done; the cattle are fed, the barn is swept and cleaned. Nay, father, thou Tears springing to his eyes, close to his breast the shepherd drew the boy. "My Peter, since thy mother went to God Inen thou wast a little lad of three, have not cherished thee as the apple of mine ing has come before thee but my God ond my duty; tell me thou believest this?" Again the boy bent his head. "Our faithful Miriam has aged and is still weakened from the long sickness, so that but hired help to care for her. Thot I would have done to let thee go my child. But at sundown word came that Isaac, who had promised to do thy tasks, was
stricken with fever unto death. All stricken with fever, unto death. All
night have I gone from house to house, night have I gone from house to house,
seeking some one to fill thy place-for it is the tax season and the Inn's work must be done - but no one could I find. What more is left that I can do, my son?" and tenderly he stroked the boy's cheek.
For a moment's space there was silence; For a moment's space there was silence:
then in a stifled voice Peter spoke, as he fell upon his knees. ell upon his knees
I cannot go."
With infinite tenderness Jonah laid his hand upon the boy's headd: "The God of our fathers bless thee and make thee a Peter was scarcely
father's embrace, nor did he heors of his "Would that I could stay and thou couldst go." He stood motionless until Jonah's cally he picled ine distance. Mechanicaty he picked up the bundle he had put reached for his staff, Instinctively he emembrance of the hours he had taken from sleep and toiled to make it beautiful and worthy of his great journey in some way comforted him. Holding the precious staft close to his breast, on which the low tears dropped, he climbed the narSwiftly the days passed, for Peter

Decembe


Ronsta.
Ordinary roasts bf veal (stuffed where the bone is taken out) beef or pork, may prettily with bits of parsley, or holly potatoes or potatoes which have been pared and baked with the roast, all around. If mashed potatoes are used heap them in a neat border, dot with bits
of butter and sprinkle with paprika or pepper.
Bread Sauce.
Serve with the chicken or hare. Cook 2 cups milk with $1 / 2$ cup fine breadcrumbs an hour in the double boiler, Remove the onion and add 3 tablespoons butter and pepper and salt to season. Now take $1 / 2$ cup coarse breadcrumbs and brown them in a little butter. Put the sauce in a hot bowl, sprinkle the browned

## Baked Paranips.

Clean parsnips, split them in two and parboil, then drain, rub with butter and bake in the oven until browned. Carrots may be cooked in the same way. If preferred, these vegetables may be boiled,
sliced, and covered with a hot cream

## ance.

Canned Berry Pudding
Butter a pudding dish, lay in a layer of bread, cut in thin slices and buttered, kind, also a sprinkling of sugar if needed. Continue the layers until the dish is nearly full. Bake about half an hour in a moder ate oven. Serve hot, covered with whip ped cream or a meringue of beaten egg whites. With each serving put a little hard sauce made of butter and sugar

## Fruit Pudding.

Beat the yolks of 4 eggs. Add 1 pint soft breadcrumbs, 1 cup sugar, grated
rind of a lemon, 1 teaspoon salt rind of a lemon, 1 teaspoon salt, 1 cup
seeded raisins. Mix all well, then add 1 quart rich milk. Bake in a very moderate oven until firm in the centre When the pudding has cooled somewhat beat the whites of the 4 eggs dry, then beat in $1 / /$ cup sugar and spread or pipe over the cook in a very moderate oven about 15

Pumpkin Pie Tarts.
Make pumpkin pie pastry and filling ing cover each with whipped cream, ing cover each with whipped cream,
slightly sweetened, with a grating of nutmeg over the top
Doughnuts.
Mix a yeast cake and a half through $1 / 4$ four to make a dough. Knead the litle ball of dough until smooth, then drop it into a bowl of lukewarm water. In a mixing bowl beat 2 eggs light. Add $9 / 4$ sugar), $1 / 2$ teaspoon grated nutmeg, 1 tea sugar), $1 / 2$ teaspoon grated nutmeg, 1 tea-
spoon salt, 1 cup scalded-and-cooled milk, one-third cup melted shortening, and the ball of sponge without any of the water. Mix all, then stir in flour to make set to rise in a buttered bowl. When doubled in bulk, turn on to a lightly
floured board and roll into a sheet $1 / 2$ inch thick. Cut in strips nearly an inch wide, and make into rings or "twisters." When again light, fry in deep fat, which must not be too hot, until light brown.
Bread flour, not pastry flour, should be Celery-and-Apple Salad.
Pare, quarter and core choice apples,
cut them in small cubes, and squeze over them the juice of a iarge lemon to keep them white. A pint of apples will
be enough for an ordinary family. Add Mix all together with enough ry, sliced dressing to moisten. Serve on lettuce or celery tops. Nice with cold tongue or
ham for supper.

## Cranberry-and-Celery Salad.

Cut large cranberries in bits with a
sharp knife and mix with an equal
quantity of crisp celery cut in bits
quantity of crisp celery cut in bits, Mix
with a dressing made as follows: For 1
pint mix 1 scant half teaspoon salt, $1 / 4$
teaspoon paprika, 4 tablespoons olive oil,
1 or 2 tablespoons vinegar together. Serve on lettuce or celery ut to make cups.

Fig Calke.
Take one-third cup butter, 1 cup sugar, 2 eggs, $1 / 2$ cup mill, $1 / 2$ teaspoon soda, 1 $11 / 2 \mathrm{cups}$ flour, Mix as usual. Bake in two layers and put together with fig top, or cover with whipped cream flavored with orange or lemon extract. Decorate with bits of fig which have been cooked in thin syrup of sugar and water.

## Devil's Food Cake.

 Take $1 / 2$ cup butter, $11 / 2$ cups sugar, 4squares chocolate, 4 teaspons boiling $1 / 2$ cup milk, $13 / 4 \mathrm{cups}$ flour, 3 level tea$1 / 2$ cup milk, $13 / 6$ cups flour, 3 level teaspoons baking-powder. Beat the butter sugar. Melt the chocolate, add the boiling water and the extra sugar, and stir
and cook to a smooth paste (a little more and cook to a smooth paste (a little more
water may be needed) then beat into water may be needed), then beat into
the first mixture. Add the eggs, then alternately, the milk and flour, sifted with the baking powder. Bake in one
sheet or in layers putting whipped cream on top and between very good cake in spite of its name, and may be made to look quite festive by sticking a sprig of holly on top.

## Making Holiday Candy

 at Home.We hear much these days about savidy by making it home? Tristmas Honey Drops.
Pour two tablespoonfuls of strained honey into a cupful of boiling water and add two cupfuis of sugar and two tablesyrup dropping from a fork taken out of the hot liquid leaves a fine thread behind it. Pour the boiling syrup over the whites of two eggs that have been beaten to a stiff froth and add a teaspoonful of almond extract. Now beat until it is cold and just as stiff as you can handle
and drop in spoonfuls on a buttered or a sheet of paraffin paper. A nut meat pressed into the top of makes the candy even nicer.
Beet Puffs.
Cut one medium-sized beet into thin slices, cover with half a cupful of water
and cook until tender. Drain and to the liquid add two cupfuls of sugar. When this has boiled for four minutes add half a cupful of the cooked beet cut into small pieces. Cook to 240 degrees. Remove from the fire and let stand until it ceases to steam. Beat the salted whites of two eggs to a stiff froth and pour the mixture
over it, beating thoroughly. Because this mixture is foamy and sets quickly t must be handled rapidly. Take a small portion at a time in a teaspoon, and, with a pecan nut, push the mixture from the spoon on to waxed paper, leaving
the nut meat imbedded in the puff.

## Maple Pralines.

Break one pound of soft maple sugar of milk and one teaspoonful butter. Bring to the boiling point, and let boil mixture is tried in cold water Remove from fire, add two-thirds cupful of English walnut meats cut in small pieces, and beat until creamy. Drop
from tip of spoon in piles(working quickly) on a buttered paper or board covered with paraffin paper.

## Fig Favorites.

Select the best quality of figs and
steam until soft, then make an incision in each lengthwise and stuff with chopped nut meats. Close and place on a buttered one-half cupful of water, and one-fourth easpoonful of cream of tartar. Boid
until it will make a hard ball when dropped into cold water, flavor with a little vanilla, and then pour over the stuffed figs. When
nearly cold mark off into squares. Stuffed nearly cold mark off into squares. Stuffed
dates can be used in place of the figs if

## Walnut Bonbons.

Place in a saucepan one cupful of
granulated sugar, one-half cupful of golden syrup and one-half cupful of Boil until it makes a firm ball when half teaspoonful of vanilla and one-half
cupful of English walnut meats chopped cupful of English walnut meats chopped
fine. Pour over the beaten white of one
begins to harden drop on halved English walnuts and press a half nut on the top

## Stuffed Dates

Wash dates, split open, take out the stones and fill the cavities with nuts.
Roll in powdered or granulated sugar.

## Sea Foam.

Three cups brown sugar, $1 / 2$ cup water, 1 tablespoon vinegar; boil until he mixture over the well beaten whites of two eggs; flavor, then beat and beat until stiff. Drop from spoon on to buttered
platter. Let stand over night before platter. Let stand over night before pating you can wait.

## Butter Scotch.

Two pounds New Orleans sugar, 2 butter. Add lemon juice or any extract liked to flavor. Drop into water to
test crispness, and when ready pour test crispness, and
into buttered pans.

Candied Popcorn
Boil good molasses for 25 or 30 minutes, Dip the popped corn into this and press

Dipped Nuts or Fruit
Cook together 3 cups granulated sugar until it taffies in cold water. Take off the fire and add a few drops of lemon extract or other flavoring. Dip the nuts or
fruit rapidly, placing each at once on a fruit rapidly,
greased tin.
Velvet Molasses Candy.
Mix together 3 cups sugar, 1 cup boiling water, 3 tablespoons vinegar, and 1 cup as it begins to boil add $1 /$ te, and as soon of tartar. When midture becomes brittl when a little of it is tested in cold witt add $1 / 4$ teaspoon soda and $1 / 2$ cup melted butter, mix and pour out on a buttered pan. Take in bits when half cold, and This candy may be flavored with i teaspoon vanilla, or $1 / 2$ teaspoon lemon

## Any Mother to Any Son

 constance grems.lay him down to rest,
Mothing can can harm whim now,
For when he reached his
Drew his last breath
Drew his last breath,
Life claimed him, so that he
Never knew Death.
God stretched His mighty arm
Took this tired child of His,
Raised him up, shriven;
Plunged him in Lethe's stream,
Purging away
In the cool spray
Stripped off earth's swaddling bands
Setting him free
So that he might fulfill
His destiny
Calm and dry repine
Calm and dry eyed
Through my alloted span
Shal! I abide.
Till on my waiting ea
Sweetly shall fall,
Piercing Death's blurring mists,
Life's trumpet call

## -London Chronicle

Smiles.
Missed a Few. - Beatrice - "Is it true
that sailors have a girl in every port?"
Midshipman Harold. - "Well, p'd hard-
ly say that - there were several places we didn't touch on our cruise."-"Judge." lady candidate for training for farm
work): "And are you fond of animals
horses and horses and cows?" Candidate: IVell,
no-not very," Member of Committee:
"But I'm afraid that's rather necessary:" Candidate (brightly resolute):
"Oh, but I should try not to think about
them."

FOUNDED 1866

## A Story of the Star.

It was scarcely daylight as Jonah switt that led by the Inn. The man broad road aged, tall and strongly built; he wore loose, flowing cape and carried a she herd's staff. The face was singularly at tractive. Kindliness looked forth from the dark eyes, and the heavy beard could pression of the mouth. At agnant ex observer would have said: "This is a man who has lived near to Nature and to God -which was true. Jonah, closely related to Micah, the prophet, was an who daily-hourly-looked people's woes, ing of the long-promised Messiah. days were spent caring for his sheep, for he was a shepherd and was now on his way to his flock.
Although the man walked rapidly there glances he gave from side in the quick glances he gave from side to side, which
showed that he was looking for what he longed-yet was reluctant-to what he he came nearer to the Inn, a stone's throw from the road, there darted forth from thell for his age, his dark, handsome face glowing with excitement, his form trembling with expectancy.
"Father!" he cried, flinging to one side his bundle and a wondrously carved shepthe man's neck. "Oh, father, I thought thou wouldst never come! See, I have been ready for hours"-and he pointed
to his bundle-"I have not slept at all; since midnight I have been kneeling by my window, looking at the sky, search-
ing for the Star; why does it not come? He looked up eagerly into his father's face. Before the question could be ly: "If it appears to-night, out on the hills, we shall quickly see it; there will be nothing to hide it. I shall be watching This is the day to which star glimmers. forward all my life. Oh, I am so happyll Suddenly, realizing his father's silence,
the boy drew back reluctantly, with evident pain: "My son, "Nou canst not go.
"Thou hast promised for years that when I was twelve I should for years that when hills to watch the flocks. Am ith the twelve, tall and strong? Have I not been aithul to the mistress of the Inn where is done; the cattle are fed, the barn is swept and cleaned. Nay, father, thou canst not mean what thou hast said." Tears springing to his eyes, close to his
breast the shepherd drew the boy. "My Peter, since thy mother went to God Inen thou wast a little lad of three, have. eye?" The boy bent his head. "Noth ing has come before thee but my God and
my duty; tell me thou believest this?" my duty; tell me thou believest this?" faithful Miriam has aged and is still weakened from the long sickness, so that I have dreaded to leave her with none but hired help to care for her. That I
would have done to let thee go, my child. would have done to let thee go, my child.
But at sundown word came that Isaac, who had promised to do thy tasks, wall night have I fever, unto death. house, seeking some one to fill thy place-for it is the tax season and the Inn's work must be done-but no one could I find. What more is left that I can do, my son?" and tenderly he stroked the boy's cheek. then in a stifled voice Peter spoke, as he fell upon his knees:
"Thou art right as always, my father; Cannot go."
and upon tenderness Jonah laid his hand upon the boy's head: "The God of
our fathers bless thee and make thee a shepherd of His flock." Peter was scarcely conscious of his
ather's embrace, nor did he hear the low
'Would "Would that I could stay and thou couldst go." He stood motionless until Jonah's cally he picked up the bundle he had put cally he picked up the bundle he had put
together so joyfully. Instinctively he reached for his staff; as he touched it the remembrance of the hours he had taken from sleep and toiled to make it beautiful and worthy of his great journey in some
way comforted him. Holding the precious way comforted him. Holding the precious
staff close to his breast, on which the staff close to his breast, on which the
slow tears dropped, he climbed the narlow stairs and threw himself upon his bed.

## December 27, 1917

THE FARMER'S ADVOCATE.

Ahorked stessed work! God's most helpful gift! It weakens the sting of disappointment; it holds the promise of glad ful-
filment. For nearly a week lodgers had filment. For nearly a week lodgers had
been coming to the Inn in greater numbeen coning to the Inn in greater num-
bers, and now was due the last tax day.
From early sunnise, throughout the livelong day, travelers came in seemingly
endless number; some for a meal and others for a night's rest.
As twilight began to fall the mistress
called Peter, saying: "We called Peter, saying: "We cannot make
room in the Inn for even one more. If other travelers come they must be turned away
The boy had just finished his last task in the barn. He had thrown down fresh straw hor eachi
the head, smoothed that one's side, and
knew that every manger was sweet and clean. As he stood leaning against the barn, As he stood leaning against the barn, he said pityingly; " where will they sleep to-night?
Nearer they came. The woman, young and beautiful, seemed scarcely able to drag one foot after the other. The man,
his arm thrown around the woman's shoulder, tenderly supported her, seeming almost to carry her.
Peter hurriedly began to speak-and stopped short, his heart beating, his
throat throbbing. The woman had raised her head, and, looking in his face, Peter never forgot that smile. All motherhood was there, quick sympathy, deep tenderness and love. In that smile he seemed to feel his dead mother's arms about him, to hear her voice whispering in his ear: "I know it all, my son.
Grief endureth but a while, joy cometh in the morning.'
in "the morning. tell them they must go," the boy murmured to himself. Then
without a word or look he turned and ran quickly down the road. called him in and plied him fistress questions. "What is it makes this man and woman so different from the other travelers?
When I said, 'There is no room in the Inn,' they meekly bowed their heads and curned to go. Why did I not let them could lie in the manger?" "They are in the manger!" Peter exSuch qaickiness thrilled through him
that he trembled, unknowing he had done that he trembled, unknowing he had done
his best for her. Not knowing why, he his best far her. Not knowing with the softest hay. He recalled how back and forth he went, making the lowly bed as
best he could--and She was lying there. best he could-and She was lying there.
It was close upon midnight, but Peter could not rest; his heart and brain were
in a tumult. So he went forth to look in a tumult. So he went forth to look
up into the broad, fathomless sky, searching as ever for the Star. Again and
again he walked around the low-lying barn. "Oh, if he could but have given her his bed!" But that the mistress had utterly forbade. "Onen whispering to
himself he said: "Once more $1 / 1$ go and himself he said: "Once more lie go and
see that all is well, and then lie down and sleep.' he stopped. "What was that sound?" Again it came-a low cry, an infant's
cry. Wondering and amazed he fled to his room and soon was in a troubled sleep. seemed but a moment when he woke Seemed rom was flooded with a soft, shim-
Hering light mering light. He sprang to the open
window. As far as the eye could see was the same silvery radiance. Involuntarily he looked to the hills where his father
and the other shepherds were seated on the ground, their flocks about them. Here the shining glory was so int
that his eyes were almost blinded.
As with bated breath he looked he saw
that this ineffable radiance surrounded angelic beings of indescribable beauty and
majesty. Each glorified one irradiated an atmosphere of peace and helpfulness so uplifting that the boy's very sooul
seemed to sing with happiness. In tones whose triumphant joy reached and pene-
trated Peter's heart the angels spoke to the affrighted shepherds: great joy. In bring you glad tidings of
In Bethehem of Judea is
born this day a King who shall redeem His people,"
In voiceless ecstasy Peter fell upon his knees. When suddenly there was with
the angels a multitude of the Heavenly
host praising God, and saying:
earth peace, grood will toward
Floating, swaying, they filled the sky, to the enraptured boy. Faith and Hope, with arms eutwined, smiled an him as as they passed. "The joy of gratitude,",
breathed one; "The bliss of sharing," whispered another; and one spoke, whose face shone with such white radiance that
the child veiled his eyes: "I am Service; my holiest name is Love. I am thine own Angel, Peter, and will never leave
thee."

As suddenly as they came the Heavenly "But what is that golden gleam far, far

Breathless, the boy leaned from the
window. The light slowly focused, and window. The light slowly focused, and
behold! it was a Star, wonderful in magnitude, resplendent in glory, gleaming with a splendor no tongue can
on it moved unfalteringly.
Trembling in every limb Peter watched As he looked a cry broke from course for lo! the Star was broke from his lips, above the manger where She was plised plory, a golden stairway a wondrous lory, a golden stairway, as it were, by
which to climb to God. Then a light illumined the boy's face, his eyes shone, his breath came fitfully, exultatio
Gilled his being; for now Peter knew.
With low, whispering words he ran swiftly and noiselessly down the stairs. He comprehended the meaning of the
Divine effulgence that surrounded the Divine effulgence that surrounded the
manger, and he knelt in rapt adoration. Pressing his lips again and again to the closed doors he stretched forth his arms, crying rapturously
"Father! The King, the King is here! -From Pictorial Review.

## The Children's War.

This is the Children's War; because Tp the Drory's to the young and clean
March dear Eigh's ravening jaws
Jind Seventeen.

Fresh from the Chrisom waters pure Dear lads, so eager to attain To the bright visions that allure
The Knight's ordeal, the red pain.

The light is yet upon their curls The dream is yet within their eyes; Their cheeks are silken as a girl's
And little Knights of Paradise.

O men with many scars and stains, Stand back, abase your souls and pray! And golden Twenty wins the day.

Brown héads with curls all rippled They leap to darkness like a lover-
To Twenty-one is fall'n the game

## It is the Boys' War. Praise be given

 Who have wo narth alalBy violence! Weep not taken Heaven
-The Spectator.

## Next!-The story of the rival bootmakers, which appeared recently, is matched by a correspondent of an English paper with another story, equally old but equally worth repeating. It concerns two rival sausage-makers. Again, they lived one day, one of them placed over his shop the legend: <br> "We sell sausages to the gentry and The next day, over the way, appeared "We sell sausages to the gentry and Not to be outdone, the rival put up what he evidently regarded as a final statement, namely: <br> Neut sel sasages to the King.

## Next day there appeared over the door

 "God save the King." - Christian
## Our Serial Story

## An Alabaster Box

## By arrangement with McClelland, Goodchild 8

 Chapter VIII.Jim Dodge had been hoeing potatoes all day. It was hard, monotonous work hunting season was far away, and the growing potatoes were grievously beset his sharp-bladed hoe from early morning till the sun burned the crest of the great high-shouldered hill which appeared to
close in the valley like a rampart, off close in the valley like a rampart, off
Grenoble way. As a matter of fact the brawling stream which gave Brook-
ville its name successfully skirted the hill by a narrow margin which likewise orded space for the state road
either the young man was not considering country at large or the refreshed and renovated potato field, with its serried ranks of low-growing plants, as he tramped heavily crosslots toward the house. At response to the wide-fung summons of of the tin horn which hung by the back
door, he had found the two women door, he had found the two women of his
household in a pleasurable state of
"'We've got our share, Jim!", pro-
claimed Mrs. Dodge, a bright red spot glowing on either thin cheek. "See!
here's the check; it came in the mail this morning
And sle
And she spread a crackling bit of paper "I was some surpris
she added. "Folks ain't generally in any hurry to part with their money. But they do say Miss Orr paid right down
for the place-never even asked 'em for any sort of terms; and th' land knows they have been glad to given them to her,
to anybody that had bought the place to-anybody that had bought the place
these dozen years back. Likely she didn't these dozen ,
know that.'
Jim scowled at the check.
"How much did she pay for the place?" "How much did she pay for the place?"
he demanded. "It must have been a lo more than it was worth, judging from this."
"I don't know," Mrs. Dodge replied. "And Ion't know," Mrs. Dodige replied. long's we've got our share of it.'
She was swaying back and
squeaky old rocking-chair, the check squeaky otd rocking-chai,
clasped in both thin hands
"Sta
"Shall we bank it, children; or draw it all out in cash? Fanny needs new
clothes; so do you. Jim. And Ive got o have a newcarpet, or something, for the prought in are all right, Jim, if one can" get anything better. I suppose we ought
to be prudent and saving, bnt I declare to be prudent and saving, bnt I declare
we haven't had any money to speak of for so long-
Mrs. Dodge's faded eyes were glowing with joy; she spread the check upon her lap and gazed at it smilingly.
"I declare it's sthe biggest surprise I've had in all my hife
"LLet's spend every cent of it," proposed ranny recklessly. "We Midn't know
we were going to have it. We can scrub along afterward the same as we alway have. Let's divide it into four parts one for the house-to fix it up-and one or each of us, to spend any way we like.
What do you say, fim?" II shouldn't wonder if Mrs. Deacon Whittle would furnish up her best parlo "She's always said she was goin" to have gilt paper and marble tops and electric
blue plush upholstered furniture. I guess blue plush upholstered furniture. I guess
that 1 li be the last fair we'll ever have in that house. She wouldn't have every body trampin' over her flowered Body plush furniture; but I don't know as d care for electric blue. What do you Jim Dodge sat sprawled out in his picture of magnificence, about to be
realized in the abode of Deacon Amos Whittle, he gave vent to an inarticulate
growl. "What's the matter with you, Jim?"
shrilled his mother, whose perpetually shrilled his mother, whose perpetually
jangled nerves were capable of strange
dissonances. "Anct dissonances. "Anybodd'd suppose you
wasn't pleased at having the old Bolton place sold at last, and a little bit of all that's been owing to us since before your
poor father died, paid off. My! If
we was to have all that was coming to us by rights, with the interest money-, hungry and tired, mother, and "Twant my-dinner,", said Jim brusquely. so I guess I'll have to do it, same potatoes: so "For pity sake, Fanny!" cried his
mother, "idid you put the vegetables mother, "did $y$, your put the vegetables
over to boil?" I ain't thought of anything since this check came
It appeared that Fanny had been less forgetful back to his belated dinner, Jim had gone and sister deep pins, leaving his mother comparative virtues of Nottingham lace and plain musiin "I really bel
on the house the I'd rather spend more on the house than on clo'es at my age, "
he heard his mother saying, happily, as All during $t$
All during the afternoon, to the clink of myriad small stones against the busy
blade of his hoe, Jim thought blade of his hoe, Jim thought about
Lydia Orr. He could not help seeing that it was to Lydia he owed the prospect
of a much needed suit of clothes. would me Lydia who hung curtains, And $n$ ort, their shaboy best room Mrs. Whittle's empty parlor. She had already given the minister a new long
tailed coat, as Jim chose to characterize tailed coat, as Jim chose to characterize
the ministerial black. His cheeks burned under the slanting rays of the afternoon under the slanting rays of the atternoon
sun with something deeper than an added - that of tan. Why should Lydia Or baby, or a saint-do all this? Jim found himself unable to believe that she really
wanted the, Bolton place. Why, the house was an uninhabitable ruin 1 It

He set his jaw savagely as he recalled his late conversation with Deacon Whittle. The cheating old skinflint,", as he mental had, he was sure, bamboozled the girl into buying a well-nigh worthless property at a scandalous price, It was a shame He, , sim Dodge, even now burned with
the shame of it. He pondered briefly the the shame of it. He pondered briefly the
possibilities of taking from his mother possibilities of taking from his mother
the check, which represented the pro reta share of the Dodge estate, and returning it to Lydia Orr. Reluctantly he abandoned this quixotic scheme. The swindle-for as such he chose to view it
-had already been accomplished. Other -had already been accomplished, Other poople would not return their checks. Ond
the contrary, there would be new and fertile schemes set on foot to part the unworldly stranger and her money.
He flung down his hoe in disgust and
straightened his arching shoulders. The straightened his arching shoulders. The whole sordid transaction put him in mind of the greedy onslaught of a horde of
hungry ants on a beautiful, defenselesa flower, its torn corolla exuding sweetness. of reason behind it. Why had Lydia Orr come to Brookville
And here, unwittingly, Jim's blind
conjectures followed those of Wesley Elliot. He had told Lydia Orr he meant to call upon her. That he had not yet accomplished his purpose had been due
to the watchfulness of Mrs. Solomon Black. On the two occasions when he had rung Mrs. Black's front door-bell, that its summons, On both occasions she had informed Mr. Dodge tartly that Miss O*T wasn't at home.
On the occasion of his second disappointment "There ain't no use of that, Jim", Ors. Black had assured him. Miso Orr's sgone $t$ boston to stay two lays.
Then she had unlatched her close-shut lips to add: "She goes there frequent, on business."
Her eyes appeared to inform him further nature, was none of his business and never would be.
"That old girl is down on me for some as he walked away for the second tiny, But he was none the less resolved to pursue his hopefully nascent friendship with Lydia O
He was thinking of her vaguely as he his father's and where he and Feen had been born. It was little and low and old, as he viewed it indifferently in the fading light of the sunset sky. Its walls had needed painting so long,
that for years nobody had even mentioned the tor years nobody had even mentioned
the subject. Its picturesquely mossy
roof leaked. But a leaky roof was a

.pretense, and of course he had not return-
ed. Her cheelssensingled hotly as she
recalled the wav in which
 what- not
"I guess Mr. Elliott forgot his cream," the girl had said, with a spark of malice talking to that Miss Orr." Fanny had humiliated herself stil further by pretending she didn't kno it was the minister who had left his ic cream to dissolve in a pink and brown
puddle of -sweetness. puddle of sweetness. Whereat Joyce
Fulsom had giggled disagreeably.
"Better keep "Better keep
to Jim; but it was all plain speak of this "I'm zoing down to the village for awhile Fan", her brother said, as he arose from the table. But he did not, as was his After Jim had her to accompany him. After Jim had gone, Fanny washed
the dishes with mechanical swiftness. Her misther had asked her if she would come to prayer meeting, and walk home with her afterwards. Not that Mrs. Dodge was timid; the neighborhood of
Brnokville had never been haunted after nightfall by anything more danger ous than whippoorwills and frogs. A plaintive chorus of night sounds the darkness, How sweep out into suckle and late roses smelled under the dew! Fanny walked slowly across the yard to the old summer-house, where the
minister had asked her to call him Wesley, and sat down. It was very dark unfer and sat down. It was very dark unfer
the thick-growing vines, and after awhile tranquility of a sort stole over the girl's spirit. She gazed gut into the dim spaces beyond the summerhouse and
thought, with a curious detachment, of all that had happened. It was as if she had grown old and was looking back calmly to a girlhood long since past, She could almost smile at the recoliection of herself stifling her sobs in her pillow,
lest Jim should hear. lest Jim should hear
asked herselt wonderingly: and could not
tell. Then all at once she found herself weeping softly, her head on the rickety table. own confused thoughts absorbed in his attention to Fanny, had walked resolutely in the direction of Mrs. Solomon Black's house; from which he reflected, the minisat. least an hour. He hoped Mrs. Black had not induced Lydia to go to the prayer meeting with her. Why anyone should voluntarily go to prayer meeting passed
his comprehension. Iim had his comprehension. Jim had once at-
tended what was known as a "protracted meeting," for the sole purpose of pleasing his mother, who all at once had appeared
tearfully anxious about his "soul." He tearfully anxious about his "so
had not enjoyed the experience.
"Are you saved, my dear young
brother?" Deacon Whittl der brother? in Deacon Whittle had inquired
of him, in his sniffling, whining, peculiar "From what, Deacon?" Jim had blandly inquired Whereat the Deacon had piously
shaken his head and referred him to th "mourner's pew," with the hope tha he might even yet be plucked as a brand
from the burning from the burning.
Lydia had not
Lydia had not gone to the prayer
meetting. She was sitting on the piazza,
quite alone She srose whe quite alone. She arose when her desteps.
"Oh, it is you!" said she. - An unreasonable feeling of elation arose in the young man's breast. he inquired, with all the egotism of which
he had been justly accused He did not wait for her reply; but
procceded with considerable humor to
describe his previous unsuccessful describe his previous unsuccessful at-
tenupts to see her.
"p suppose") Black has kindly warned you against me?",
 $=-\infty$ $x^{2}+2=$

"You mean-
"About your buying the old Bolton place and paying such a prcposterous
price for it, and all the rest, including price for it, and all the rest, including
the minister's back-pay." She remained silent, playing with the ribbon of her sash.
that have a sort of inward conviction that you're not doing it because you to live in", he went on, keenly observant of the sudden color fluttering in he cheeks, revealed by the light of Mrs. Solomon Black's parlor lamp which stood on a stand just inside the carefully
screened window. "It looks," he finished, "as if you-well; it may be a queer thing for me to say; but I'll tell you frankly that when mother showed me the check
she got to-day I felt that it was-chariter she got to-day I felt that it was-charity." "Oh, no," she said
quite, quite in the wro with yut can't make me believe that with all your money-pardon me for mentioning what everybody in the village vince me that the old Boston place has oil under it, or coal or diamonds, before
"Why should you need to be convinced of anything so unlikely? she asked, with gentle coldness.

## "Of course angrily

## "I didn't.

could have no idea that. But, naturally "Well; I won't work for you -" our dollars a day," he said loudly. "I
hought I'd like to tell you," thought I'd like to tell you." Deacon Whittle give you said. "Didn't Deacon Whittle give you my message?'
He got hurriedly to his feet with a muttered exclamation.
"Please sit down, "Mr. Dodge," she to see you all day. "I've been wanting to see you all day. But there are so
few telephones in Brookville it is difficult Het word to people.
"We eyed her with stubborn resentment. "What I meant to say, was four dollars thing about the value of monew, Miss Orr? Somebody ought to have common honesty enough to inform you that there
are plenty of men in Brookville who are plenty of men in Brookville who dollars a day. I would, fork ore; two won't take a cent more," She was frowning a little over these
statements. The stalwart young man statements. The stalwart young man
in shabby clothes who sat facing her in shabby clothes who sat facing her
under the light of Mrs. Solomon Black's well-trimmed lamp appeared to puzzle her. all "But why shouldn't you want to earn all you can?" she propounded at last. money for?" anything you need to use grudgingly. "I suppose that I'm not exactly the glass of fashion and the mold of form.
He was instantly
for the crude personality "You must think I'm a fool!" burst from him, under the sting of his selfinflicted lash.
She smiled

> She smiled and shook her head. "I'm not at all the sort
you appear to think me," of person Her grave blue eyes looked straight
into his. "But don't into his. "But don't let's waste time trying to be clever: I want to ask you if charge of the outdoor improvements Bolton House."
She colored swiftly at sighents at Sine colored swiftly at sight of the
quizzical lift of his brows. "I've decided to call my place 'Bolton on rapidly: "for one thing, she went has always called it the Bolton place, so body to know what place is meant. "Yes; but the name of Bolton has an ill-omened sound in Brookville ears,",
he objected. "You've no idea how people "It all happened so long ago, I should, she offered, atter a pause.
"I I wouldn' call my house after a
thief", he said strongly. "There are hundreds of prettier names. Why not "You haven't told me yet if you will
accept the pasition I spoke of."
He pasised his hand over his cleanshaven chin, a trick he had inherited
from his father, and surveyed her stead-
ily from under meditative from his father, and surveyed her stead-
ily from under meditative brows.
"In the first place, I'm not a landscape
the sort of man you want. You can get
one in Boston, who'll group your ever. greens, open vistas, build pergolas and
all that sort of thing."
"You appear to know exactly what I
"Perhaps I do," he defied her.
"But, seriously, I don't want and won't have a landscape-gardener from Boston opinions, Mr. Dodge. I intend to mes around myself, and change my mind I want to work about all sorts of things in want to work things out, not on pape of growing things-wild things out of the
woods. You understand woods. You understand, I'm sure of the
The dawning light in his eyes tol
her that he did. her that he did.
"But I've had no experience," he
hesitated. "Besides, Ive hesitated. "Besides, I've considerable hoeing potatoes all day. Tomorrow shall have to go into the comnfield lose my crop. .Time, tide and weeds
wait for no man." "I supposed you, were a hunter," she "Oh, I see," he interr
"you supposed," he interrupted rudely: you supposed, in other words, that I was
an idle chap, addicted to wanderin the woods, a gun on my shoulder, cur-quite, as much of a she'er-dor-well
as myself-at my heels. Of course as myself-at my heels. Of course Deacon
Whittle and Mrs. Solomon Black have Whittle and Mrs. Solomon Black have
told you all about it. And since you've set about reforming Brookville, you've thought you'd begin with me. Well, 'm obliged to you; but-'"
The girl arose trembling to her feet.
"You are not kind!" she cried. "You are not kind!"' kind!" she cried. "You They stood for an instant, gazing into each other's eyes during one of those
flashes of time which sometimes count flashes of time which sometimes count
for years. for years.
"Forgive
"I'ma mergive," he muttered huskily, to speak to you as I did.
"But why did you say-what made you is what think I'd set about reforming-that I what you said-reforming-Brookville? could I?"' He hung his head, abashed by the He hung his head,
She clasped her small, fair hands and
"And you said you wanted to beI'm ashamed of myself:". "I've told you She drew back, sighing deeply, "I don't want you to feel - ashamed," she said in a sweet, tired voice. "But I "Tell me!" he urged, when she did
 misunderstand me, as you have?"' she asked, somewhat piteously. "Is it so strange and unheard of a thing for a woman to want a home and -and
friends? Isn't it allowable for who has money to want to pay fair wages? Why should I scrimp and haggle and screw, when I want most of all
to be generous?"

## "Because," he told her seriously,

 scrimping, haggling and screwing have thing rouses mean suspicions, by its verynovelty. It's too good to be true; that's

## "You mean people will suspect-they'll

 She stood before him, her hands fallen at "I confess I couldn't believe that there wasn't an ulterior motive", he said honestly. "That's where I was less noble She flashed a sudden strange look at "There is," she breathed. "I'm going ulteriormotis-with you, I have-a "Will you tell me what it is?"Her lips formed the single word of He gazed at her in silence for a moment. "I'm going to accept the post you just
offered me, Miss Orr, at any salary you think I'm worth," he said gravely Steps and the sound of voices floated on its rusted hinges; then slammed shut. penetrating accents of Mr. Elliott," came the
Black's Solomon penetrating accents of Mrs. Solomon
Black's voice, "I should hire a reg'lar
reviv'list along in th' fall, after preservin' reviv'list along in th' fall, after preservin
an' house-cleanin' time. We need an
'outpourin' ville; and w reply: careful co
tween now "this is no
Miss Orr!" Miss Orr:
She laid "You ca
and becam shadow am vaulting o
with the da

Come into For our Come into And the sm
And the
There has fa
From my
Oh, take it
Oh, take it
Theas out
The toast
The coffee
fear,
And the $p$
Are you con
Oh, come
Oh, come
Why, why
These eggs
They were
If you count
We'll feast

## Whenever called on Aun called on Aun and then, ply "ligious 'spo "When do removed, so den de La epidemic," a large bite " "Uh-h!" De good nesses," said in spirit and gingerbread, in his uttera man a fair tri

"Apart fro
Paderewski, " whist, billiar stock. The
an amusing e ing in Engla
some prize pi
action had be newspapers.
the pigsty of came up, and entered into
After showing anxious, appa
to impress me breeder, he co
not seen, and
of pigs. of pigs. 'Do
confidentially. Paderewski, $\quad$ A
To the turke
the country o
is wild. How
toriously not
and a certai
Baltimore had
a preference
Accordingly, w
accepted an i
member of his
ber, in orderin
servant, laid s



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soil as near to the surface as practicable is closely observed.-Experimental Farm
Note.

## Urban Increase and Rural

 Decrease.The rapid growth of urban populations neent is properly directed and controlled and if the urban conditions are made as healthy as the rural conditions. Neither growth of cities nor depletion of rural population is necessarily nim unhealthy country. to the town is the result of desircs Tor greater opportunities and educationa and social conditions, who can say that movement so inspired is an evil? It the rural districts, as wey as healthy as proper conditions of development, why tion to migrate to the most profitable industries, so long as they remain the most proftable? We may deplore rural depopulation, but it will be futile to fight against it so long as manufacturing pro-
duces a hetter return to labor and capital than agriculture, and so long as there are urban opportunities for human better ment superior to those in rural districts.
Indeed, wwe cannot have national prosperity unless human activity is applied to the most profitable fieliss or productionwhether they be growing food, or making
clothes, or building ships. One of the men who failed to malea a farm ory in Northern Ontario is to-day managing a large and successful motor industry in Canada, and there are hundreds of others
who have gone through the same exwho have gone through the same ex-
perience. Indirectly, that man, in makperience. motors, is a great agricultural producer, if he had remained on the soil producer, as he would be wasting his efforts on an unprofitable business.
But, what is wrong is not that that
man and thousands of others have left man and thousands of others have eft
the soil, but that the opportunities for making profitable use of their skill were wrong is that wasteful and inefficient methods have driven the most intelligent and encrgetic men into the towns, and as a consequence, the alsence of these men has perpetuated the wastefuines that people go to the cities and towns to find social opportunity, but that they are not able to get that opportunity on the farm. What is causing deterioration or mind and body in urban communities is not the growth of cities and towns, but sanitation which accompanies that bad as the result of laxity of goverowth What makes rural depopulation in Canada most serious to the rural districts themselves is the quality, rather than the quantity, of those who leave the land, and the fact that the capital and energy which settlement have been so largely promote As a rural area beco su. population the causes of migration come accentuated, social opportunite and facilities for co-operation and dis tribution are further lessened, and there profits of production best of the rural population that is drawn to the city for these reasons and, where becomes more and quality, the residue physique, intelligence and morals as the process of depopulation continues. The
small wage England, which was first a laber of in
and best men leaving the rural distrie of the become an effect of the lowered efficiency of those who have remained. May not
the alleged lack of business the farmers in some of the older provinces of the industry, before it beco low profits Parallel with low profits to the producer
is the anomaly o sumer. The high cost of living is a
premium paid for lack of velopment and organization of produc
tion. It is difficult to determine to what extent
Canada as a whole has suffered fromm Canda as a whole has suffered from
movement of population. In so far as it
has been encourto
 portunities of making easy money in land
cambling, it has been wholly injurious.
of land which was unsuited for agricul ture and could not be put to economic other hand, in so far as it may on the otrer hand, in so far as it may have in-
creased production in the city at the creased production in the city at the ex-
pense of diminished production in the country, it may not have been entirely an evil; on the contrary, it may have been a benefit if it has meant the transfer of labor from an unprofitable to a profitable
industry. Within proper limits the de velopment of manufacturing is as deportant as the development of asricul ture, and over-production in agriculture has to be guarded against as well as under-production. There must be a proper kinds of industry Unfortunaen the two country at present the production of the has not been commensurate with the ded mand; because the equilibrium between the rural and the urban industries and populations has not been properly main-

While, however, it is wrong to jump to population from rural the movement of necessarily injurious to is no gainsaying that a large proportion of this movement in Canada has resulted from a play of forces which has left us weaker and poorer as a nation. If, by Government subsidy or other artificial means, we were to succeed in temporarily without revising our methods of planning and arranging agricultural holdings so as to improve farm revenues and obtain opportunities for better social conditions, place difficulties in the same time, to gambling we would not succeed of landing such injurious results as follow from the migratory tendencies of the population.

Sir Horace Plunkett has stated that the city on the American continent has been developing at the expense of the country. heither the be more correct to say that veloped properly because of their has deof each other? Beca have sufferg nect cause of lack of recognition of their inter-dependence.- Thomas Adams in Rural Planning and Developmént, published by Commission of Conservation.

## Fortunes Made From

 Pedigree Stock.Edttor "The Farmer's advocate"

The farming year of 1917 in Britain over of pounds sterling in pedigree cattle Taking Shorthorn cattle alone, in England and Scotland, in 1917, some 6,497 head were offered and realized $£ 512,82614 \mathrm{~s}$. 6 d The sale which produced the highest price and highest average was where Mr. Wm. Duthie sold 24 bull calve for $\$ 65516 \mathrm{~s} .3 \mathrm{~d}$. each, one of them fetching 2,700 guineas, this being the highest price ever paid for a bull calf of any breed under the age of twelve months. That
day Mr . Duthie received for 35 youngsters he offered for sale. Yorkshire breeders Captain C H . Tolliff and Mrs. Scurfield held a joint sale and realized $£ 13,987$ for 74 head; the Brothers Perkins, Monmouthshire breeders mad £13,088 for 92 head; but at the sale of the late Lord Lucas' herd of dairy Short-
horns 92 cattle brought in 617257 . Some horns 92 cattle brought in $£ 17,257$. Some B. Nelson \& Sons realized 67,667 , when they sold 87 head, and Mr. R. Cock, Fleetwood, made $\$ 5,550$ for his 52 cattle while Sir John Thursby also in Lanca Shire was paid $£ 9,434$ for 41 head. One and a Northamptonshire Company which breeds Shorthorns at Edgcote, realized ¢9,652 for 36 young cattle, one of which made 2,000 guineas and was bought for the Argentine
In British-bred Holstein-Friesian cattle even more extraordinary figures have been made. Some 1,002 head were
offered in 1917 and realized $£ 103,579$ 17 s .6 d . For 79 head she offered Wickham Market, Mary, Duchess of Hamilton,
was paid $£ 15,414$, one cow selling to Mrs. Putman, Aylesbury, for 1,650 guineas. When Mr. John Bromet sold his 52 Holsteins he received $£ 12,30116$ s, and
A. \& G. Brown were paid $£ 12,726$ for 59 cattle. A Scots breeder got $£ 8,259$ for head of big milkers.

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Don't Dig Post Holes Use Standard Steel Tube Fence
Posts and free Fence Hooks. Stendard Steol Tube \& Fence Ca, Limited Woodstock, Ontario

## ROOFING  

## THE FARMER'S ADVOCATE

average of 659810 . each. These Scots
cattle have made catre have made more money in 1917
than in any year since the American boom in the early eighties. sheep as those ruling prices been paid for Mond made a record in Ashford, Kent when he gave 300 guineas for a ram bred sold seven rams hober Mond that day shillings short of $\$ 100$ apiece. Yearling
ewes of the over £12 each at the sale of Mr. J. R. Betts' Otham flock. In less popular
breeds prices have ruled high, for inbreeds prices have ruled high, for in-
stance 648 for a blue faced Wensleydale ram, and 545 for a Ryeland
for "records". They have averaged $£ 247 \mathrm{~s}$. 2d. apiece at some sales and one, a Gloster spotted pig made 60 guineas,
Lord Rhondda paying 40 guineas for Lord Rhondda paying 40 guineas for a sow at Lord Fitzhardinge's sale.
A young Shire colt foal, bred by
Williams at Tring, made 530 guineas at
Peterboro' Reposither Peterboro' Repository, where another
colt foal, his half-brother, fetched 490 guineas.

## Beekeepers' Meeting.

The second week in December the Ontario Beekeepers' Association held their thirty-eighth annual Convention
in Toronto. There was a fairly attendance and many subjects of vital interest to beekeepers were discussed by men who have made a success of handling bees. There has been con-
siderable loss of adult bees during the siderable loss of adult bees during the This matter was discussed at some lenge and it was believed that the trouble i identical with what is known as the Isle of Wight disease which was discovered about fifteen years ago and has spread throughout Great Britain. A number of resolutions were adopted, including one
dealing with clause five of the Foul Brood Act. The meeting was desirous of having the word "knowingly" dropped from the clause so that the clause would be to the effect that any person found
selling, bartering or giving away bees selling, bartering or giving away bees
or beekeeper's appliances affected with Foul Brood shall incur a penalty or imprisonment. The following officers were appointed for the ensuing year:
President, J. Armstrong, Selkirk; First Vice-President, W. W. Webster, Little Britain; second Vice-President, A. Mc-
Tavish, Carleton Place; Secretary- TreaTavish, Carleton Place; Secretary- Trea-
surer, P. W. Hodgins, Toronto,

## Gossip.

The Spring Valley Herd.
There has probably never been a time in the history of Shorthorns in Canada
when the demand for really high-class breeding animals has been so great as during the past twelve months. To supply this increased demand many
breeders have diminished their herds more breeders hey had anticipated doing, with to get stock to replace those they have sold. There are others, however, who have held on to their breeding herds,
regardless of prices bid and of these regardless of prices in a better position probably none are in a better position Spring Valley Farm, ofrumbo, Ont.
At the present time there are almost At the present time there are almost
100 head of pure-breds in the Kyle stables, and, as seen recently by a representative of the Farmers Advocate, hould
were as high quality a lot as one would wish to see. The breeding females repre-
sent nearly all of the more fashionable Scotch families and are one of the most profitable breeding lots in Ontario to-day, is still in the herd and is again either
heavy in-calf or has a calf by her side.
Every breeding cow in the Spring Valley
stables must be a true and regular breeder Every breett be a true and regular breeder.
In addition to this, individuals selected In addition olal herd have always made
from the regular whe which Messrs. Kyle
up the show herd have been so successful with at the larger
shows the past few vears. At both Toronto and Ottawa Exhibitions this
fall the majority of their entries were
sired by either their junior herd bull, fall the majority of their entred bull,
sired by, either their junior herd
Sea Gems Pride, or the senior herd bull,
Nonpareil Ramsden. Sea Giem's Pride
serviceableage of the young bulls of are by this sire and among them are everat that were winners in strong company in search of stock of Ottawa. Breeders in search of stock of quality and good municate with Messrs. Kyle.

Questions and Answers. Miscellaneous.

Lord's Day Observance. Is it against the law to sell gasoline on Ontario.
Ans.-Yes. The Ballot
A is Deputy Returning Officer at a election. B goes to vote. Does A have
2. If B does not take his ballot whe the officer offers it to him, and afterward comes back and asks for it, does the
officer have to give it to him?

Uuscriber.

Veterinary.
Black-Leg.
lambs to render them to vaccinat black-leg?
2. How should scours in lambs be treated? A. A. W.

Black-leg is considered a specific disease of cattle. We have never heard of sheep being affected, but if they are liable, no doubt immunitive treatment would be advisable. You probably have confused black-leg, and anthrax. Sheep are liable to anthrax.
2. If possible the cause should be ascertained and removed. It is no doubt due to either the food or water. The addition to the drinking water of $1 / 4$ fits bulk of lime water tends to check and prevent it. For an acute case give 0 to 12 drops (according to size of patient) f laudanum and $1 / 2$ to 1 teaspoonful eac of powdered catechu and prepared chalk in $1 / 2$ pint of raw milk every 5 or 6 hours until diarrhœea ceases.

## Goitre.

A large growth appears and then disappears for a variable time, then reappears, in my dog's throat. may be checked by rubbing the throat well once daily with an ointment made of 2 drams each of iodine and iodide of potassium mixed with 2 oz . vaseline. V. Partial. Dislocation of the Patella. Now it snaps every three or four steps, Now it snaps every three or four steps,
and the hoof is contracted and worn down on the outside. sore in the winter, but seem to be all right in the summer. They get sore
between the toes. Ans.-1. Get a blister of 2 drams tharides mixed with 2 oz . vaseline. Clip the hair off the front and inside of the joint. Tie so that he cannot bite the
part. Rub the blister well in. In 24 hours rub well again and in 24 hours box stall and oil every day. Repeat the on pasture again. Get your shoeing
smith to pare the hoof to as normal a shape as possible and then put on a light
shoe, which will prevent uneven wear
of the hoof. It will probably be wise to keep him shod for some months. of the feet and extreme sensibility to cold This is very exceptional in Airdales which than most breeds. All that you candoisto apply oxide of zinc ointment and keep
him out of the snow and cold as much as possible, or make or get made a set or two
of broots made of chamois material which will cover the feet and
be tied around just above the paws.

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Write for our neus easy poment, ree trial, plan. - We will send you out a payment of any kind to test out on your own farm. Just try ityou'll wonder how you got along without it. You'll be surprised Wow quickly it will pay for itself.
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## ROOFING

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Bulls of serviceable age and
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Beaver litl ABERDEEN-ANEUS
Cows with calves at fool Bulls of
serviceable age and females all ages. ALEX MCKINNEY, R. R. No. 1, Erin. Ontario Alloway Lotge Stock Farm

Angus-Southdowns-Collies showflocks
Rams and ewese Hetifers in calf to Queeen's Edward. Robt. McEwen, R. R. 4, London, Ont Kennelworth Farm Aberdeen-Angus

A grand lot of calveg for sales ages in the
neighborhhood of 7 months. Victor PETER A. THOMSON. HILLSEBURG, ONT. ANGUS CATTLE


## Aberdeen-Angus



Questions and Answers.

## Miscellaneous.

Agistment of Cattle.
I turned 9 head of cattle out to pasture, the man was to fence his farm off so cattle could not run all over, as there is
over 2,000 acres of land in the commons He did not fence his land off and cattle ran at large over the large tract of land. He had a man looking after them. The owjer of the land said he was to be responsible for them; but the man he hired said he was not. When I went to get some of my cattle, they were never
fenced in at all, and I hunted for over a day and could only find 3 of them Then I went back again and hunted about another day for the rest and in finding them they had been dogged when they would come out to cleared land and
sent into the bush sent into the bush, and the cattle did
not prow as they should have don have witness that the cattle did not pasture on his farm a week all summer. Can 1 collect pay for time looking for cattle?
Can he collect pay for pasture? I have Can he collect pay for pasture? I have
as good a right to turn cattle in there to as good a right to turn cattle in there to
pasture as any one else as it is commons. pasture as any one else as it is commons
He agreed to fence the lot but I will pay the man for looking after the cattle.
Ontario. $\begin{aligned} & \text { Ons.-We do not see that he is in a } \\ & \text { Ans }\end{aligned}$ position to collect. On the other hand it appears to us that you are legally of the agreement between you for breach - Poultry Standerd

Poultry Standard.
give me any information regarding where I can secure a poultry
standard? Ans.-The "American Standard of Periection can be secured through this office for 2.00 , postpaid.
Lump on Leg-Condition Powders. spring and she has a lump about the size of a hen egg on the outside of the front ieg at the knee. It does not bother her, but I would like to have it removed. 2. What is a good condition powder
for a horse? Ans. -1 . You might try an absorbent such as a mixture of 4 drams each of
iodine and iodide of potassium and iodine and iodide of potassium and 4
ounces each of alcohol and mycerine ounces each of alcohol and glycerine.
Apply daily with smart friction. Rubbing may help to remove it. If the swelling is on the skin, it should be
possible to remove it: if on the bone it possible to remove it; if on the bone, it
would be much more difficult and if of long standing we doubt if it can be removed. A blister might give results, but
you do not state definitely just where the you do not state definitely just where the
lump is located. The blister is made by mixing 2 drams each of biniodide of mercury and cantharides with 2 ounces 2. Equal parts of sulphate of iron. gentian, ginger and nux vomica, mixed
together together, make a very good tonic. Give a teaspoonful three times daily. In con-
ditioning a horse careful feeding and dudicious exercise are necessary. Division of Estate-Government Road directs that (at no definite time) the legates, one of whom is a minor and had to be maintained for a number of years
by her sister at a price agreed upon by herself (sister) and executor. Now A property, but the trouble is this: That
 balance amounts to $\$ 11000$ on the would have been $\$ 12,000.00$ were it for the fact that the money so spent $\$ 1,000.00$. Would it be right to increase the amount to be divided namely, $\$ 11,000$
to $\$ 12,000$, giving the sister $\$ 6,000$ and the minor 85,000 , charging her with the
sum expended to even matters up if so, would it be legal to compute the
interest at inve per cent. simple or com-
pound interest? pound interest?
2. Can the government that has taken

\author{

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Imported and Canadian-Bred Clydesdales
I am offering a number of imported in-foal mares by such sires as Baron's Pride, Everlasting, Pride of
Blacon, etc. Our six Canadian-bred mares are from one to four years, and all have been prominent
winne. winners at Toronto and lesewhere These are by Marathon imp. LLord Scoot ilm., etc. Ween prominet
one two-year-old stallion by Gallant Carruchan, and one yearling by Lord Scott imp L. J. C. BULL,

BRAMPTON, ONTARIO

## Dundrum Clydesdales

Several choice imported and Canadian-bred mares, safe in foal. Also several prize winning fillies and stallions, and a few show geldings, 2 and 3 years of age.
W. A. MCNIVEN, R .R. No. 4, HAMILTON, ONTARIO CLYDESDALES AND`SHOR THORNS
I have on hand a number of real choice young mares and filies Eizat excellent young buls, from
9 to 12 months, of Right Sort and Royal B. GALDER. R. R. No. 3. GLANFORD STATION, ONTARIO OUR LATEST IMPORTATION OF CLYDESDALES arrived at our barns hate in November. A number of them since have been prominent winers at both
Guuph and Otama. But we have others (both stalions and mares) that were never out. The majority


LARKIN FARMS, QUEENSTON, ONTARIO offer exceptional values in ABERDEEN-ANGUS CATTLE

SHROPSHIRE SHEEP BERKSHIRE SWINE

SOUTHDOWN SHEEP
Visitors welcome. Correspöndence solicited. (Please Mention Farmer's Advocale)
Herd Bulls:-HIGH IDEAL, Junior MAPLES HERFEORDS
IWw brother to Perfection Fairfax (The worlder Groatest Herford Sire), Offering:-A few cow with calves and re-bred to Clayton Donald. A limited number of yoarding heifers and calves, and BROOKDALE FARM HEREFORDS
Herd headed by Boanie Ingleside 7 th, the Canadian-bred champion bull at Toronto. 1914-1915. We
are offering several young bulls that were Toronto and Ottawa winners thi year, all sired by the herd


GLENGOW SHORTHORNS
We have a choice offering in young bulls, ft for service. They are all of pure Scotch breeding, WM. SMITH, COLUMBUS, ontario. Myrtle, C.P.R., Brooklin, G.T.R., Oshawa, C.N.R PLEASANT VALLEY FAKMS
 Robert Miller, Stouffille, Ont. still has a few Shorthorn bulls, fit for service, and some females that are as good as can be found for
the eman that wants of stat right in soctuch Shorthorns. They will be sold for a low price, considering
the ouality, and the freight will be paid.

IRVINEDALE SHORTHORNS
Herd headed by Marauis Supreme 116022. For sale at present, 9 granddaunhters of (Imp.) Right Sort.
and a good lot they are: also 2 bulls (roans), 15 months old, by Gainford Select.

## BURNFOOT STOCK FARM

##  <br> HIGH-CLASS SHORTHORN BULLS

## FLETCHER'S SHORTHORNS

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Questions and Answers liMiscellaneous.

Feeding Pigs-Line Fence, barley and pigs are fed on equal parts of half months old they lost their appetite and commenced to cripple. They turned
black around the black around the ears. They were kept of the pen. What is the cause of thides trouble?
The line is fenced lots side by side bush. A does not pasture the bush but
does the the his share rest of the farm. If B builds build his?
Ans.-1. The trouble may be due
an improperly-balanced an inement in a damp pen ond to conmight cause indigestion and loss of ding petite. Barley and oat chop are two
very good grains for pigs, but it is advisable to feed a few roots along with this and to give the pigs plenty of exercise.
In the summer they may run In the summer they may run in a paddock
and should be permitted to exercise the yard during the winter. Where they have not the opportunity for this outdoor exercise greater care is required in the feeding. While some hog feeders have very good results when the animals are
kept in a building with a stone foundation and cement floor with a stone foundation and cencent floor, others have all kinds of
trouble. A little earth thirown in the pen occasionally is a good thing, and charcoal, sulphur, wood ashes and a little salt can advisedly be given occasionally
2. A line fence must be kept up by the
owners of the farms adjoining. It is owners of the farms adjoining. It is
customary for the owners to decide on the customary for the owners to decide on the
portion of fence which is to be known as portion of fence which is to be known as
theirs, and they are responsible for the building and upkeep of itsible A fence is
bisully as necessary through the bush as usually as necessary through the bush as
it is in the clearing. If $A$ and $B$ cannot agree as to which is their portion of the called in to decide.

## Gossip.

Beaver Hill Aberdeen-Angus. With the exception of the new herd sire, "Vigilant of Larkin Farms," there is very little new to report regarding the splendid
Beaver Hill herd of Aberdeen-Angus cattle owned by Alex. McKinney, of Erin Ont. Vigilant of Larkin Farms, the sire referred to, is one of the best sons of Prince Bravo (imp.) to go out from Larkin Farms this year, and his dam, ictoria of Chapelton 2 nd (imp.), is one
of the very best breeding cows in the Queenston herd. There are a number of daughters of the former herd sire, Glenmar Lad, that are now being bred to the new herd sire, and combining, as they
do, all of Mr. McKinney's best families do, all of Mr. McKinney's best families the result from their mating with vigiant
of Larkin Farms should produce some of of Larkin Farms should produce some of
the most satisfactory results ever obtained in the herd
In young bulls there is at present also a strong offering. There are over a half dozen in all; ranging in ages from 9 to
13 months, and all are got by Glenmar 13 months, and all are got by Glenmar Lad. Every calf is well grown, and among
them are several that have promise of them are several that have promise on
making real strong show material for another year. The three 4 -months bulls that are still with their dams are by the same sire, and also worthy of note if any
of our readers needs do not demand a bull for immediate service. In Oxfords the present offering is very
limited. All the shearlings, both rams limited. All the shearlings, both rams
and ewes, have been sold and a few ewe lambs are now the only things that can
be spared. They, however, are a good lot and will, no doubt, go out quickly.
Full information regarding the herds and flock will gladly be furnished by Mr.
McKinney at alí times.

Little Johnny, who hat been studying
history but a short time, thought he would
give his grandfather a try-out on the sub-
ject, and asked:
The old gentleman laid downi his paper
ad looked thoughtfully at the boy for a
moment, and then a sudden light dawned
upon him;
"Why," he said, "that was the year I
marrie "your grandmother." - Harper's
Magazine.

## DualPurposeShorthorns

Herd Headed By DOMINATOR No. 106224 whose grandam on his mother's side has an R.O.P. record of 13.535 lbs. milk, testing 3.09;
and whose dam has an R.O.P. reord of ti, 10.689 ibs. milk, teeting 8.88. The cows in our herd are large and strictly dual-purpose in tyj̄e and performance, many of
them have high milk records. A feiv cows, heifers and young buils for sale, three of the latter are out of cows in the herd
which have given betwen 10,000 and 11,000 obs. of milk each in one lactation weriod.
Weldwood Farm
Farmer's Advocate, London, Ontario

PURE SCOTCH SHORTHORN BULLS


Imported SCOTCH SHORTHORNS


## SHORTHORN BULLS

of my own breeding, around a year old, best families and good colora, are for sale. Also a Myrtle, C.P.R., Brooklin, G.T.R., Brooklin, C.N.R. Wil A. Dryden, Brooklin, Ontario Co.
FIFTY IMPORTED SHORTHORNS I have fifty head of choice Scotch bred cattle now on the water, which will land at Quebec early in
November. These were selected from many of the best herds in the old land. Wat for these VItion
for particulars.
GESO. ISAAC. COBOURG. ONTARIO.

SALEM SHORTHORNS

Blairgowrie Shorthorns and Shropshires


## SHORTHORNS

I can spare a couple of cows, imported or Canadian-bred. with calves at foot and in calf again to Imp.
 SPRING VALLEY SHORTHORNS
Herd headed by the two great breding bulls, Newton Ringleader (imp.) 7378s, and Nonparell
Ramsden 8322 .
Can supply a few of either sex. EYLE BROS. DRUMBO, ONT. PHONE AND TELEGRAPH, VIA AYR DJRE SCOTCH SHORTHORNS
 OAKLAND SHORTHORNS

 JOHN ELDER \& SONS, HENSALL, ONT.
SHORTHORNS--T.L Mercer, Martrdale, Ont.
 atule; bulls or females; also have a few He
SEVENTY-THREE HEAD OF SHORTHORNS

 GERRIE BROS' SHORTHORNS
Herd headed by Gainford, Matchleos. one of the very best tons of the great Gainford Maraulo. Our
breeding cows are Missies, English Ladys Duches of Gloster, etc. Proent offering of young bulle aro by our former herd sire, Master Miseie, Junior Champlon at Breandon test summer.

MEADOW LAWN SHORTHORNS
 gome and see them. . Intending purchasers will be met at Elora any, time
F. W. Ewing, R. R. No. 1, Blora, Ont

THE MANOR STOCK FARM---SHORTHORNS
Present offering-A choice young red bull, fit for service in any' herd. Write or come andseese,
JOHN T. GIBSON,
DENFIELD, ONTARIO
NICHOLSON'S SHORTHORNS


## THE HAWTHORNE SHORTHORNS

 WELLAND DISTRICT SHORTHORIN BREEDERS' CLUB
CHAS. GAINER, Secretary, Box 607 , Welland, Ont. A. E. HOWELL, President, Fenwick, One
 LIFT YOUR CORNS OFF WITH FINGERS
Tells How to Loosen a Tender Corn Without Pain.
Without Pain.
A noted Cincinnati chemist discovered
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 cents from any drug store. You simply apply a few
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and instantly the soreness disappears, then shortly you will find the corn or callus so
loose that you can just lift it loose that you can just lift it
off with the fingers. No pain, not a bit of sore-
ness, either when applying ness, either when applying
Freezone or afterward, and it
doesn't even irritate the skin. doesn't even irritate the skin.
Hard corns, soft corns, or corns between the toes, also toughened
calluses, just shrivel up and lift off so easy. It is wonderful! Seems magical! It works like a charm! Your druggist has Freezone. Ask him
Cream Wanted
Ship your cream to us.
We pay all express
We pay all express
charges. We supply cans.
We remit daily. We
guarantee highest mar-
ket price.
Ontario Creameries, Limited London, Ontario

## GREAM

We are open to buy cream both for churn-
ing and for table use. ASE ANY SHIPPER
about our service and prompt returns. The figures of yesterday may be TOO
LOW for to-morrow. We furnish cans. The Toronto Creamery Co.,Limited Church Street.

## Gossip.

Shorthorns at Spruce Glen. need for a lengthy description ory the Spruce Glen herd of pure-bred Short-
horns owned by Jas. McPherson, of horns owned by Jas. McPherson, of
Dundalk, Ont. of continuous breeding, the herd has become one of the largest and best known in Ontario, and we believe every pur-
chaser of Spruce Glen Shorthorns in all that time has met with nothing but fair and honest treatment from the hands
of Messrs. McPherson \& Sons. We know of many cases where animals going out
from this herd from this herd at very moderate prices
have, on several ooccasions, brought have, on several occasions, brought
creditable honors to their purchasers shorttly aft erward in the show-ring, and
it is from these that the Advocat repre it is from these that the Advocate repre-
sentative has heard so many complisentative has heard so many compli-
mentary remarks regarding this firm and mentary remarks regarding this frim and
their dealings. At present their herd
numbers 175 heady sented are largely Minas, Emilys, Bruce Fames, and Florences. Many, of the
breeding cows are excellent milkers, and breeding cows are excellent milkers, and
while very $i$ ittle hand milking has been look every bit as good as 40 and $50-\mathrm{lh}$-a day cows, and all are kept only in good,
thriving condition. The present offering of a dozen young bulls of serviceable age
are all from dams that are still in the herd and are got by the present herd sire,
"Royal Red Blood," a hish-class son of Blood Royal (imp.), and the Bessie-bred bull, barl
young bulls mentioned are Most of the roans, and there are several among them that are just the right stamp for first-
class sires. All are, we understand, priced reasonably and inspection is
cordially invited, visitors beine welco cordally invited, visitors being welcome
at all times. A line to Mr. McPherso will bring fill information. Address
spruce Glen Farm, Dundalk, Ont, and Spruce Glen Farm, Dundalk, Ont., and
mention "The Advocate."
Berkshires and Shorthorns at Elmhurst.
Readers of these columns who are more Shorthorn cattle and Berkshire swine are all familiar with the noted Elmhe arst
herds owned by H. M. Vanderlip of R. R. herds owned by H. M. Vanderlip of R. R.
No. 1, Brantord, Ont. Elmhurst Berkshires, backed by the Eimhurst guarantee, gained favor in the early days of Berkshires in Canada, and from the first year
of the foundation of the herd every of the foundation of the herd every
shipment has gone out to every man on approval. Those who were not satisasked to return it, express collect, and this plan, as well as the quality of the
pigs sent out, share pigs sent out, share equally in placing
Mr. Vanderlip in the high position he holds among the breeders of to-day. At the time of our visiter recently there were,
as usual, another splendid offering in as usual, another splendid offering in
stock in the pens. Several young sows had just farrowed, and a number were
also well along in pig to the the great, old imported sire Sudden Torredor, which is still retained as the
chief sire in service. The young litters too, are by this boar, and should be suffi-
cient guarantee of cient guarantee of their future. The
young sows of breeding age, as well as
young boars fit for service, are not too plentiful but the offering in quality was never stronger, and to insure immediate
delivery on pigs of this age it would be In Shorthorns the present offering is also limited. There is nonent over-suppling is
either bulls or females. The first crop of calves is now coming on from the
new Missie-Lavender sire purchased last year from the Johnson herd at Ashburn.
Many breeders will remember him as Lavender Victor 83341 , a thick, well-
made roan got by the good breedig made roan got by the good breeding sire,
Missie Champion, and out of the noted Missie Champion, and out of the noted
breeding cow Collynie Lavender. The
younsters youngsters just now arriving from the
sire have exceptional promise, but as
they are all frot the they are all from the Lady Ythan, Eliza
and Lavender cows that make up the and Lavender cows that make up the
small but select breeding herd at Elm-
hurst hurst, they have every lilense to be
worth while. One needs, however, only one look at these calves to know that
Mr. Vanderlip Victor to follow up the services of his former sire, Royal Warrant (imp.), made no mistake and may await the results with
confidence. For conitidence. For thif intormation re-
garding both the Berkshires and Short-
horns address horns address. H. M. Vanderlip, Elm-
hurst Far, . R. No. V, Brantord, and
mention Farmer's Advocate


## Manor Farm Holsteins

Announcing the First Offering in Females My stables are getting too crowded and I must make roon trying to retain, or even daughters of my own herd sires freshening with their first calves, some will have to go to make room for the youngsters now coming. The prices asked on a limited number of cows should clear, and clear

I also have sons of both my junior and senior sires, King,
Korndyke Sadie Vale, and King Segis Pontiac Posch. GORDON S. GOODERHAM, GLARKSON, ONTARIO

## New GOAL OIL LIGHT Fin?

 Here's your opportunity to get the wonderful new particulars. This great free offer will be withdrawn as soon as some distributor starts, work in your neighborhood. You they wiil want one. We Aive to a few friends and neighbors:very little time, and no investment. Costs forthis help. Takes Burns yo Fours on One Callon




## HIGHLAND LAKE FARMS

Horld's record 28 We have young bulls for sale whose two nearest dams (both Canadian champions) ave as higi
 R.W.E. BURNABY (Farm at Stop, 55, Yonge St. Radial) JEFFFERSON, ONT.

Hospital for Insane, Hamilton, Ont.
-Present offerings are 4 grandsons of Dutchland Colantha Sir Mona, and
high-testing, large-producing R. of P. dams of Korndyke and Aaggie DeKol high-testing, large-producing R. of P. dams of Korndyke and Aaggie DeKol
breeding. Born during April and May, 1917. Apply to Superintendent.

## Roycroft Farm Holstein-Friesians

Our 30-lb. bulls have all been sold, but we still have several sons of Pontlac IKorndyle of Het Loo
that are just nearing serviceable age. Get one of these for
 Mona. See them at once or write early.
W. L. Shaw, Roycroft Farm (Take Yonge Street Radial Cars from N. Toronto) Newmarket, Ont

## SUMMER HILL HOLSTEINS

The only herd in America that has two stock bulls that the dam of each has milked over 116 lbs, a day
and their

average butter records are over 351 bss. a week. We have 50 heifers and young bulls to offer | D. C. FLATT \& SON. $\quad$ R. R. 2, HAMILTON, ONT. |
| :--- |
| PHONE 7160 |

 buil calves, about imay for service, sired by the latter bull, and out of heavy-producang cows, fo immediate sale. Female in milk have made high records, and sires used have the backing and are
proving good. Correspondence solicited, visitors welcome. H. G. HOLTBY, GLANWORTH, ONT. 25 HOLSTEIN FEMALES
The first I have ever offered. I am away overstocked and am offering females for the first time
I have over eighty head. Come and make your selection-one or twenty-five. The best-bred lot of cattle in Ontario. 1 also have five young bulls.
30 miles east of Toronto-C.P.R., C.N.R., G. TR


Harab-Davies Fertilizers
THE ONTARIO FRRTILIZERS, LTD
Sunnyhill Offering:
Holstein bulls and heifers
Shrophire ram lambs.
Yorkshire pigs. both se
WM. MANNING \& SONS
woodville, ont. For Milk, Butter, Cheese, Veal Holstein Cows Stand Supreme uf you try just one animal you will very soon Want more.
HOLSTEIN-FRIESIAN ASSOGIATION
Holstein Bulls
of serviceable age and younger; from
dams with records of 30 lbs. down. Write for prices.
$\begin{aligned} & \text { R. M. HOLTBY, R. R. 4, Port Perry, Ont. }\end{aligned}$.
KING SEGIS PONTIAG DUPLICATE
A K brother to the 550.000 bull is the sire of our
young bulls offered at present. Two of these are young bulls offiered at present. Two of these are
ready for service. Write us also for females.
R. W. Walker \& Sons

## AYRSHIRE COWS

are easy feeders-and thrive well.

Boz 531, Huntingdon, Oue.

## Fernbrook Ayrshires



COLLIER BROS, Beachville, Ont. lakeside ayrshires
 dias irred: Auchenbrain Sea Foam (Imp) 35758
 Grite for catalogue.








 D. M. WATT


Gossip.
The Oakland Herd of Shorthorns. Sixteen-hundred-pound, dual-purpose,
Shorthorn cons that produce upwards of
50 and 60 pounds of Shorthorn cows that produce upwardsose, of
50 and 60 pounds of milk per day are not
very plentiful country, and when spereaking herds in any
land herd, owned by land herd, owned by Jno Elder \& Sak
of Hensal, Ont, it is is not of hensall, Ont, it is not our intention
to say that Mr. Elder owns a large num-
ber of matrons that standard, but, as we have said in other
years there years, here are several big, deep cows
among the Oakland breeding females
that that come very close to this ideal. Th
more noticeable of these are diret cendants of the noted are direct des-
foundation cow Lady Waterlond her Ioundation cow Lady Waterloo (imp.),
whose ofspring have all been far above
the whose offspring have all been far above
the ordinary for milk production. From
these dams Mr Flder bat of young breeding cows and heifers all
got by the former herd sire sotch Grey, whose success in this herd was
perhaps, equal to that of
Canada perhaps, equal to that of any other
Canadian Shorthorn sire. His vear-old
daughters, daughters, about eight in number, are
as good a lot of thick, typey heires we have seen from any they heifers as They, as all the cows in fact, are in
calf to the present herd sin 42 nd . This bull is by the well-known good-breeding sire Best Boy, while his'
dam is one of the choicest breeding cows in the Nicholson herd, and was pot by the old-time favorite Spicy Count. It will
be remember sele, only one other bull equalled the
price paid by Mr price paid by Mr. Elder for Crown Jewel
42nd. At the time of our visit to the farm in At the time of our visit to the
farm inember his first calves in the
her herd were six in number and all were
heifers. There are bulls advertised are, however, six young
are of servent, all of which are of serviceable age and got by Scotch
Grey. These, like the heifers in the herd by this sire, are a choice to in the herd all are reds or roans, with the latter color predominating. Those who are now in
need of a new sire can find plenty of herd need of a new sire can find plenty of herd
sire material here. Look up the adsire material here. Look up the advertisement elsewhere in . Idder at once for further
wratticulars. particulars.
A Quality lot of Well-bred Shorthorns. When visiting the farm of 750 good Ontario acres, owned by Thos. Mercer,
of Markdale, Ont., it is not the size of the farm that attracts one's attention most; neither is it the splendid herd of
100 pure-bred Shorthorns but the combination Shorthorns, but rather the general neatness of the farm, the buirings, and the surfoundings. A
striking feature of Mr. Mercer's farm is
the system the system which he has established,
comprising almost every known moder Comprising almost every known modern
convenience. There are many interestconvenience. There are many interest-
ing things about the place; the hydro, the light tractor, the indiviciual the thresher, ett., all of which would be of interest but,
for the present, space is limited and it is for the present, space is limited and it is
to the Shorthorns we wish to draw your attention. At present the two bulls,
Rosewood Champion, 72772 , and Christ mas Gift are the chief sires in service The former is got by the great bull,
Nonpareil Archer Imp., while on his damareide Avery cow in the pedigree easily one of the best-bred bulls in Canada to-day, and a thick, straight fellow himself, it is little wonder that his offspring now in the stable are the most promising
things ever raised on the farm. Christmas Gift, the second sire in service is a strongly bred Duchess, descended from
the great Duchese 42 nd the great Duchess 42 nd. Imp., by Village
Archer, and sired by the good breeding bull, Broadhooks Golden Fame (imp.), Two stronger bred bulls seldom see service in one herd. With regard to
the females, the Clarets are eight in number; Village Girls and Minas number will Marr Missies being well up in the two figures. Such families as Mysies, Butterflys, Broadhooks, etc.,
all come in for two and three each making in all one of the strongest-bred herd for some time. There are also a number or big, deep, well-bred ferelord
cows at the upper farm, along with ten young bulls of the same breed, and among
these are hese are a number of strong herd-sire
material. The cows are all young and well along in calf to good sires. Several
of these cows have size and smoothness hatlo coum hand considerable attention in any show-ring in Canada next year.
Correspondence is solicited at all times.

## EDDEARDSBURG PROTEN GLUTEN FEED <br> GUARANTEED

The Feed for More Milk
This Gluten Feed enables you to feed the cows a properly balanced ration, containing all the Protein they will eat and digest and turn into milk
We have a book about it. Write for a copy-and learn how many farmers and dairymen are feeding for more -Fatten Hogs on Edw

066
WORKS AT CAROINAL, BRANTEORD, FORT WILLAM TORONTO


Now that the year is drawing to a close have you figured out the profits of your farm? ARE YOU SATISFIED?
If you feel that yous should be doing better-should be getting bigger returns for all your work-why not consider the possibilities of Western Canada ?
Write for any or all of our, free booklets, "Homeseekers \& Settlers
Guide," "Peace River Guide," and "British Columbia Settlers Guide," , Que., or Toronto, Ont

## CANADIAN NORTHERN RAILWAY

 SILVER STREAM FARM HOLSTEINS

## CLOVER BAR HOLSTEINS

 DUMFRIES FARM HOLSTEINS S. G. \& ERLE KITCHEN ST. GEORGE, ONT. A HOLSTEIN HERD YOU SHOULD KNOW
 WALNUT GROVE STOCK FARM




Alumeshaugh Ayrshires and Yorkshires Three young bulls, fit for service; sons of Hillside Peter Pan and
R. O. P. dams. These were winners at Toronto and London A few young sows and boars of good quality and priced right Alex. llume \& Co., Camphelliford, Ont., R.R. Mo. 1
Gladden Hill Ayrshires Winers, wherever shown-Herd headed by Fairview Milikaid; ;ire Cow with 729 libs of fat; average eest 4.36 per cent. We have three 12-month bulle that were winnere
 Lreadrs. Will sell one. P. P.ice reasonable. .N.R., Shlpplng Statione, Aglncourt, Ontarlo. Herd Sires: Netherton KIng Thioodoro Imp., and Humeshauth In

 HILLHOUSE AYRSHIRES-F. H. Harris, Mit. Egin, Ont.
 THE DON JERSEY HERD-

T) ITM Skunk, Red Fox, Coon

 FURS C. H. ROGERS Walkerton, Ontario
 Jerseys and Berkshires
 We brid and hare yanty production at the paild
 HOOD FARM.
$\qquad$
SHROPSHIRES 30 Yearling Rams - 12 Yearling Ewes.
W. H. PUGH, MYYRTE STATION. W. R.
Farm 2 miles from Claremont Cloverdale Shropshires and Berkshiree-40 an exceptionally shearting rame, 70 sheartling ewes tot true to to tye and well
grown; nearly all sired by the show ram Nock 16
mo In Berkshires the then grown; nearly all sired by the show ram, Nock 16
Imp, In Berkshires, the usual strong ofering, in
cluding sows just bred.C. J.LANG.Buyketon,Ont.
 lag and two shearting ewes not refisisered. 10 year-
lambing this month. Will sell this bunch cheap
for auick sale Ont.


Tower Farm Oxfords Champion Oxford flock of Canada. Choice Oxfords
of all ages for sale. Prices reasonable. E. BARBOUR \& SONS, R.R. 2.Hillsburk, Ont. TWO GRAND YOUNG Berkshire Boars The kind you have been looking for; big of bone,
smooth, long and deep. easy keepers and bacon
typee. Sired by imp. Sudden Torredor, and from a type. Sired by imn. Sudden Torredor, a and from a
splendid dam.
and will be priced right. boars are now fit for service Tawadina Farm. Maj. J. F. Lash, Prop.; J. W. Sangster, Mgr.

## PEDIGREED

TAMWORTHS Several sows, 2 years old, in pig.
Also younger stock.
Writes Herolds Farms, Beamsville, Ont.

## Morriston Tamworths and Shorthorns-

 Mormand. Bred from the prizewinning herdsof Englan. Tamworths, both sexes; boars from
2 to 12 months. Shorthorn bulls from 5 to 10 CHAS. CURRIE. Morriston. Ont. Meadow Brook Yorkshires Fifty young pigs from five litters, weaned and
ready to wean. Pairs not akin. Also a large choice
of young sows near breding age pred
G. W. MINERS R. R. No 3 CHOICE YORKSHIRES All ages and both sexes, at right prices. A few bred
sows and several eung liters an extra sperial
Als varieties, Turkeys, Geese and Ducks, S. - . BERKKSHIRE PIGS, A. KING. Milton. Ont
by Successor's Double II. bred by bexes, heade

 Gredit Grange Farm, Meadowvale. Ont.
BEAVER MEDI CHESTER WHITES
won over $75 \%$ of the prize monev at Toronto won over 75Co of the prize mone wat Toron
year with three herds showng Write fo
sows or young boars. We guarantee us
We alis Wm. Roberts \& Sons, Peterboro, Ontari Sunnyside Chester Whites and Dorsets. In
Chester whites we have both sexes, any agee. brect
irom our champions of many years. In Dorsmt

## TAMWORTHS

## Gossip.

Irvinedale Shorthorn Salos. Since writing "The Farmer's Advoate"
last, John Watt \& Son Elora made several good sales from their Itrine dale herd, which they report as follows: "To Robert Cummings, Elora, Ont., we have sold one cow and three heifers, a Matchless, a Merry Maid and two
Stamfords. Mr. Cummings is starting in the Shorthorn business and made a in the Shorthorn business and made a
good selection. To Messrs. Carrol \& good slection. To Messrs. Carrol o
Lightle, of Orangeville, went a goor Lievite, of Orangeville, went a good
elevenonths bull, sired by Gainford
Select Select and from an imported cow. Percy Dekay, St. Jacobs, Ont., has taken our
former stoct Iormer stock bull, Gainford Select. Thi
sire has done a lot of good in our herd sire has done a lot of good in our herd and
is sure to do the same for J. M. Gardhouse, of Weston, took the twin-bull calf, Gainford Sultan, sired by Gainford Marquis, and out of Sultan's Fancy, probably the only cow in Canad
that was a first-priz

 bred by Duthie and sired by his Highland
champion. Pride sid chanpyion, Pride of Morning, We are
retaining Gaidord Sultan's twin brother Marquis Surarere, ,or our own use. We
have two good roan whll left They are about fifteen months old and sired by Gainford Select
nine choice grand
(imp.), ranging in agghters of Right Sort months, and representing such to fifteen the Stamfords, Claras, Diamonds tildas and others. We are pricing these
cattle for a quick sale.

Sunny Acres' Aberdeen-Angus Many of our readers who follow more
losely the news of Aberdeen-Angus winnings, etc., at the time of the summer success which crowned the effortser the Sunny Acres herd at Toronto and Ot the last September.
many of the largest and oldest herds in prietors, Messrs. Chann for their prolaurels which gave them \& Son, many number of firsts as well as a considerable pionship ribbon. The grand champibull, Elm Park Pat, referred to is the senior sire at Sunny Acres, and speaking from observation made during a recent
visit to the farm by the writer, the five young bulls by this noted champion, that are now in the stables, are quite suficient in the way of evidence to place
Elm Park Pat amongst the best sire of the breed in Canada. Several of
them were winners at both Toranto and Ottawa, but they have done excep-
tionally a goodly number of thick There are also a mong the younger things in the stable by this sire and these are being mated Lad (imp.). He is got by the noted sire, Prince Albert Ito, a bull that is now 14 years old and has been in con-
tinuous service on the farm of Stanley
Pierce at Pierce at Creston, Ill., ever since he wa Prince Ito (imp.), was the highest
priced bull of the breed ever sold of the daughters of From the Elm Park mating
and to a son of this latter sire, Messrs. Chan-
non\& Son, may well expect some pleasing
results. In the few reminime allotted space we must mention the
families represented among the breeding families represented among the breeding
females which consist of Drummond Lucys, Rosebuds, Pride of Aberdeen,
Heather Blooms etc. The first and

All over the country-in town, almost county and farm--there ist on every landthatneedsunderdraing to be at all profitable
Owners are ready and waiting to have this ditching done by BuckeyeTraction Ditchers and will pay good prices Why wot work.
tween-times job or a year round You can make it a way it will pay you big. Some ditch business. Either day and up, depending of course on circumstances; but Heyth anyway youn lookg at courst the on circsumstances; but Herer ind ina letter frim Mr. H. W. Sherrard, of Twelve Miles





$\qquad$




APerfect Trench atOne Cut"


## 51st Annual Dairymen's Convention and Dairy Exhibition DAIRYMEN'S ASSOCI EAT WESTER

Stratford, Ont., Wednesday and Thursday, Jan. 16 and 17, 1918
R. W. STRATTON, Pres.

HERNS, Sec.-Treas.
London, Ont.
$\underset{\text { Chotco Bulla and Females. }}{\mathrm{RE}} \mathrm{CO}$ PERFORMANCE JERSEYS

 EDGELEY STOCK FARM
The hume of Canada's greatest producing Jersey, Sunbeam of Edgeley, the Sweepstakes Dairy Cow
at the recent Guelph test, is also the champion R.Q.P. butter cow for Canada. Would a grandson or
great great-grandson of this famous cow improve your iherd? We have them. Write for prandiculars.
JAMES BAGG \& SON,
(Woodbridge, C.P.R., Concord, G.T.R.)
EDGELEY, ONT. WOODVIEW FARM The foundation of MOST Rerd is meade up of very high-class cows, imported from $\begin{array}{ll}\text { WOODVIEW FARM The foundation of this herd is made up of very high-class cows, imported froin } \\ \text { JERSEYS } & \begin{array}{l}\text { the island of Jersey, most of them in the Record of Performanee, and while } \\ \text { we have }\end{array} \\ \text { we hat at all times, a few mature cows for sale, we make a specialty of }\end{array}$ LONDON, ONTARIO in have, at all times, a few mature cows for sale, we make a specialty of
John Pringle, Prop. see the herd. We woug bulls. Write us your wants, or better still, or ome and
show cows and show our work cows

## BRAMPTON JERSEYS

Special offork. The ancestors of these bulls have made and are making Jersey history. No better
R. . P. stock
stock can be obtained. B. H. BULL \& SON, BRAMPTON ONTARIO
"The Maples" Stock Farm-R. S. Robson \& Son, Props., Denfield, Ont


## YORKSHIRES



## 4 <br> ELMHURST LARGE ENGLISH BERKSHIRES <br>  <br> OAK LODGE YORKSHIRE HOGS

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



Market Comments.
Toronto (Union Stock Yards)
Cattle receipts at the Stock Yards for the week totalied thirty-five hundred head
or about half of the usual weekly run; or about halr of the usual weekky run
consequently prices held fairly steady in all departments, with an active demand prevailing. The number of choice killing cattle was rather limited, a large propor-
tion of the cattle being medium butcher cattle and canners. The ex ceptionally high prices that were paid last week were not duplicated in this week's trading. For a half load of heavy cattle, welve hundred and sixty pounds, $\$ 12.50$ was paid on Monday, while a load averagy as good quality realized $\$ 12$ per hundred. Other sales throughout the week were made at $\$ 11.50$ to $\$ 12$ per hundred. dred pounds, the best sales were: one head, 12 ; seventeen head, eleven hundred hundred pounds, \$11.25; twenty-one head, eleven hundred and fifty pounds, 10.90; and twenty-seven head, eleven hundred pounds, $\$ 10$. Other good sales
ranged from $\$ 10.50$ to $\$ 11.25$. A few choice baby-beef animals realized fancy prices, two choice on Monday realizing at $\$ 12$ to $\$ 13$. Straight loads of good killing cattle in this class sold as high as 11.50 , twenty-nine head of nine hundred and fifty pounds bringing that price, hundred and eighty, averaging nine $\$ 11.25$, and twelve head averaging nine hundred and twenty pounds, $\$ 11.20$ Other good sales were made at $\$ 10$ to $\$ 1$ per sondred. Common and medium cat te sold at $\$ 8.50$ to $\$ 9.50$ per hundred elling on Wednesday or three sold on Monday at $\$ 10.50$ wer undred. Common cows brought $\$ 6.50$ $\$ 7.75$, and canners and cutters $\$ 5.75$ .25. Few choice bulls were on sale ne bung of twenty-one hundred pound theing s.0.50 per hundred. This wa $\$ 9.50$ to $\$ 10.50$ per hundred with bulls bringing $\$ 8$ to $\$ 9$. Bologna bull sold at $\$ 6.50$ to $\$ 7.50$. There was little prices were steady. Feeders were selling stockers to $\$ 10$ per hundred, and the best asked for some choice loads of the being Calves were active and steady choic veal selling from $\$ 15$ to $\$ 16$ per hund'red twenty throughout the week. $\$ 17.50$ to $\$ 18$ wa of choice lambs, wealizing $\$ 1825$, , load lambs for breeding purposes and ewe $\$ 18.50$. Sheep for a similar purpose sold from $\$ 14.50$ to $\$ 16$ per hundred, accord ing to quality. Since the inauguration
of the Free Freight Policy by the Live Stock Branch, Dominion Department o? Agriculture, on October 11, very few gone to the killing pens, while approxilambs, and thnusand head of sheep and been shipped out to Ontario farmers un-
der the supervision of the officers of the Branch.
Close to twenty thousand hogs were but several thousand of these were con-
ttle

Top Price Good Steers

|  | Receipts | CATTLE |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Top Price Good Steers |  |  |  |  |  |  |  |  |  |


| Week Ending | HOGS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Receipts | HOGS Top Price Selects |  |  |  |
|  | Week |  | Week | Same | Week |
| Dec. 20 | 1916 | Dec. 13 | Dec. 20 | Week | Ending |
| 14,085. | 11,245 | .10,631 |  | 1916 | Dec. 13 |
| 1,974 | 1,760 |  | 18.50 | 12.15 | . $\$ 18.75$ |
| 1,231. | 1,876 |  | 18.50 | 12.7 |  |
| 12,189 | 7,760 | 8,209. | 17.00 | 11.15 |  |
| 6,011. | 2,932 | 1,396. | 16.75 | . 11.15 | +17.00 .16 .80 |

Dominlon Department ef Agriccilume, LLve Calves
Receipts
Top Price Good Calves

| ek | Same | Week | W | Same | Week |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 20 |  | cing | En | Week |  |
| 491. | 19175 |  |  |  |  |
| 201. | 554. | 240 | . 15 | 11.00 |  |
| 180 | 834 |  | 15. | , |  |
| 180 | 67 | 200 | 8.50 | 9.0 |  |

SHEEP

TORONTT
Avge.
Union Stock
Price
Classification
Steers

Top
$\stackrel{\text { heavy finished... }}{ }$
$\quad 30 \ldots \ldots$
$\$ 12.10 \ldots \ldots \ldots$.
$\$ 11.50-\$ 12.50 \ldots \ldots .$.
$\$ 12.50$

STERRS
$700-1,000$
Heifegrs

## Cows good......

good......
common.....
good.....
fair......
common.....
good......
common....
good......
common.....

CANNERS \& CUTTERS...... $636 \ldots . . . \quad 6.00 \ldots \quad 5.75-6.25 \quad 8 . \quad 8.75$




(fed and
watered)
good......



other points. Notwithstanding this record run, prices held up remarkably well, while the bulk of the hogs sold on Monday were contracted for at $\$ 18.50$ per hundred for selects, fed and watered, or 50 cents below last week's close. This revel was maintained on Tuesday and Wednesday, and on Thursday the market advanced from 25 to 40 cents, closing at $\$ 18.25$ to $\$ 18.40$, fed and watered, and 18.50 weighed off cars. The hogs on the whole are showing good quality, the ranging from one hundred and ninety to one hundred and ninety-five pounds. Of the disposition from the Yards fo he week ending December 13th. Canadian packing houses bought 188 calves, 61
bulls, 4,076 butcher cattle, 12,855 hogs and 3,567 lambs. Local butchers made purchases amounting to 225 butcher calves, and 886 butcher cattle, 20.5 hogs and 609 lambs. Canadian shipments consisted of 54 calves, 103 milch cows, 90 277 hogs, 152 sheep and 101 lambs, Shipments to United States points were made up of 50 calves, 139 butcher cattle, 22 feeders, and 125 lamb
The total receipts from January 1 to
Derember 13 , inclusive, were 286,796 cattle, 45,831 calves, 162,090 sheep and tle, 45,641 calves, 165,088 sheep, and

480,127 hogs received during the corres-

## ponding period of 1916 .

## Montreal.

Receipts of cattle during the week were Iewer by seven hundred head than those
of the previous week. opened on Monday at prlces on a level with those prevailing at the close on Friday, but trading was inactive, and with the possible exception of canner stock, While there moved out very slowly. cows of much better quality than usual the average quality of the run was lower than for some time past, the receipts consisting largely of common to medium stock, mostly of light weight. During the latter part of the week, a number of and this gave additional slowness to the market. However, no price changes occurred, the light receipts evidently preventing any decline. One load of steers of fair quality weighing from eleven pounds sold at $\$ 11.75$ per hundred Steers weighing between ten hundred and twelve hundred pounds showed a lack of finish. A number of steers weighing ten hundred pounds sold from $\mathbf{8 . 4 5}$ to $\$ 10.75$ per hundred, and those weighing $\$ 7.50$ to $\$ 10.35$ per hundred. One heifer of choice quality sold at $\$ 11.25$ per hundred, and heifers of medium to good
grading sold from $\$ 8.50$ to $\$ 10,00$. A
considerable number of light dairy type were on hand, and sold from
$\$ 7$ to $\$ 7.50$ per hundred. Two very fet cows sold at $\$ 11$ per hundred, three others while most of those quaity sold at \$9.85, sold from $\$ 7.75$ to $\$ 8.50$, and quality from $\$ 7$ to $\$ 7.50$. Bulls sold well, two hundred. The majority of the off $\$ 11.25$ per how ever, were of poor quality, and sold
from 86.50 to 8850 . ters were fewer in number thers and cutand were well taken care of. Most of th, canners sold at 85.75 per hundred, and calves was steady at unchanged for vea but with a better quality run the average calves sold well at $\$ 7$ per hunds.
active under a good demand lambs was buyers. Choice lambs sold at $\$ 18$ pe averaged $\$ 17$. The best sheep offere sold at $\$ 13$ per hundred, and the ma common sheep brought $\$ 11$ to $\$ 12$ per

Receipts of hogs were light, not enoug packing houses are purchasing on thei to buying at tie Yards but in addition these conditions sufficient supplies are
lacking. Selects sold on Monday at $\$ 18.50$ per hundred, fed and watered, and maintained that price during the fairly steady with no indications of a fogs being received is number of light hogs being received is increasing. Prices
for this class of hogs are high on account of a good outlet existing through the reof ail pork trade.
Pt. St. Charles.- Of the disposition
from the Yards for the weel from the Yards for the week ending December 13, Canadian packing houses and
local butchers purchased 240 calves, 470 canners, 194 bulls, 822 butcher cattle, 929 hogs and 695 lambs. Canadian ship-
ments were made up of 77 canners and ments were made up of 77 canners and
15 butcher cattle. No shipments were made to United States points during the
week. The total receipts from January 1 to cattle 53,650 calves, 70,977 sheep and 76,054
hogs, compared to 52,971
45,127 cattle,
calves, 57,308 45,127 calves, 57,308 sheep and 84,615 hogs, received during the corresponding
period of 1916. EAST END.- Of the disposition from the Yards for the week ending December 13,
Canadian packing houses and local Canadian packing houses and local
butchers purchased
115 calves,
1,667 butchers purchased 115 calvec, 1,667 Canadian shipments consisted of 145 butcher cattle. No shipments were made
to United States points during this week. to United States points during this week.
The tital receipts from January 1 to December 13 , inclusive, were 55,934 cat-
tee 49,491 calves, 49,186 sheep, and 46 , Dece, 49,491 calves, 49,186 sheep, and 46,-
462 hogs received during the correspond462 hogs; received during the correspond-
ing period of 1916 .

Buffalo.
Cattle.-Offerings of cattle were com-
paratively light last week, resulting paratively light last week, resulting a quarter higher. Values on shipping
steers have declined all the way from three steers have declined allune way from three from the high time on choice grades, and the result was that buyers took hold
of these grades here very slowly, it being of these grades here very slowly, it being
a fifteen cent to quarter decline before any trading was done. Wholesalers who are killing shipping cattle maintain that
they have made no money of late months they have made no money of late months
and that more profit is being made on the medium and cheaper cow stuff than the steers. Best steers ranged generally from $\$ 12.50$ to $\$ 12.60$, with a load of
fancy, good weight
Canadian steers selling up to $\$ 13.40$. Yearlings ranged up to $\$ 13$ and $\$ 14$. Anything in the fat cow line sold readily. Feeling was strong on stocker and feeder stuff. Bulls
brought a quarter higher prices, with the better kinds of milk cows and springers selling from $\$ 2.50$ to $\$ 5$ pe. head higher, other strong. Receipts for the week totaled 2,400 head, as against 5,050 head
last week and 6,275 cattle for the corresponding week a year ago. Quotations:
Shipping Steers-Natives-Choice to
prime, $\$ 12.50$ to $\$ 13.50$; fair to good, $\$ 11.75$ to $\$ 12.25$; plain, $\$ 10$ to $\$ 10.75$;
very coarse and common, $\$ 9$ to $\$ 9.75$. very coarse and common, Cadians - Fancy
Shipping Steers C Canadian
grain fed s 13 to $\$ 13.40$ best grass, $\$ 12$ grain fed, $\$ 13$ to $\$ 13.40$; best grass, $\$ 12$
to $\$ 12.50$ f fair to good, $\$ 11.50$ to $\$ 11.75$; Butchering Steers Choice heavy,
$\$ 11$ to $\$ 11.50$; Fair to good, $\$ 10.50$ to $\$ 10.75 ;$ best handy, $\$ 11$ to $\$ 12.25$; fair
to good, $\$ 10$ to $\$ 10.50$; light and common to good, $\$ 10$ to $\$ 10.50$; light and common,
$\$ 8$ to $\$ 9 ;$ yearlings, choice to prime, $\$ 12$ $\$ 8$ to $\$ 9$; yearlings, choice to prime, $\$ 1$
to $\$ 12.50$; fair to good, $\$ 10.50$ to $\$ 11.25$.
Cows and Heifers-Best heavy heifer $\$$ Cows and Heilers- $\$ 10.50$; good butheavy heiler,
$\$ 8.75$ to to $\$ 9.75$; fair butchering heifers, $\$ 8.75$ to $\$ 9.75$; fair butchering heifer, $\$ 0.87 .75$; very fancy fat cows, $\$ 10$ to
to
$\$ 9.25$ bet heary fat cow, $\$ 8.75$ to
$\$ 9.25$ good hutchering cows, $\$ 7.50$ to $\$ 8$; $\$ 9.25 ;$ good huthering cows, $\$ .50$ to $\$ 8$;
medium ther, $\$ 6.75$ to $\$ 2.5$ Cutters,
$\$ 5.75$ to $\$ 6.25 ;$ canner, $\$ 4.50$ to $\$ 5.50$, $\$ 5.75$ to $\$ 6.2 .2$; canners, $\$ 1.50$ to $\$ 5.50$.
Bumb-Bet heavy $\$ 9$ to $\$ 9.50$; good
butchering, $\$ 8.50$ to $\$ 750$. butchering, $\$ 6.50$ to $\$ 750$.
Stockers and feedels-Best feeders, $\$ 9$ to $\$ 9.75$; common, $\$ 5$ to $\$ 5.75$.
Milchers and Springers-Gord to best, Milchers and Springers-Good to best,
in mall lot, $\$ 100.00$ to $\$ 140.00$; in
carldade, $\$ 85.00$ to $\$ 10000$. carldad:, $\$ 85.00$ to $\$ 100.00$.
Hogs.- Some very heavy declines were
noted in prices here last week, the drop noted in prices here last week, the drop
being on account of the market at Buff.t.l,,
the week previous being altongether two
hiigh compared with other point. On the
$\$ 16.50$ and $\$ 16.60$. Pigs the fore part with roughs $\$ 1575$ to $\$ 16$ and $\$ 16.25$, the week was out or on Friday buyers landed the bulk of the pigs and roughs
down to $\$ 15.50$. were 32,600 head, as compared with 27,266 head for the week before and 41,500 head for the same week a year ago.
Sheep and lambs-Market at Buffalo last week, notwithstanding that lamb values showed a heavy decline after at any other marketing point Monday best lambs sold at $\$ 19.25$ and Tuesday a few reached $\$ 19.35$. Wednesday's top dropped to $\$ 18.85$, Thursday none Chicago, quoting best lots at $\$ 16.65$, Buffalo's range was from $\$ 18$ down. Cull lambs brought within $\$ 1$ to $\$ 1.50$ the past week. Yearlings reached higher $\$ 16.50$, wether sheep, majority of which were wo-year-olds sold up to $\$ 14$ and old
ewes went from $\$ 12$ down. Receipt last week were 13,500 head, as against 8,756 head for the week previous and 20,800 head for the same week a year 20,800
ago.
Calv
veals
Calves-Last week started with top
veals selling at $\$ 17.50$, culls brought toals selling at $\$ 17.50$, culls brought up $\$ 6$ to $\$ 9$. Demand aftere Muoted Monday con tinued good and prices the next four days were held steady. Last week receipts
totalled 1,500 head, being against 1.515 head for the week previous, and 2,350 head for the corresponding week a year ago

## Toronto Produce.

 I.ive stock receipts at the Union Stock Yards, West Toronto, Monday, Dec. 24, were: 57 cars, 875 cattle, 29 calves, 966 hogs, 354 sheep and lambs. All cattle steady at last week's prices. Sheep and calves steady; lambs 50 cents lower Hogs, $\$ 18.50$, fed and watered.Breadstuffs.
Wheat.-Ontario, (basis, in store, Montreal.) No. 2, winter, per car lot including $21 / 1 \mathrm{cc}$. tax) store, Fort William, $\$ 2.231 / 2 ;$ No. 2, northern, $\$ 2.20 \frac{1}{2}$; No. 3 , northern, $\$ 2.171 / 2$; No. 4 wheat, $\$ 2.101 / 2$. Oats.-Ontario, according to freights outside, No. 2 white, 77 c . to 78 c ., nominal ; No. 3 white, 76 c . to 77 c ., nominal; Manitoba oats (in store, Fort William) -No. 2 C. W., 80 c.: No. 3 C. W., $761 / 2 \mathrm{c}$.

## $731 / 2$ Ba

de) malt-(According to freights out Peas o. 2, $\$ 3.70$ to $\$ 3 \times 0$ to freights outside) Buckwheat.- (Acrording to freights
outside) $\$ 1.50$ to $\$ 1.55$ outside) $\$ 1.50$ to $\$ 1.55$.
Rye.- (According to freights outside) Rye.-(According to freights outside)
No.,$\$ 1.78$.
Floir - Manitoba first patents in bass, $\$ 11.50$; second patents, in jute bags, $\$ 11$; strong hakers', $\$ 10.60$; Ontario
winter wheat flour, according to sample in hags, $\$ 9.95$; Montre
$\$ 9.70$, bulk seaboard

Hay and Millfeeds
Hay--Track, Toronto, No. 1, new, per
on,, 15.50 to $\$ 16.50 ;$ mixed, per ton, $\$ 13$
Straw.-Car lots, per ton, $\$ 9$ to $\$ 0.50$. Shorts.- Per ton, $\$ 10$; middlings, per bag, 83.25 Hides and Wool. City Hides.-City butcher hides, green,
Hat, 20 c ; ; 'calf skins, green, Hlat, 23 c .; Hat, 20 c, ; calf skins, green, Hat, 23 c. .;
veal kip, 20 c , horse hides, city take-off $\mathbf{\$ 5}$ to $\$ 6 ;$ city harse hides, city take-off, pelts, $\$ 1.50$ to $\$ 2.25$; sheep, $\$ 2.50$ to $\$ 4$.
Country Markets. - Beef hides, flat, cured, 18 c , to 19 c ; deacons or bob calf, take-off, No. $1, \$ 5.50$ to $\$ 6 ;$ No. $2, \$ 5$ to
$\$ 6$ No 1 sheep skins, $\$ 2.50$ to $\$ 3.50$. Horse hair, farmers' stock, $\$ 25$. to $\$ 3.50$. barrels, i.3.c. to 1 tendered, country solids, in
harret, No. in
1, 12c. to 1tic.; ; cakes, No. 1 ,

Every farmer who desires to do business with The Molsons Bank is always assured of a courteous reception by local managers. And their object is to assist the farmer in a legitimate way, to make his land and stock more productive.

## How About Swoet Clover?

 You have been thinking about it.Each year a few thousand more of our farmers are trying it out. Thei experiences range from mildil
favorable to the extremely enthusi astic. Its value as a sure grower. a splendid food prosucerer and
wonderful soil builder is well wonderful soil builder is well
established. As a better fod estabished. As a better fodder
crop, a bigger seed producer, an crop, a soil builder, we are offering our improved selected strain 1
is known as Canadian Alo is known as Canadian Albotrea
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descriptive pamphlẹ. It will tell you all about it.
Canadian Albotrea Clover Co

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& \text { Warehouse and office }
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& \text { LISTOWEL, ONTARIO }
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## BEESWAX WANTED

WE PAY THE HIGHEST MAFKE
The Tillson Company, Ltd.
TILLSONBURG. ONT
Snow Ploughs
Snow Ploughs for Sidewalks
Stone and Stump Pullers
A. Lemire, Prop., Wotion, Que

| FOR SALE |
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Country Produce.
Butter.-Prices firmed slightly on the
wholesales during the past week, sellin wholesales during the past week, selling
as follows: Creamery fresh-made pound squares, 4 Sc . to 50 c . per 1 b ; cut creamery 4 sc . per lb.; creamery solids at 44 c . to 46 c c
per 1 b .; separator dairy 44 c . to 45 c . 1br, lb.; separator dairy 44 c . to 45 c .
Ind c .
Oleomary, 37 c . to 38 c . per lb.

Eggs--New-laid eggs are very scarce
and firmed a trifle wholesale, selling as
65 c . to 70 c . per dozen. Cold storage,
vanced materially as follows: (Dressed: Prices paid to producers)-Chickens, milk
fed, 28e. per lb.; chickens, ordinary, fed,
 20 c . per lb., fowl, 5 lbs. and over, 22 c
per lb .; ducks, 26 c . per lb .; geese, 24. per lb.; ducks, 26 c . per lb .; geese, 24 c .
per lb.; turkeys, young, 35 c . per lb .; Wh, old, 30c. per lb.
Wholesale Fruits and Vegetables. Apple prices have remained practically
unchanged with an artive unchanged with an active demand
Ontarios ranging from $\$ 4.50$ to $\$ 8$ per
bbl. Nova Scotias from $\$ 4.50$ to $\$ 6.50$ bbl. - Nova. Scotias from $\$ 4.50$ to $\$ 6.500$. per bbl.; Western boxed at $\$ 2.10$ to $\$ 275$. Potatoes did not vary in price, Ontari bringing $\$ 2.10$ par bag and New
wicks from $\$ 2.25$ to $\$ 2.35$ per bag.

## YOU MAY HAVE ONE OF THESE KITCHEN SETS IN YOUR KITCHEN

THERE ARE MANY OTHER USEFUL ARTICLES TO CHOOSE FROM


For Two New Subscriptions this Sani-all-metal Roasting Fork, Paring Knife Waved Edge Bread Knife, Carvin Knife and Meat Saw. Bright finish Exactly as illustrated.
. buy one of these Kitchen Sets wholesale to-day would cost you $\$ 1.50$ or more.


Montreal Produce.
Horses-Very little demand existed
in the horse market last week, and it is possible theat morthing most week, mand it is is

 weighing 1,400 to 1,500 tbs, $\$ 175$ to
$\$ 225$ each; small horses $\$ 150$ to each; culls, $\$ 75$ to $\$ 125$ each; good
saddle and carriage horse, $\$ 200$ to $\$ 250$ Poultry--Some very nice poultry was
available in the market and prices were not regarded as out of the way by com-
parison with price of beef. The turnover has been fairly large. Turkeys were
quoted at 32 c . to 3tc. per 1b, while fien chickens ranged around 26 c . to 28c., and 19c. to 23 c a and ducks 26 c . to 27 c .
were about the same Dressed Hogs.- The tone for dressed but prices showed no great change.
Fresh-killed at $251 / 2 \mathrm{c}$. to 26 c . per lb ., and country dressed hogs were in good demand, a
Potatoes.-Offerings in the local market
have been somewhat have been somewhat larger of late, and
although demand has been although demand has been very good, and prices were somewhat lower sell, lots of Green Mountains were quoted
at $\$ 1.90$ to $\$ 2.00$ per bag of 90 lbs at $\$ 1.90$ to $\$ 2.00$ per bag of 90 lbs , ex-
track. In a smaller way track. In a smaller way, this stock
changed hands at $\$ 2.10$ per bag of 80 lbs., ex-store.
Honey and Honey and Maple Syrup.-There was little maple syrup available, and the
price ranged generaily from $\$ 1.40$ to $\$ 1.80$ per gallon of 13 lbs ., in tins; sugar is 15 c . per lb. Honey held quite firm,
and was in fair request. White clove and was in fair request. White clover
comb was 19c. to 22c., and brown 17c comb was 19c. to 22 c., and brown 17 c .
to 19 c . per 11b., while white extracted
was 17c. to 18c.
Eggs.-The production of eggs is now
light throughout the whole country light throughout the whole country,
Dealers declare that it isalmost to get really fresh eggs. They, however quote these at 60 c . to 65 c . per doz. for
best, and 54 c , to 55 c . best, and 54 c . to 55 c . for ordinary fresh,
with Fall fresh at 50 c storage eggs were steady at 45 c . for selects, 41c. for No. 1, and 38c. for No. 2.
Butter.-Trade Butter-Trade in margarine has not
yet reached any particular volume yet reached any particular volume, of time. Meantime, creamery is holding its own at $41 \mathrm{l} / \mathrm{cc}$. to 42 c . to cover fine
to finest September and October makes. to finest September and October makes.
Current receipts of creamery are avail-
able at 40 c . to 41 c . and dairies able at 40 c . to 41 c . and dairies at 35 c .
to 38 c .
Cheese.-Commission prices are $213 / 4 \mathrm{c}$.
for No. $1 ; 211 / 4 \mathrm{c}$. for No. 2 and $20 \% \mathrm{c}$. for No. 1; $21 / 4 \mathrm{c}$. for No. 2 and $203 / 4 \mathrm{c}$.
for No. 3. No. 3 Canadian Western and extra No 1 feed are $89 y / 2$ c., per bushel; No. 1 feed
85 c ; No. 2 feed, 82 c .: Ontario No white, 84c.; No. 3 , 83 c . per bushel, ex-
store. Manitoba sample wheat sold at $\$ 2.05$ to $\$ 2.18$ per bushel, ex-track and feed barley $\$ 1.251 / 2$ per bushel, extrack.
Flour.-There is no change in the market. $\$ 11.60$ per barrel, in bags; quoted at $\$ 11.10$ and strong in bakers;', sceonds are
$\$ 0.90$. Onario winter wheat flour is changing hands in wood, and $\$ 5.20$ to $\$ 5.35$ in bags, patents Millfeed. The market is very firm with bran at $\$ 35$ per ton; shorts at $\$ 40$;
middlings, $\$ 48$ to $\$ 50$; mixed mouille middlings, $\$ 48$ to $\$ 50$; mixed mouille,
$\$ 56$ to $\$ 58$, and pure grain mouille, $\$ 61$ to $\$ 63$ per ton.
Baled Hay.-Owing to the embara Baled Hay-Owing to the embargo
by railway companies, export to the ever, at $\$ 15.50$ per ton for No. 2 hay-
$\$ 14$ for No. 3 ; and $\$ 11$ to $\$ 12$ for clover $\$ 14$ for No. 3 ; and $\$ 11$ to $\$ 12$ for clover
mixed. mixed.
Hides.-Quotations this week are 22c Hides.-Quotations this week are 22c.
23c. and 24c. per lb. for beef hides,
Montreal inspection. Calf skins are 19c. to 20c. per lb. for grassers, and 28c.
to 30c. for veals. Horse hides are $\$ .5$ each. Tallow, scrap fat is $31 / 2 \mathrm{c}$, $\$ 4.25$ abattoir fat 8 c . and rendered tallow 16 c .
per 1 b .

## Chicago. <br> Cattle -Beeves, $\$ 7.25$ to $\$ 14.35$; West ersn steers, $\$ 6.30$ to $\$ 12.75$; stockers <br> feeders $\$ 6,25$ to $\$ 10.20$; cows and heifers $\$ 5.10$ to $\$ 11.20$; calves, $\$ 9$ to $\$ 16.50$.

Hogs.-Light, $\$ 15.30$ to $\$ 16.55$; mixed rough $\$ 15$ to $\$ 16.05$; pigs, $\$ 11.25$ to Sheep-Lambs, native, $\$ 12.50$ to

Ontario Agricultural College.
Christmas Examinations, 1917
First Year.- 1 . McCrimmon, 1021 ;
 Simpson, $929 ;$
Graham, $909 ; 10$, MacArthur, $914 ;$
. 9 , 879; 12, Deneau, 874; 12, Irvine, Cole, 874 ; Jamieson, $834 ; 17$, Munro, $825 ; 18$, 18 , laing, 823; 19, Smith, 817; 20, Chamberlain, 814; 21, Shoemaker, 812; 22, Jones,
809; 23, Macdonald, $803 ; 24$, Coon, 794 ;
 27, Clark, $749, * 12 ; 28$, Stirrett, 748 ;
29, Abadia, $743, * 3 ; 30$, Matthews, $739 ;$ 30, Watterworth, 739; 32, Maunsell, 736; 33, Gibbard, 725; 34, BA Maunser, 724 ; 35, Welch, 718; 36, Greaney, 708; 37,
Taylor, H. H., 707; 37, Sippel, 707,
39, But, 39, Butt, $705, * 3 ; 40$, Stott. $704 ; 41$, Webster, H. F. R., 703; 42, Katcharian, 699; 43, Rilett, 688; 44, White, 682, ${ }^{* 10}$; 45, Ross, $681 ; 46$, Lindala, $677 ; 47$ Laing, 668; 48, Devitt, 662 ; 49 Taylor W. D., 655; 50, Collier, 653; 51, Christensen, 642,52, Bell, $649,{ }^{12} 12 ; 53$, Goodier, 607, *12; 5 , Sirrs, $604 ; 57$, Brown, S. A T. J., $585,{ }^{*} 2,12 ; 60$, Webster, F. ${ }^{2}$. 578, $* 5,12 ; 61$, Featherstone, $571,{ }^{2}, 3$; 64, Williams, $544,{ }^{2} 1,7 ; 65,{ }^{2}$, Hopkin
$526,{ }^{*} 3,12 ; 66$, Thompson, $515, * 6,10,12$ 526, *3, 12; 66, Thompson, $515,{ }^{*} 6$, 10,12 70, 4, 6, 12; 69, Lowrie, 489, ${ }^{2} 1,6,12$ List of Subjects. $-5,7,12$
2, Composition: 3 Arith. $\mathbf{1}$, English Literature 7, Fydrostatics; 5, Chemistry. 6 Drainage 9, Deld Husbandry; 8, Animal Husbandry 12, Veterinary Anatry; 11, Apiculture

$$
\text { maximum } 1200 .
$$

Second Year.- 1, Hopper, 931; 2, 876; 5, Currier, 886; 6, Has, Zavit 6, Harris, 851; 8, Hood, 847 ; 9 , Hall, 843 10, Murdoch, 838 ; 111 , King, 837; 12 Porter, $823 ; 13$, Begg, 808 ; 14 , Small
field, 800 ; 15 , Jamieson, 795 ; 16 , Mead 793; 17, Mckay, 791; 18, Leavens, 711 21, Arnold, $743,{ }^{*} 5 ;{ }^{2} 11$, Patterey, 749 ;
23, Patchett, $723 ; 26$, Wood, 712 ; 27, Scott, 08; 28, Fraser, $689 ; 29$, Silcox, 677 30, White, 643, ${ }^{*} 5 ; 31$, Whiteside, 595 , ${ }^{* 2}$. 2, Composition; 3. Surveying and Drain age; 4, Farm Mechanics; 5, Chemistry 8, Entomology; 7, Landscape Gardening Animal Husbandry; 11, Dairying 10 Veterinary Pathology.
maximum 1100
18isd Year.- 1, Delong, 956; 2, Grant 5, Odell, 879; 6, Hunter, 873 ; 7 , Oliver 10, 8, Musgrave, 836 ; 9 , Brink, 820 Munro, 795; 13, Ouail 780 . 795 ; 11 , 780; 15, Gunn, 776; 16, Sweeney, 764; 17, Aylsworth, 741, ${ }^{*} 1 ; 18$, Gowland, 734 ;
19, Malyon, $720 ; 20$, Caldwell, $687 ; 21$, Steckle, 683; 22, Tice, 681; 23, Higgins, 680; 24, Jones, $664 ; 25$, Mackenzie, 654 ; 26, Allen, 652; 27, Way, 649; 28, Matheson
643; 29, Stewart, $629 ; 30$, Anderson, 626 ; 643; 29, Stewart, 629; 30, Anderson, 626 ;
31 , Light, $600 ; 32$, Lamont, $594 ; 33$, Almey, 582; 34, Minielly; $56 \mathrm{Z},{ }^{594 ;}{ }^{5} ; 35$, Stillwell, $560,{ }^{*} ;$; 36, Cook, ${ }^{5} 547$,
List of Subjects.
2. Economics; 3, French; 4, Heat 5 Inorganic Chemistry; 6, Quantitative Chemistry; 7, Geology; 8, Botany; Entomology; 11, Bacteriology, Economic * Indicates subjects upon which pass
standing has not been obtained.

## Sale Dates.

Jan. 3, 1918.-John Knox, Millbank, Jan. 3, 1918.-Mrs. E. J. Jackson and Jons, Teeswater, Ont.-Aberdeen-Angus Jan. 29, 1918.-Victoria County purered Stock Association, Lindsay, Ont.Feb. 23, Iin, Ont.-Shorthorns.

# Contents of The Farmer's Advocate and Home Magazine 

Vol. LII.
JUNE 28 TO DEGEMBER 27, 1917.
Part II



|  |  |
| :--- | :--- |

Daily Progress............................... 1584
Daylight Saving: The So-called...... 1085
Distributions: Consider............................. 16417
of Brains....................................... 1512
Earnestness: A Little Bit More,
Needed.
Easy Work.................................. 1194
Education: Where We Get................... 1394
Educated Character Necessary in
Every Spade of Earth-Every Ani- 1618
mal Reared.................................
Experimental Work: De-centralize....... 1337
What......................................... 1583
Fair: A Better......................................... 1221
Farming in 1918
Farm Labor for Next Year..................... 1689
Farm Machinery and Repairs: The ${ }_{1194}$
Impoitance of...
Farm Mechanics: A Short Course in. 1431
"Farm Work for Munitions Men
Feed Branch Established
Fifty Years Old.
Fly Nuisance:
Folly of Freaks and Fakes at the 1249
Fairs: The
Food Control: Will it Remain After.............
the War?
Free Speech a First Principle of
Liberty..................................... 1877
Grading Essential in Live Stock........ 1393
Granary: Get the, Ready..................... 1221
Half Holiday for Farmers: A.............. 1305
Hardship Makes Strength................... 2040
Hay Making, Past and Present....... 1250
Hired Help: Give the, Some Re-
sponsibility............................ 1222
If...................................... 2040
$\underset{\substack{\text { Investment: A Safe, Profitable, Con- } \\ \text { venient }}}{\text { Farm }}$
Judging Featured..................................... 1337
Let us Reason Together................ 1617
tunity and Duty in......................................................................
Machinery: It Will Pay to Preserve 1393
Mark Farm Name Your Trade ${ }_{1546}$
Meat Supplies: Maintaining
Meat Supplies and Price Fixing ...... 1393

Milk Prices and Hog Production........ 2039
Mixed Parming With a Spe ialty....... 1086
Moderation: Sandy Lectured on..... 1278
Nature's Diary........1086, 1120,
$1394,1432,1474,1512,1544,1584,1618$,
$1654,1691,1729,1773,1508,1844,1878$
Nature's Diary ................................. 2004
Oleo: When it Comes.......................... 1659
Partyism Buried in Union................... 11553
Pasturing Roadsides................. 1156
Plow More or Graze More $-\ldots . .$. .......... 1156
Poult ry Situation: The
Prompt Publication of Bulletins and
Reports................................... 2039

December 27, 1917

| Press: Publicity of the Power Behind the | 1196 |
| :---: | :---: |
| Problem which must be Faced: A......... 2003 | Hay Fork: Let the, Help Mow, Back. 1160 |
| Produce Nuw-Repair Later............. 1156 | of the |
| Producers and Others...................... 1617 | Higgins: Dr. Chas. H., Lea |
| Producers on Committees: Put....... 1618 | Department of Agriculture the |
| Production: A Clear Statement | Higher Standard for Farmers: A ..... 1881 |
| Would Aid............................ 1727 | Hired Man: Place Responsibility on. 1350 |
| Production: Rounding Out the Busi- | Hoping for a Fair Deal |
| Publisher's Message........................1920 | Implement: An Hobo Gay .............. 1197 |
|  | Implements: Put, |
| Quality First..................................... 1119 | Irish Life: Traits and Stories of..1934, 1978 |
| Railways: A Start in Public 0 |  |

Railways: A Start in Public Owner-
ship of.... ...............
Repairs for Tractors.........................................1772
Sandy's Dream............................... 1338
Sandy Proves That He's a Scot..... 1106

Sheep: Clean............................... 16
Short Courses: Stretch Out..........
Sires: Might Aid in Distributing Bet-


| Text Books: Improve Our................... 130 The Bread to Win |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

The Bread to Win
"The Guid Auld Times"...................... 11654
Thresher: The Evolution of the.... 11751

Thresher: The Evolution of the......... 1474
Tractor Outlook
Transportation Problem: The......... 1393
Twenty-one
Two Points of View............................................. 1772
Uncertainty...................................... 1193
Union: The People Expeal
Union Government: The Platiorm of
War a Regenerator...................................................................... 1690
War a Regenerator.
War Elections Act: The..................... 1140
War Loan: Take Your Share of the.. 158
Waste: Reduce
Waste: Reduce While?
What........................... 12422
What Shall We Feed?............... 1771
Wheat: Thie Price of
Why The...................... 1511
Why Worthy?.................................. 1221
W.

THE FARM.
Agriculture is British Columbia's
Greatest Industry
Agricultural Policy in the Interests of
all the People: An ................. 1776
Annual Meeting of the Experimental 1811
Art in Public Schools: A Reply on...... 1692
Beans for Next Year's Planting:
Select the
British Columbia: The Farmer's Op-
portunity in
Canadian West: Impressions of the 1657
Cereal Conference: Recommenda-
tions of the Third Interstate........ 1196
Corn: Cure Some............................. 1549
Corn Crop: Cultivating the........ 1089
Democracy :Can We Preserve Our
Dominion Grange Elects Officers...........................
Do Farmers need a Higher Standard?
Do Farmers need a Higher Standard?. 2009
Drains Require a Good Outlet......... 1847
East Middlesex Notes.


THE FARMER'S ADVOCATE.

| Foot of the Foal: The ...................... 1773 | Raspberry Cane Borer....................... 1227 |
| :---: | :---: |
| Hackney History: A Little. | Root and Vegetable Storage............... 1590 |
| Heavy Horses: Demand for................. 1619 | Seed Potatoes: Select, This Fall 1554 |
| Hoofs: Over-grown ....................... 1223 | Slugs: Controlling............................1199 |
| Horse of the English Farm: The........ 1585 | Small Orchards: Further Notes on |
| Horse Feeding: Farm Wastes for....... 1729 | the Farmers'...................................... 1624 |
|  | Strawberries: New Varieties of.......... 1094 |
| Itchy Legs....................................... 1121 | Strawberry Plantation: Cover the....... 2012 |
| Judging Horses.................................. 1340 | Vegetables: Storage Place for |
|  | Vegetables Not Weeds........................ 1228 |
| More Use Better Mares.......................... 1087 | Vegetable Growers' Association Awards at London and Ottawa..... 1516 |
| Parts of a Horse: The Percherons for England | When Consumers Turn Producers...... 1256 |

Remounts.........................................
Respiratory Organs: Diseases of the,
(Articles I to XI):

| (Articles I to XI): | ILLUSTRATIONS. |
| :---: | :---: |
|  |  |
| Bronchitis | Aaggie Butter Baroness... |
| Broken Wind, Pulmonary emphysema or Heaves $\quad 1729$ | A Bit of "Netherwood" ....................... 2019 |
| ongestion of the Lungs............... 1546 |  |
| 1395 |  |
| asal Catarrh or Common Cold . 177 |  |
| Nasal Gleet................................ 165 |  |
| Pleurisy..................................... 1619 |  |
| Pneumonia-Inflammation of the |  |
| Lungs.................................... 158 |  |
| oaring ................................... 147 | Amid Pleasant Surroundings.............. 1224 |
| Strangles or | A More Beautiful Scene Than Skyscrapers and Tiers of Brick and Mortar. $\qquad$ 1158 |
| Shire Foal Shows................................ 1655Showing Heavy Horses.............. 1087Suffolk Punch in England, The ...... 2041 |  |
|  | American Boys in Paris..................... 1361 |
|  |  |
|  |  |
| What Records Show.................... 1195When a Horse Transport Sinks....... 1087 | Aviation: Young Women in the United States Who are Taking a Course in |
|  |  |
|  | Aviator Who Bombed the Krupp Works: French. |
|  | Ayrshire Breed: Conditions Under Which the, Has Been Developed.... 1939 |
| Apples: High Color in...................... 1129 Ayrshire Cows in Milk at Canadian Apples: What Will a Barrel of, Cost?.1128 National Class of |  |
|  |  |  |
| Apples: Wrapping, for Box Packing., 1398 | Ayrshire Cows in Milk at Canadian <br> National Class of.............................. 1735 |
| Apples a Comparatively Light Crop | Backus: Dr. Annie <br> Bacon Hog: The Chief Points of a.... 1818 <br> Bad ill Road Making or... 1124 <br> Barns on Sir Wm. Van Horn's Farm: |
| Apple Box: Points Regarding the Canadian. |  |
|  |  |
| Apple Embargo Likely to Remain: British. | Barns on Sir Wm. Van Horn's Farm: The. $\qquad$ |
|  |  |
| Apple Prospects Not Improved .......1591Apple Outlook: Eastern and Western. 1311 | Bennett: Di. F. E., St Thomas, Ont... 2017 |
|  | Bees: At Work Among the.............. 1128 |
| Apple Trees: Growing, From Seed Apple Trees: Yields of, At Different | Beef Cattle Judging: Type, Conformation and Quality, the Salients in |
|  |  |
| Ages. $166$ |  |
|  | Belt Lacing: Practical................... 1622 |
| Black Knot on Cherry Trees.............. 1311 <br> Blooming Period and the Fruit Season: The $\qquad$ |  |
|  | Benedictine Monastery of Einseideln: General Views of the Great............ 1853 |
|  |  |
|  | Berkshire: A Young.......................... 1657 |
|  | Berkshire Boar.................................. 1478 |
| Cabbages Can be Preserved: How.... 1697 | Berkshire Sow: Champion................ 1550 |
| Car Shortage: Prevent..................... 1516 | Bethlehem of Judea ........................... 1949 |
| Celery: Blanching .............................. 1129 | Bills of Birds: Some ........................... 2004 |
| Clean up the Warehouse $\qquad$ 112 | Bindweed: Field |
|  | Bishop: Aviator <br> Black Bass |
| Climax Fruit Baskets: Loading, in Cars. |  |
| Crawford Type in peaches................ 1398 |  |
|  |  |
| Dust Mulch in the Garden: A........... 1199 | Blackleg as it Appears on the Potato Plant. |
| Farm Orchard: Ideas Regarding the Treatment of a |  |
|  | Bleeding the Hog................................ 1880Boy Berry Pickers....... |
|  |  |
| Fruit: How Organization and Publicity Sell. | Boy Berry Pickers.................................. 1733 Bracing the Load............... 1094 |
|  | Brampton Autotone............................ 1513 |
| Fruit: Reasons for Poor Sets of.......... 1554 Fruit Area: Extending the, North- | Brampton Beauty Heir...................... 1589 |
| Fruit Area: Extending the, Northward........................................1938, 1975 | Bread-making: Cabinet for Controlling Temperature in. |
| Fruit Crop and the Market: The .... 116 | trolling Temperature in.................. 1628 Breeding Crate: One Type of.......... 1692 |
| Fruit Crop Prospects in August |  |
| Fruit Marks Act: General Notes o |  |
| the | Bridge of Sighs, Venice: The............... 2021 <br> Bright, Cheery House: A |
|  |  |
| German Trick to Ruin French Orchards.......................................... 1256 | BrittaniaBungalow in Ontario: A Charming..............................122 |
|  |  |
|  | Bungalo on Sir Wm. Van Horn'sFarm: The............................. 1225 |
| Horticultural Building at Ottawa Exhibition: The ................................... 1516 |  |
|  | Butter-and-Eggs................................. 1339 |
| Little Peach and Yellows: Symptoms |  |
|  |  |  |
|  |  |
| Mice: Mound Protection Against..... 1697Mice: Protection of Fruit Trees | Camouflage Protecting Italian Lineof Communication |
|  |  |
| From....................................... 1850 | Canadian Soldiers Helping Farmers in England |
| New England Fruit Outlook ........... 122 | Candy-stick Dolls with Marshmallow Heads. |
|  |  |
| Packing Apples: Modern Methods of. 1283 Peach_Borers: Dig Out, This Month . 1624 | Caravan: A Good Type of.............. 1099 |
|  |  |
| Peach Tree Borer: Mounding up to ${ }_{1095}$ | Carrying Baby and Basket: Method |
|  | Cathedral of San Marco, Venice |
| Peach Trees | Celery: Blanching With 12-inch |
| Plan in the Winter and Plant in the | Boards........................................ 112 |
| Spring ............................... | Cellars for Root and Vegetable Stor-age: Plans of |
| Potato Growers and Specialists in Conference <br> Pruning Methods: An Experiment Testing |  |
|  | Chapmanton Henty...............1092, 1400 |
|  | Chester White Sow: Champion......... 1621 |
|  | Christmas Gift Suggestions................ 1784 |



|  |  |
| :---: | :---: |
| Christmas Gifts Beavers Can Make．． 1746 Christmas Sport in Canada．．．．．．．．．．．．．． 1937 |  |
|  | City：The．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1950 |
|  | City Farm：A ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1360 |
|  | Clear the Way．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1548 |
| Climax Baskets：Showing Method of |  |
|  | Loading a Car With．．．．．．．．．．．．．．．．．．．．． 1094 |
| Clydesdales Coming Home from work |  |
|  | in Scotland．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 2005 |
|  | Coal Shortage：A Resulf of the．．．．．．．．．．． 2009 |
|  | Colony House：An A－shaped．．．．．．．．．．．．． 1730 |
|  | Confederation：The Fathers of．1090， 1233 |
|  | Cosy Corner：A．．．．．．．．．．．．．．．．．．． 1952 |
|  | Cotswold Ewe：A Champion．．．．．．．．．．．．． 1881 |
|  | Country：The ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1950 |
|  | Crerar：Hon．T．A 162 |
|  | Cyclamen：The |

Dairy Cows：Looking for Conforma
duction in． Dinner Wagon：
Doddies at Pastur
Doggie：A Brave．
Doggie：A Brave．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1280
Doing his bit in Greater Production．．
Dorset Pen
Draft Mare：
Draft Team An lrish
Per Day：A
Ducks Marching in Military Order to
Their Shed
Each Day Select Some Food Belongin to Each Group．．
Early Crawford：Section of．．．．．．．．．．．．．．．．．．．． 1358 Evener for a Plow：Four－horse．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 143 Evening Primrose $\qquad$ .1441
.1253
.1394

## Evergreens：A Wreath of．．．．．．．．．．．．．．．．．．．

Their Lives Daily to Rescu
Wounded on French Front．．．．．．．．．．．．
Farm Implements Ruthlessly De－ Fat Wether：The Champion．．．．．．．．．．．．．． 12846 Fat Wether：Champion，at Guelph．．．．． 1946 Fence：A Neat and a Good Wind Break Improve Farm Appearances． 1195 Field of Steel Where British Hold Freat Service at the Beginning of
First Woman Attached to the．．．．．．．． 1489
Ministry in France to the
Fishing for Fun
Four－horse Hitch：Speeding up Pro－
duction by t
Foxglove
Foxglove．
Francy Maid 2 nit
ribourg．Th 2nd $\quad-\quad 1523$
in Front of the Town Hall of Tree．．．．．．． 1231
Fribourg Costumes of 1830 ．．．．．．．．．．．．．．．．．． 1232
Gainford Matchless．
Gasoline：Moving With It．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1809
Power．Moving With Its Own
Garbity Golden Victor．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1846
Gay Lad ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1260
General Sir Douglas Haig，Gen． Germany Sign Post Left Behind in a

Getting Acquainted
Gladiol
tures and Receipts Per Cow the
Each of the Dairy Farms included Great Bur－reed
Greek Royal Family：The．．．．．．．．．．．．．．．．．．．．．．．．．．113
Grist Mill：The County Growing Into Money and Usefulness． 1

```
Hallowe＇en Decorations
```

Halma
Haunts
Haunts of the Blackfaces：The
Hay and Grain Rack for Sheep：
Hebon Beauty
Hebon Beauty Bonheur
Herd on Pasture．The
Hereford Sire：A Leading
Higgins：Dr．Chas．H
High Ideal
Hog Cabin：An Adjustable
Hog Cabin：A Rectangular
Hog Cabin：End Section of a Modern
Home of Mrs
Windsor，Ont
Horse－power：Prony Brake on Pul－
ley Ready to Test．
Horse－ring Decisions Depend on Con－
formation and Action
How They Look
How They Look
Humeshaugh Invincible Peter．．．．．．．．．．．．2046
Icc－house：Sectional View of Con－
crete

Implements：Taking the，to the Shed
After the Days＇Work．．．．．．．．．．．．．．．． 1157 Important Factors in Agriculture in
War and Peace．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 19 In a Newly－settled District．．．．．．．．．．．．．．．．．． In a Newly－
Intelligence． Intermittent Syphon Syst．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． In the Home of the Breed Irade． Italian Military Oven on the Trentino Front：A．．．．．．．．

Jesus in the Manger：The Child．．

King Fayne Alcartra．．．．．．．．．．．．．．．．．．．．．．．．．． 1594

King George and Queen Mary．．．．．．．．．．．．．．．．．．．．． 1659
King Ormsby Jane Reen Mary．．． Knitting Socks for Soldiers．．．．．．．

## Lady Impress



Lakeview Dutchland Hengerveld 2nd．．．．．．．．．．．．．．．．．．．．．．．．．
Lakeview Hengerveld Wayne．．．．．．．．．．．．． 1397
Late Blight Getting Started on the
Leicester E
Light，Clearing in B．C．．．．．．．．．．．．．．．．．．．．．．．．．．． 1692
Lillian of Sunny Acres．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1920
Litly．．．．．．．．．．．．．．．．．．．．．．
Litter：Little Fault Can be Found．．．．．．．．．．．．．．．．．．．110
With This．．．．．．．．．．．Can be Found
Little Ann Seton
Living－room：A Delightful．．．．．．．．．．．．．．．．． 195
Lottery：The Greatest in the World＇s
History．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．
Making the First Incision．．．．．．．．．．．．．．．．．．．． 1880
Manilla Manilla
Martin Lea Hero
Mason：Walt
Maxwaiton Co．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 14331
Maxwalton Commander．．．．．．．．．．．．．．．．．．．．．．． 2042
Maxwalton Queen
Merry Monarch
Middlebrook Pride 17
Milk：Drawing，to the
Milk Stand：A Typical．
Minerva Beet
Missen Huts
Missen Huts．．
Mountain Lass
Netherall Countermark
New Sign on．．．．．．．．．．．．．．． 1778
Sake Promenade．．．．．．．． 1100
Newton Loyalist．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1881
Nurses Who Were Decorated With
Buckingham Palace．．．．．．．．．．．．．．．．．．．．．．． 1361
Officials and Nurses of Base Hospital，
Unit No．4，U．S．A．，Received at
Buckingham Palace by King
Buckingham Palace by King
George and Queen Mary
George and Queen Mary．．．．．．．．．．．．．． 1112
Ontario Girl Helping in the Produc－ 19
tion Campaign：An．．．．．．．．．．．．．．．．．．．．．．．．． 1953
Oxford Majesty＇s Gipsy ．．．．．．．．．．．．．．．．．．．．．．．．．．． 12596
Pauline Colantha Posch ．．．．．．．．．．．．．．．．．．．．．． 1198
Peace and War．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 12480
Pearson：Lady．．．．．．．．．．．．．．．．．．
Pearson：Sir Arthur．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1286
Pershing：Major Gen．John J．．．．．．． 1100
Percherons：The Swift Six－horse
Team of，as They Appeared at the
Pet of the Regiment：The
Pet of the Regiment：The．．．．．．．．．．．．．．．．．． 1360
Piggery：Floor Plan of a Permanent．．． 1731
Plowing Match：A Scene at the
Plowing
1698
Plowing Match：The Best Crown
Put up at the
Poland－China Boar：First and Cham－
Popular Pastime：A．．．．．．．．．．．．．．．．．．．．1810
Potatoes Grown by a Wentworth
County Lad：Plot of
Pre－emptor＇s Barn in B．C．A．．．．．．．．．．．．． 17336
Pre－emptor＇s Home in B．C．：A A $\quad . . . . . . . . . .1936$

| Prickly Lettuce（Figs．1，2，3） |
| :--- |
| Pride of L．．．．．．．．． 11620 |

Prize Corn Plot：A Waterloo County 1733
Princess Bergere ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．
Prize－winner and Champions at the
Three Big Fairs．．．．．．．．．．．．．．．．．．．．．．．．．．．．
Procession Crossing the Square i
Front of the Church
Pure－breds：It Costs No More t
Pasture，Than Scrubs
Putnam：Mr．George A．．．．．．．．．．．．．．． 11687
Refreshing the Horses in Harvest．．．．．． 1087 Results of the Chase：The ．．．．．．．．．．．．．．．． 1732 Riby Perfect Model．．．．．．．．．．．．．．．1252， 1586 Riga，the Russian BaltidPort Recently
Taken by the Germans．．．．．．．．．．．．．．．． 1559

Straw berries in British Columbi．．．．．．．．．．．．．．．．．．．．
Part of the 5,000 Women Who
This Year Gathered
Stock－judgin
WinningSubmarine Beached for Repairs：ASuch a Head

Sweet Flag．
．A．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1934
Table：Setting the
Tank：Army Officers Testing New
American，at Los Angeles，Cal
Tank Ready to go Into Action：
British ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．Hamilton Onf
Tebbs：Rev．G．W．，Hamilton Ont．．．．． 2020
Thornapple．
Thre Mays of Ours ．．．．．．．．．．．．．．．．．．．．．．．．．．．． 19
cussing the Hard Times．
Torn Hat：The
Touring Car Pulling a Two－furrow
Plow：A Five－passenger．．．． Tractor：A Homemade（Figs．1，2）．．．．． 135 1ractors：The，at the Third Eastern
Canada Demonstration．．．1518， 151 Tree：A Protected．．．．．．．．．．．．．．．．．．．．． 1697 Trench Helmet（Figs．1，2）．．．．．．．．．．．．．．．．．．．． 1781 Trench Sweater．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 2023
Trench Sweaters（Figs．1，2）…．．．．．．．．．．．． 1784
Two Beauties
Two Beauties．
Two Factors in the Fight ………．．．．．．．．．．．． 2041
Ulva 2nd
nited Stat
Vegetable Plot：A Peel County Prize． 1733
eterinarians，Banqueting in Mr．
Gooderham＇s Dairy Stables．．．．．．．．．．． 131
Wagner：Fraw Cosima
Waiting to be Taken From the
Pasture be．．．．．．．．．．．．．．．．．．．．．．
Water Hemlock ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1125
Weather－wise … ．．．．．．．．．．．．．．．．．．．．．． 1931
＂What＇s the Probs．？＂－＂Line Busy＂． 1931
When the Frost is on the Pumpkin ． 1693
White－faced Beef Makers：A Pair 140
Whitegate Commander...................$- ~ 1089 ~$
White Lilies
－－．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1169
Whyte：Mr．R．B．，Ottawa
Wilson：Mr．
Windsor Horticultural
Flower Show：Booth at．
Winning Fair Team－At
Winning Foal at Toronto and Lon

Woman Soldier：A Russian Ago：A 1698 Wool：How it Grows．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1314

Workers and
Ranches B B C C Writer and Some of Her of the．．．．．．．．．． 1287

Yeast Cells Highly Magnified 1628 York Co．，Ont．：A Beautiful Stretch Young Bulls at Penrith：A Group of．．．．．．．．．．．．．．．．．．．．．．．．．006

## LIVE STOCK

Aberdeen－Angus Families：The Origin
Alberta Wool Comes East．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1620
Baby Beef Should be Prime
Bacon Hog：Cheap Housing for the．．． 1730
Bacon Hog：The Chief Points of the 1147
Bacon Hog：The Chief Points of the． 1347
Bacon Hog Situation．The
Bacon Hog Situation：The．．．．．．．．．．．．．．．．． 1475
Bacon Hog Trade：Sta
Bacon Hog Trade：Statement re
Bloating， 1433
Blowb in Cattle．．．．．．．．．．．．．．．．．．．．．．．．．．． 1087
Breeding Crate for Swine：A
Calves：What Are Your，Doing？．．．．．．．． 1196
Canadian Store Cattle Considered in
England．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1656
Cattle：Market Classes and Grades
of．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1809
Cattle Situation in France．．．．．．．．．．．．．． 1342
Championship：All Out for．．．．．．．．．．．．．．．．．．． 1158
Crippled Pigs：Don＇t Have，This
Crippled Pigs：Don＇t Have，This
Winter ．．．i．t．．．．．．．．．．．．．．．．．．．．． 1879
Crossing Different Breeds of Sheep 1731
Dates of Live Stock Meetings
Directors of the Canadian Sheep and
Swine Breeders＇Association．．．．．．．．．．．．
Dual－purpose Shorthorns：The Origin
of
2042
of
Duthie－bred
$\$ 13,797$$\quad$ Shorthorn $\quad 1088$
English Live－stock News and Notes 1252
Extra Sow：Maintaining That，and
Rearing the Litter．．．．．．．．．．．．．．．．．．．．．． 1810
Fall Care of Live Stock：The＿．．．．．．．．．．． 1585
Fall Sales of Live Stock Begin in the
U．S．A．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1656
Farm Herd Competition：Why Not
Finishing Live Stock While Young： 1252

Flesh－losing Periods：Two ．．．．．．．．．．．．．．．．．．．． 1692
Flock：A Good Time to Start a ．．．．．．．．．．．．． 1344
Flock：Extra Fall Feeding for the．．．．．．． 1344
Flock：Prevent Loss in．．．．．．．．．．．．．．．．．．．．．．．．． 1223
Flock for Every Farm：A．．．．．．．．．．．．．．．．． 1158
Flushing Breeding Ewes：Theory of． 1159
Goat：The Milch ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1619
Government Assistance re Market
Cattle Explained．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1811
Grub in the Head：Prevent．．．．．．．．．．．．．．．．．．．．．．．．．．． 1196
Hairless Pigs：The Cause of，and
Goitre in Lambs and Calves．．．．．．．．．．． 184
Herds and Studs of Great Britain：A
Visit to
Hereford Bulls in Canada：Hi．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．
priced．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1433
Hereford Bulls That Have Man
Good：Two．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1158
Hog：The Economical Hogs：Glean the fields With 1154
Hogs：Pasture the，This Fall．．．．．．．．．．．．．．．．．． 122
Hogs：Should the，Wallow？．．．．．．．．．．．．．．．．．．．． 1346
Hogs Getting Scarcer．．．．．．．．．．．．．．．．．．．．．．．． 1346
Hog Cabin：A Comfortable，for Hot
Hog Cabin：A Comfortable，for Hot
and Cold Weather．．．．．．．．．．．．．．．．．．．．． 1396 Hog Cholera．

Judging Beef Cattle
Judging Sheep
.1342
Lambs：Feed Well for More．．．．．．．．．．．．．．．． 1475
Lambs：Finishing ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1774
Letter From Scotland：A．．．．．．．．．．．．．．．． 1846
Live Stock in Canada：Estimated 1196
Live－stock Shippers：Half－rate Privi－ 11.
Live－stock Shippers：Hall－rate Privi－
leges Continued to．．．．．．．．．．．．．．．．．．．． 158
Live－stock World：What Britain Has

Milking Shorthorns：World Records
Ontario＇s Graded Wool Sales．．．．．．．．．．．．． 12279
Packing House：Profits of a．．．．．．．．．．．．．．．．． 1252
Pastures：Alternate
Pasking House：Profits of a．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．
Photographic Records of the Live
Photographic Records of the Live
Stock：Keep．．．．．．．．．．．．．．．．．．．．．．．．．
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I





## THE FARMER'S ADVOCATE.



## FARM BULLETIN.

Advertising: Truth and Honesty in... 1398 Agricultural Subjects: English.......... 1196 | Are We on the Trail?............................$~$ |
| :--- | 1432



Calendar: Wanted a, That Will Work. 1130 tries in Live Stock at.......... Canada and Fertilizers...
Canadian Ayrshire Herd Book
Canarian National: Heavy Horses
and Beef Cattle at the Canadian National Still the Greate..... 143 of all Fairs
Canadian Seed Growers' Association: 1399
Annual Meeting of the
Care and Feeding Count.
Cause and Effect
entral Canad 1140
and Attendancexhibition: Weather Chichester Southdown Sale: The ....... 1431 O-Opeets........... 1567 Crop Rulletin: A Special....................... 11380 Crop Report: Dominion Cumberland Co., N. S.: Conditions (a) in......................................... 1653 Czar Back to the Land: The................ 1699

Dairy Convention: Date of Annual,
Set.......................

Dairy Feed: When You Buy.............. 1107
Dairyy Herd Competition............... 1537
Day: Prof. G. E., Goes to the Short
horn Association Day: Prof. G. E., Goes to the Short-
horn Association...............................
Denmark: Co-operation, Cows and Pigs Have Made........................ 1182 East Middlesex Notes..... 1200, 1591, 1905 Eastern Exhibition, Sherbrooke: The Edmonton: A Successful Exhibition 1404 Eggs: The Price of, Remains Firm.........................006 England's Agriculture and Live-stock England's Scheme for More Small ${ }^{153}$ Holdings.
English Far English Farming News................................ 1462 English Live Stock Notes
$\qquad$ Enistm
Escana
Experim Fall Fairs: Prepare for Farmer and His Paf.......... Farming: The Busines: Farm-labor Problem: The Farm Management Survey: The.................... 1378 Field Root Seed: Home-grown, Gives
Best Results. Best Results. Figures and Farming
Fires: Crash Makes... Fires: Irash Makes
Fixed Prices Please British Farme............ 1609 Forest Fires From Trifing Causes:
Terrrible

eGateway and the Goal: The ............. 1535 Good Farmer Made Good, the Poor
Farmer failed
Good Roads: Good Roads: The Effect of, on Pul-
ling Power of Horses Grain: Power of Horses................... 179 Grain: Markets at Country Points 17 Grain Trade: Control of, by Board
of grain Supervisors Grasses: The Crab and and Finger Ground Limestone: The Agricultural Guelue of ..................................... 186
 Guelph Winter Fair: Heavy Entries
for the......................................
Halton County: Conditions Favorable
in Berd Books Ready: New........................ 113
Herefords: Startling Prices for .............1130 Hired Man's Story: The ...................... 11979 Hogs: Feeding Hogs: Feeding, at Present Feed
Prices Hog Prices: Stability in............................ 1645
Holstein Holstein Sale at Oak Park Stock 190 Farm.
Horse: The Brain-power of the Horse: The Brain-power of the ......... 1988
Horse and Cattle Notes From Eng. land Household Conveniences for the
Rural Home.................... International: Canadian Judges International Live Stock Exposition: 1815 The 1917................................. 1945 Just as You See it................................ 1130
Kerosene Lamp Tells the Story ......... 1815 Leeds: A Few Notes From............ 1815 Lockie Wilson: A Gold-headed Cane 1179 Manure: Handling, at Macdonald
College................................ 1109
Meat Ration at the Front........

Milk an Economical and Nutritious
Food............................................. 1369 Milk Does Not Carry Infantile Par-
alsysis. Millers: Maximum is Named for 1761 Profit of the.................................. 1644 Muskoka and Parry Sound....................... 1442 Mustard: Pull Your............................... 1109 Napanee Cheese Board: At the, on No Bran and Shorts to be Exported.... 2013 Nova Scotia Provincial Exhibition:

Oestreicher's Shorthorn Sale............... 1699 Old Meadows-Their Summer Culti-
vation ....................................... 132 Old Problemsanda New Perspective. 1868 Ontario Agricultural College Opens Sept. 21st....................................... 1502
Ort: D ., Passes....... Ottawa Winter Fair: Dates Set for....... 1235 Over-development
Oxford and Norfolk: So re Obsel va-
tions
tions in..
Packing Business: Regulating the ..... 1815 Peace River Distric:: Farming Op portunities in the
Percherons: Japan Buys.
Plow: Take to the
Plow: Take to the................................ 176
Potatoes Yield Ten to One................... 1892
Growing.,..............................
Poultry Diseases Responsible for Big Poultry Feed......
Production Cost..................................... 1374
Provincial Plowing Match: The
Public Patronize the
Pulpwood Industry: Progress of the.......... 1398
Quebec: A Few Farm Notes From.... 1699
Quebec: Agriculture: More Notes Re-
Quet
lating to lating to ....

Record Prices for British Pedigree
Regina: An Educative Exhibition at 1257 Roots: Select Some, for Seed ............ 1760 Roots in Storage: The Care of $\quad$ 1994(a)
Root and Fodder Crops............... 1815 Root and Fodder Crops ................ 1815
Root Seed Growing in Canada: Results With.........

Sale of the O. A. J.: The Best in the History of.......................... 1738 Sale of Breeding Stock Means Loss. 179
Saskatoon Exhibition: Live Stock the Saskatoon Exhibition: Live Stock the
Feature of................................
School: Regularity at Set Abroad: The .................................. 1437 Scottish Letter: Our ................................ 10959 Seed: Select, Early...............................1442 Seed Grain and Potatoes: Distribu-
tion of... "Sheep", Order: An Important............. 1625 Sheep Prices in England: Sky-high 169 Shor, horn Sales: Three Memorable 1815 Shorthorns: England's Non-Pedigree. 203 Snell: The L.ate J.
Sow: Keep an Extra
Students' Judging Con............ 1283
Subscription Fakir Again: The ........... 1884 uggestions for Saving ........................ 1417
Team-work Fertility................1994(b) land.............................................................
Thrift.........
Till the Soil and Feed the Soldier ..... 1419
Timber Crops: Two-thirds of Canada

Underdrainage at the Central Ex-
Union Government: Ttawa................ 1834 Union Government: The .................... 1625
United Far ıers' Annual Meeting..... 1815
Vegetable Canners: Hints for............ 1180
Wanted-More Munitions. From the Waste Paper the Men.......................... 1697 Watt-Gardhouse Shorthorn Sale Made........ 1499 Western Fair's Half-century Success................. 1096 Wheat:............................................ 147 Whear: Prospects for, in Various
Parts of the World........................ 125 Wheat Panic: No Mor
Wheat Prices............................... 156 Wheat Receipts Light at Terminal Who Gets the "Lion's Share" Win the War Crops Winter Crops in Ontario
Winter Fair: The Fourth War-year
a Big Success........................... 194
the.............
Wool Growers: Cheques Issued to.............................. 1681 Wool Sales at Government WareWool Sales in the West.................................. 1442
York County: Crop Conditions in...... 1311

## HOME MAGAZINE.

Bee Stings: How to Avoid.................. 1174 Breadstuffs: The Coarser............................ 16284

Cheese: Making
Drying Fruits and Vegetables............ 1320
Fruit: Storing ...................................... 1289
House Plants.
House Plants in Winter
Jelly Making ......................................... 1263
Kerensky
.......... 1103
"Romany Life".....................1099, 1133
Storing for Winter.............................. 156
Storm: What to do in a ............................. 1290
Table Etiquette............................... 1137
Vegetables alue of Fruits and 1102
Through the Eyes of a Canadian Wo- 1102
man in England.......................
Trench Stoves: Homemade. 1702, 1854

## Allies Face Serious Meat Shortage

There is a world shortage of meat. In
Europe there are $115,000,000$ fewer stock animals than before the war. The situation is so critical that meat is now one of the vital factors in
deciding the outcome of the war. ting forces of the
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The millions of soldiers and sailors in the Allied

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## Save the Young Sows







Dominion of Canada Department of Agriculture live stock brance TTAWA


## How is Your

 Stock Doing This Winter?Are your horses, cattle and hoos out of condition, scraggy, hide bound, eating their heads of and geting little good from their feed? You know from,
past oxperience when vaur stock has been around the stables for a while they fall off, showing they are missing something. What they miss is the herbs past experience yhen your stock has been around the stabies for a while they faliof, showing they are mising something.
and toots they formerty got while on pasture, and which are absolutely essential to animals digestion. These myth be replaced:
Other farmers have solved the problem succesfully and point the way for you. They mix INTERNATIONAL STOCK FOOD TONIC with the feed and the restits are astouinding. The animals picle up as if by magic. Pretty soon you can begin to cut down on the feed rations. Here's the reason You know you can't keep water in a sieve. So it is with your animas. If their digestive organs are not extracting and assimiating the nourishment
INTERNATONAL STOCK 'FOOD TONIC mixed with the feed supplies the necessary herbs, roots and bark to tone up the whole sysytem

##  International Stock Food Tonic

FOR YOUR HORSES
Subonq oale FOR YOUR COWS
FOR YOUR HOGS
Keep horses thrity and heal thy with nice glosy INTERNAMTIONAL STOCR FOOD TONIC tones INTER VATIONA STOCK FOOD TONIC



 and appearance of the animal.



## loyno READ : FHESE LETTERS




 Shedden, Ont. Jan. 18th




(Signed) Jonn S. Berurert, R. R. No. 3.

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 Petion, Oate, iR. R. . No. 1. May 2nad, 1917 Dâ Sisien yiu Iiternational stock Food tonic



Paisley R R No B Feb 274 1917
Dear Sirs:-
TIONAL ship me at once by freight twelve pails of INTERN
STOCK FOOD TONIC. You will note this the second twelve-pail order I have bought this season.
have used o lot of INTERNATIONAL STOCK FOO
HONIC as have used a lot of INTERNATIONAL STOCR FOOD
TrNIC, as you will see by your records. and find is use very
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Dear Sirs:-
I use at I use a lot of INTERNATIONAL STOCK FOOD TONIC
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 it to them. Yours vely truly (igied) pleank Sink Lek. Mount Forest. Ont., March 1st calves, and been using your Grofast Calk MEAL on two will send you a copy as we consider the of them taken the
calves calves we have ever rasied and consider them two the that the drop
of milk-simply GROFAST CALF. MEAL.
ours truly
UuRPhy.
Dear Sirs:- $\quad$ Kendal, Sask,, Nov, sth, 1917.
Your GROFAST CALF MEAL is great stuff to male calve Dear Sirs:-
Your GROFAST CALF MEAL is great stuff to make calves
grow, and I wish you would give ms your price on 200 pounds grow, and I wish you would pive me your price on 200 pound
Yours very truly,



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