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Make Your Labour Efficient
In war-time do not waste time and energy on unimportant and unprofitable work. Economize labour. possible, help in producing something needed now. Let us not waste labour. Canada needs it all. If possible help to feed the Allies. Make your backyard a productive garden. Cultivate it with a will. Make your labour count for as much as possible.

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## the Farmer's Advocate and Home Magazine <br> <br> 

 <br> <br> }LONDON, ONTARIO, MAY 11, 1916.

## EDITORIAL.

Selling the best does not tend fo improve the herd.

What have they done? Is the test for cows as well as for"men.

They have "gopher ${ }^{*}$.days" out West. Why not "ground-hog day" in Ontario?

It is nearly time to plant tested corn. It is never time to plant untested seed.

A late seeding does not ${ }^{-}$necessarily mean a late harvest, but it does mean speeding up the farm work.

You do not know how good or how bad your cow is, until you systematically weigh the milk and test her.

The split-log drag was used to good advantage on many roads this year. Many more needed it but did not get it.

Alfalfa, where it will grow well, makes good farms and good cattle. Sweet clover may do the same where alfalfa is a failure.

Buy "Made-in-Canada" goods seems to be a slogan for the Canadian people and not for those who handle the fuse contracts

The man who does not watch his mare and so loses his colt generally resolves to be on hand next time. Rather an expensive lesson.

We saw many cattle on pasture as early as April 25 this year. There was no grass then, and there will be little on the fields on which these cattle graze at any time this summer

Some say: "a wet seeding a dry harvest." We hope it is some drier than that of 1915 , but no one will complain much if he has as much to harvest as he had last year, even though no men are available.

At time of writing, the Shell Committee does not seem to have been very complimentary to Canadian manufacturers. Canadians have more confidence in the ability of their own firms to turn out good goods at fair prices than had the said Committee.

A Canadian farmer recently said to us: "Is it not strange that while Canadian farmers were recently cautioned against buying and selling outside their own country, the Government lets its contracts in an other country?" Politicians should remember that farmers are alive and awake.

The Kaiser wanted a birthday present for the Crown Prince. He promised him Verdun, but the walking wasn't good between his headquarters in the woods and the French fortress, so the Crown Prince had to do without his present and many of his people will have to do without their nearest and dearest relatives for all time

## Dragged Roads Are Better Roads.

In the course of an extended drive through a county composed largely of clay, and where the roads are for the most part clay roads, we recently encountered some very bad holes and some exceedingly rough driving, due to the roads having been cut up by vehicular traffic and not smoothed down as they began to dry out. It was a relief however to come upon a strip of three or four miles of road which had been dragged by either a split-log drag or smoothed off with a scraper, right in the midst of these, generally described, bad roads. For the most part where the road was not dragged we vere only able to drive our horses at a walk and it was difficult for them to travel at all. The buggy was in and out of deep suts, making it hard on both rig and beast as well as unpleasant for those called upon to travel. In time past "The Farmer's Advocate" has spoken strongly in favor of a universal use of the split-log drag on clay roads in the spring. We never saw a better demonstration than the one mentioned, which was in Haldimand county, of what can be done to a road by dragging at the proper time. When we struck the piece of dragged road, we were able to trot along at a fair rate of speed on a comparatively smooth road, easy on horse, rig and man. The dragged road will be the best road all summer, and there is no estimating the value of the drag when it comes to preparing roads for the traffic which must be carried on over their surface. For speed in smoothing up, rounding off and filling in, the drag is a wonder, aids in drying out the surface and hardening it making a passable road out of a quagmire. No doubt there are many roads in the country which would be the better of more dragging this spring and which, after heavy rains during the summer, would be more rapidly drfed, improved and repaired by the use of the drag. We wish that every pathmaster and every road worker could see a demonstration of the use of the drag at the right time, and we venture to say that the number of drags in use would be multiplied many times. Try a home-made one on your own wet lane sometime and see how it works out, then drag it from the lane to the road and show the neighbors what can be done.

## Do You Grow These Varieties?

Some interesting facts are brought out by the repor of the results of Standing Field Crop Competitions in Ontario in 1915. We wonder if the relative number of tests made in each crop bears any relation to the relative popularity or general adoption of these crops. There were 152 competitions in oats, 9 in spring wheat, 15 in fall wheat, 16 in barley, 4 in peas, 45 in corn, nearly 50 in potatoes, 10 in turnips, 7 in mangels and 1 in beans.

Undoubtedly oats are the big crop in Ontario, and it is interesting to note the winning varieties. In 1913 there was only one entry of O. A. C., No. 72 oats in these competitions in Ontario and it took first place. In 1914 this variety received twenty first prizes and in 1915 it secured 48 first prizes. In 1915 O. A. C 72 oats were entered in 99 of the 152 competitions and so took first place in nearly 50 per cent. of the contests where entered. It is interesting to note that the Banner variety secured 45 first prizes and stood high up in most competitions where entered. These two varieties are undoubtedly leaders in Ontario. Abundance, Siberian and Sensation stood well up in the lists in some places. In the sixteen barley competitions, first place in every instance went to O. A. C. No. 21. In most competitions it was the only variety entered. A few entries of Mandscheuri got in the money but the growers of the best barley grew No. 21
A small acreage of spring wheat is grown in Ontario but Marquis, a variety originated at the C. E. F.,

Ottawa, led in each of six out of the nine competitions. White Fife and Red Fife were the other common winners, but in York county every entry was Wild Goose, a macaroni variety which does well on heavy, strong land.
: Dawson's Golden Chaff led in ten of the fifteen competitions in fall wheat. This heavy yielder seem hard to beat.

Peas, once a staple crop in Ontario, but now not relied upon, were in competition in only four societies, two in Renfrew, one in Bruce and one in Huron. This is indicative of the trend. The crop does not prove valuable in the southern counties and is now grown only in the north.

The number of corn competitions indicates the grow ing importance of this crop in Ontario. Forty-five competitions as compared with the numbers in other crops puts corn next to oats. In different districts, different varieties led, but on the whole the standbys such as Compton's Early, Salzer's North Dakota, and Longfellow, and White Cap, Leaming, Bailey, Wisconsin and Golden Glow did well.
The outstanding feature of the potato contest report is the number of varieties, altogether too many. Potato growers would do well to settle down to a few good early and late varieties and put an end to the everlasting hustle for new sorts.

One is surprised at there being more turnip competitions than mangel trials. They number eleven to seven and yet mangels are growing in favor rapidly.

These competitions carried on in all parts of the Province are valuable and the results should be a lesson to those looking for new varieties especially in oats, barley, spring and fall wheat. It is a pity these reports could not be in the hands of farmers a few weeks before seeding so that in selecting varieties they could benefit from the experience of others. Too many reporta turned out are too long in the making and reach the public at an unseasonable time.

## Money Is Not Everything.

Money is not everything. The foregoing sentence is one that should receive the consideration of every farmer, as well as of every citizen. We recently spent an interesting hour with a young bookkeeper, who, tiring of office work, has purchased a few good dual-purpose Shorthorri cows and on five acres in a town in Haldimand county: Ontario, is enjoying farming on a small scale with good, pure-bred cows and choice pure-bred chickens. The feature which is drawing him and his wife to the worl is not altogether the money that is in it, but, as he-puts it, "money is not everything". They like the worle It is interesting to them, they enjoy it and every day they are learning something new and something more interesting about the cows and the hens. Would that thousands of others, among them many now on the farm and others who have left farms and are living in towns and cities, could see farming as these people see it. The work of milking cows is not drudgery to these people. Feeding them is a pleasure. The average farmer - the average man in any walk of life, is too ready to measure the occupation by the money there is in it. The twentieth-century human being places the dollar sign on everything, and it is a pleasing relief to find a few people who do things not altogether for the money there is in it but for the pleasure, the information, the education, and the real life which their occupation holds in store for them. There should be satisfaction for the farmer in the growing and development of crops, and in the breeding and feeding of better live stock, there should be some satisfaction other than the money returns which are not everything in life. As a general thing we believe farmers do not make the amount of money to which they are entitled in com parison with other business, but there should be no

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drudgery in work which is interesting, and farm work will be more interesting and will generally prove more remunerative when the farmer makes a study of his
business and thoroughly enjoys the development of better strains of crops and stock. Experimentation on a small scale, the growing of pure seed, the breeding of a selected strain of pure-bred stock, studying the cream-these things make farming worth while.

The Transformation of a Township. There is a township in a certain county in Ontario
which a few years ago was known as "the God-forsaken which a few years ago was known as "the God-forsaken
township of -". At the present time the said township is one of the most fertile and most productive in the
county, due to what causes? Alfalfa, one of the best crops for soil and stock has made the change. We would not have our on all soils, because it can not. successtury soim soil seem to have a great deal to do with the success or failure of this plant, and on far, heavy, poorly-
drained, cold-tottomed soil it will not thrive. On some rolling land it soes not to wetl, white on other
rolling land, such as some of that in the Grand River Valley, it thrives and produces abundantly. It has
been so successful in certain parts of the Valley, in the township referred to that it has built up the land,
built up the stock and improved the farnis until now built up the stock and impruved the farms until now
this land will grow almost any kind of a crop and grow it well. This only serves to illustrate the fact properly handled. Red clover has transformed many a farm from dover, which to all appearances will grow on any soil, may yet be found very useful as a soil builder, particularly on land which will not grow red cover or
alfalfa successfully. It will alike improve heavy clay and light sand. Undoubtedly there is a suitable crop for all soil and once we find out what that crop is much
more forsaken land may be made to flow with nilik and boney.

To Dairy Fame or to Canned Beef? Some years ago, at the time Shorthorn cattle were a drug on the market, a certain breeder sold a calf to an Indian for a small price. No pedigree was furnished Indian for a small price. later the cow drifted into the hands of a progressive young man who undertook to weigh her milk and keep some record of what she might do. We have not the figures for a year's production from this cow, but she was known to be a heavy miker and she produced some choice heifer stock, which, of course, was pure-bred but could not be registered This cow gave as high as 66 pounds a day when at her best and was one of the most valuable animals in the herd. Weighing the milk demonstrated to her owner the real value of the cow. The scales proved what had been surmised, that she was a good cow. Scales will likewise show the owner which are the unprofitable cows in his stable. They should be used in every dairy cows in his stable. breed or class, to take the guesswork out of the milk business. No man can afford to do so much guessing about his cows and their production that it keeps him "guessing" to make a living. Facts are the only sure foundation to work upon and the milk scales are the best means to get at the facts. producing milk for dairy purposes in Canada there would be many surprises. Some cows, thought very ordinary, would become famous and many others would become canned beef.

What Some Inspectors Say of Consolidation.
The last three issues of "The Farmer's Advocate. have contained articles dealing with the need of some change in our educational system in Ontario, and the advantages of consolidation in rural districts. It might please some of our readers who are taking an
interest in the subject to know what some of the interest in the subject to know what some of the
inspectors of rural schools in Manitoba think of consolidation as a means of improving the chances of the rural boy and girl to get a public and high school education on a level with the city boy and girl, or even better. Consolidation started in Manitoba in 1906 and has made rapid strides. So it would in Ontario if placed on the proper basis and pushed. How many people leave the farms so as to be the keep their children at home while giving them the
advantages of an education! How many more send their children away to school at considerable expense! It is necessary, for commercial and industrial progress have developed so fast that children are greatly handicapped unless they have the advantages of advanced and thorough education. If money now spent by fathers and mothers in rural Ontanio town and city schools could be turned toward consolidation of schools nearer home, it would go a long way toward meeting the extra expense of transportation to and consolidation of the country schools, and the boys and girls
would get the right kind of public and high school education while living at home on the farm. Read what these inspectors say in their annual reports to the Minister of Education in Manitoba
"These schools (nine consolidated) continue to do excellent work, and the foresight of the Department in encouraging consolidation has been amply vindicated. The superior efficiency of the graded school over the ungraded is everywhere acknowne as the ratepayers become convinced of the advantages of this

## method." J. Boyd Morrison


appear to he a single complaint to make. The at-
tendance from the country has been remarkable,
and the rural ratepayers are perfectly satisfied with
the change."
"These schools give better educational facilities,
and, although, in one or two cases, the cost may be slightly higher than of the one-roomed rural schools money expended. In these schools there is the possi bility of arranging the pupils in classes large enough so that the children in recitation meet with other
children to 'measure against' in the friendly rivalry
and inspiration that come from a properly conducted class work. Gborge Huntre,
Inspector Division No. 5.
'I am of the opinion that the consolidated school plan is growing in favor. In almost every case where an opponent of this plan has been persuaded to at. tend consolidation day session at the Trustees' Convention, he has returned home a strong supporter of the idea."
D. J. Wright,
'The principle of consolidation is gaining wide favor each year." Inspector Division No. 9.
'The policy of consolidation is steadily growing

## Inspector Division No. 10.

We may say that in 1915 there were 58 consolidated schools in operation in Manitoba, and in his report R. Fletcher, Deputy Minister of Education in that R. Fince says: "Wherever the plan has been put into intelligent operation the results have been good."

## Register Promptly.

In travelling over the country; it is a surprise to find such a large number of animals, pure-bred as far as blood lines are concerned, but without pedigree. Ib most cases this is due to carelessness on the part of breeder or owner in not having the eligible stock $r e$ corded early in life, when sire and dam are known and no difficulty is met in getting the papers put through. In some cases it occurs that purchasers have trouble in retting pedigrees of stock bought which has been to getting pedigrees presented to them as pure-bred and which is, in moom cases, as represented, but the owner has not had them recorded, and, through carelessness, neglects atter be sale has been made to get the papers. We would adve all breeders of pure-bred stock to be prompt in register ing their animals whether kept in the herd or sold Thousands of dollars have been lost through this care lessness, because neglecting to register an animal throm all the future progeny out of the books. Register promptly.

Studies in Political Economy-X. Last week it was shown how, and to what extent, our system of taxation through custom's duties dire
criminated against Canadian agriculture. I pro pose now to trace
substituting
a direct the $\begin{gathered}\text { consequences } \\ \text { tax }\end{gathered}$ for the indirect tariff tax from two points of view. First, how would such a change affect agriculture: and
secondly, what revenue would it provide? Both questions will be answered by the same investigation, which we shall apply for simplicity's sake, to the Province of Ontario.
rovince of Ontario.
The Census of 1911 estimates the value of Ontario farm lands as $\$ 612,000,000$, and that of Ontario farm buildings as $\$ 314,000,000$. Municipal Bulletin .No. ${ }^{2}$, gives the 1914 assessment in Ontario townships as
000,000 , compared with an assessment of $\$ 669,000,000$ 000,000 , compared with an assessment of sigh, increase in the value of farm property, probably due in part to the general rise in prices. Therefore, we may assume that a value of 612 plus 314 , or $\$ 926,000,000$, in 1911 that a value of 612 plus 314 , or $\$ 3$ (one billion dollars) during the last few years.
The essential accuracy of this estimate is confirmed by the following conditions. In 1912 the Dominio
Grange sent out a cireular letter of inquiry to Ontario Grange sent out a cireular letter of inquar the assessed rural municipalities asking them hew Rear
values came to were re ceived from 128 townships, showing an average assural ment of 73 per cent. of actual values. With a rural assessment of $\$ 687,000,000$ in 1914, the actual value of the property assessed was therefore approximated. one billion dollars, as already otherwise determined "1lll not be appreciably different now from what it was in not be appreciably different now rom whit buildingo
1911, viz., two-thirds land and one-third We may therefore conclude that the present valu thii
Ontario farm lands is about $\$ 660,000,000$. But is not the "land value" of Ontario farm lands. Improve ed farme lad improvements are identical in their nature with building and should logically be so assessed. While no figures are available, I doubt if the value of unimproved the is more than half that of improved. Let "us be on value" safe side however, and assume that
of Ontario farm lands is $\$ 400,000,000$.
, Ontario Tows, villages and cities in 1914 was $\$ 1,202,000,000$, somewhat less than half of which is that fer "land" The total assessment is also much less than the selling value. In 1912 an minvestigation into the salese of that pieces of property in Toronto revealed the fact cent. above the assessed value. Assuming that this pro portion holds good throughout Ontario urban
cipalities, the value of taxable urban property was
$81,923,000,000$ in $1914,-$ let us say a round two billion $81,923,000,000$ in $1914,-$ - $e t$ us say a round two billion
dollars, nearly or quite half of which is due to "land values.'
Now it is different with urban lands from what it is with farm lands, in respect to clearing, fencing and draining. City lands are valuable for building sites and for
practically no other purposes. Therefore the same practically no other purposes. Therefore the same
deduction does not have to be made in the case of urban lands as must be made in the case of farm lands. We may, therefore, put the "land values" of Ontario
urban municipalities as a round billion dollars $(1,000$ millions).
But we must add to these values, already partly caxed for municipal purposes, the value of various gas, power, telephone and telegraph companies); the value of mineral rights and lands, which are enormous in Ontario, and, further, the value of timber limits, water privileges, quarries, etc
No reliable estimates of such "land values" are visonal estimates:
The capitalization of Canadian steam railways in 1914 was approximately $\$ 1,500,000,000$, about one-
third the capitalization of agriculture in 1911 . Dividing this railway capitalization on the basis of mileage, Ontario claims $\$ 570,000,000$ of it. What proportion of this is the value of the franchise? We have allowed
that the "land value" of Ontario farm lands is over one-quarter of the total value of assessed farm property Railway franchises are surely as valuable as agricultural to say nothing of the various subsidies and grants which
Casadian railways have had. We shall therefore allow $\$ 150,000,000$ dollars "land value" to Ontario steam railways.
The capitalization of electric railways is about one-tenth that of Canadian steam railways. On this
basis we must allow $\$ 15,000,000$ "land value" to Ontbasis we must allows.
ario electric railways.
I have not been able to secure information concerning light, gas, power, telegraph and telephone
companies, but feel safe in ouch public franchises (including railways) in Ontario et $\$ 250,000,000$.
The value of mineral rights and lands is very difficult to estimate. The Provincial Treasurer, in his last Budget Speech, included in his statement of assets
come $\$ 75,000,000$ for mining some $\$ 75,000,000$ for mining lands, etc. What pro-
portion of the discovered mineral resources are now in private hands I have been unable to ascertain, but there is evidently, a very large percentage. Judging
from the estimates recently made ir the press that 90 from the estimates recently made in the press that 90
per cent. of the public resources of British Columbia per cent. of the public resources of British Columbia the value and present ownership of part of Ontario's rich mineral deposits, it would be conservative to place
the value of Ontario mineral lands at $\$ 200,000,000$. The Provincial Treasurer estimates the timber resources of the Province at about $\$$ s.and, sthat a large proportion of this is still in possession of the Crown, and therefore not now taxable. We should be sate, however, in assuming a taxable
timber value of at least $\$ 100,000,000$. Add to this a further $\$ 50,000,000$ for quarries, water privileges,
etc., and the situation stands thus:

Ontario "Land Values.
Farm Lands..
$\$ 400,000,000$
City and town lands
Public Franchises $1,000,000,000$
$250,000,000$
Mineral rights and lands $250,000,000$
$200,000,000$ Timber limits, water privileges

150,000,000
Total "Land Value
\$2,000,000,000
tax amounts it whown in Study IX. that the total tariff one-quarter of which (about $\$ 90$ ) goes into the Federal Treasury. In 1911 there were, in Ontario, 226,000 arm occupiers. There cannot be appreciably more at the present. Assuming the same number the farmers
of Ontario are contributing $\$ 20,000,000$ to the Federal oreasury through custom's sduties. and about $\$ 60,000,000$ to the tariff beneficiaries. Out of a total customs
revenue of $\$ 92000$ Oco revenue of $\$ 92,000,000$ the whole of Ontario is certainly
contributing less than $\$ 40,000,000$, However, let us contributing less than $\$ 40,000,000$. However, let us
assume that this is Ontario's share, and let us find out assume that this is Ontario's share, and let us find out
how much of it the Ontario farmers would pay if a how much of it the Ontario farmers would pay if a
direct tax on "land values" were substituted for the
indirect values", tariff tax. The proportion of is allotted to farm lands is one fifth
(ea (see Table). Therefore under this system Ontario
farmers would pay one-fifth of $\$ 40,000,000$, or $\$ 8,000,000$. The situation therefore stands thus:
(1). Under the direct tax on "land values" Ontario
farmers pay $\$ 8,000,000$, all of which goes into the Federal treasury, whereas
(2). Under the indirect tariff tax Ontario farmers
pay $\$ 80,000,000, \$ 60,000,000$ of which goes into the pay $880,000,000$, $\$ 60,000,000$
pockets of tariff beneficiaries.
The first question is therefore answered, now for
the second question: Will a direct tax on "Land Values", supply sufficient revenue? So far as the larmers are concerned Canada could raise $\$ 900,000,000$ a year, instead of $\$ 90,000,000$, by the direct tax without
bitting them any harder than they are hit now by the indirect tax. any harder than they are nit now by ario "land values," already eatimated, figure out to approximately $\$ 800$ per capita. Assuming this figure
tiroeghout the Dominion we have total "land values"
of $\mathbf{\$ 6 , 0 0 0 , 0 0 0 , 0 0 0 , ~ ( s i x ~ b i l l i o n ~ d o l l a r s ) , ~ w h i c h , ~ a t ~}$
per cent. (one per cent. for municipal and 3 per cent. per cent. (one per cent. for municipal and 3 per cent.
for provincial and federal) will yield a revenue of $\$ 240$,
000 000,000 . This answers the second question.
Brant C. C., Ont.

## Nature's Diary.

The Trillium season is now at its height, and the woods of Eastern Canada are now decked with these
beautiful blossoms which convert the forest floor into a star-spangled carpet.
three petals, hence the name leaves, three sepals and "triplum," meaning three. All the species are perennial, the underground portion being a fleshy


Wood Thrush.
The Large White Trillium-(Trillium grandiflorum) is a stately plant which ranges from Western' Quebec when young bayd the petals which are snowy white and when in this condition lead many gard such plants as belonging to a different species. A good deal of variation is exhibited by this species, as some plants have petals with a green stripe down
the centre, and I have found some plants in which the centre, and I have found some plants in which the petals were entifely green. Still more remark-
able was a plant of this species which able was a plant of this species which 1 found, in
which onty weref the petals green but the stamens which not only were the petals green but the stamens
were represented by little green leaves, and inside the ovary, instead of ovules, were tiny leaves_folded


## Large White Trillium

A very pretty species which is common in the Maritime Provinces and Eastern Quebec, and is recordded (Trillium undulatum). In this species the petals (Trillium undulatum. In thater than in T. grandiflorum, pointed and wavy and white with crimson stripes towards the base. The Nodding Trillium (Trillium cernuum) is this species the flower-stalk is recurved so as to bring the small, white flower under the leaves. petals are nearly always of a dark-brown-purple petals are
color, though occasionally they are white, in which case the species may be known by its broadly rhombic leaves and reddish fruit. The flowers of the other Trilliums have no scent, but those of this species have a
decidedly disagreeable odor, and while the ottiter species
are pollinated by bees and butterflies, this species in
visisted by beetles and flies, attracted undoubtedly
by the rather rank smell by the rather rank smell.
The range of the Purple Trillium is from Nove Scotia to the Western shores of Lake Superior. Thie Whecies comes into bloom a little earlier than the Large, One of the
birds is the Wood Thrush. Its song is not sent forth with the strength of the bold and visorous lay of the Robin, or the loud and intermittent carol of the Brown Thrush. Its tones are tender, solemn and serene. They seem to harmonize with the soundre water, or the falling of rain drops in the summer woode. As with most birds there is a good deal of differencer in the excellence of individual performers. At evening, the bird usually mounts to the higher brancher of the taller trees, often upon the edge of the woode,
where nothing intervenes to confine his music. There sitting erect, he emits his wonderful notes in the moof eisurely fashion, and apparently with little effort "Ah-ah-olee" he sings and rests, "Ah-ah-olee" and another pause, and thus he unhurriedly utters the beautiful phrases of his intermittent song, the notes being powerful, rich, and metallic, with the vibratory
tones of a bell. The song rises and falls, swells and dies away, until the darkness of night having fallen, the musician ceases. The call-note of this species is a sharp "Quit-quit," and sometimes a softer cluck. middle of May Thrush arrives in Ontario about the middle of May, and, like some of the other Thrushes, for some few days, Then for a few days it its song sort of a ghost song -a very faint rendition of its full song, and finally it bursts into full song
Thee nest of this species is usually placed in a smal tree from six to ten feet from the ground. In the sork of an upright hme or where the main stem of and eides Dead leare and twigs form the hottom and sides of the nest with fine rootlets. The eggs are usually four in number and are greenish-blue in color, just a shade lighter than those of the Robin.
The main food of the Wood Thrush consists of insects, and when feeding, this species hops about oia
the ground. It also eats many linds of The Wood Thrush leaves Ontario in September. and winters in Mexico and Central America.

## THE HORSE.

## Lameness 'in Horses-XXI. <br> Ouittor.

A condition known as "Quittor" consists in a fistulous wound on the coronet, usually upon the quartery
or heels. A tube or pipe extends from this opening downwards to a greater or less distance, often extending to the sole, in other cases a variable distance down the wall to the seat of irritation. It is generally caused by treads, punctures, pricks, in shoeing, sup-
purating corns, or other injuries that cause a suppurating corns, or other injuries that cause a suppuration. within the foot or in the structures of the
coronet. Pus is formed at the seat of irritation. If an opening be not made through the horny boundary to allow its escape, it will increase in quantity and burrow upwards between the sensitive and insensitive substances until it reaches the coronet, through which it will break. If existing for any considerable time a false tissue of a fibrous nature surrounding the passage
forms, practically forming a tube or pipe extending from the seat of irritation to the external opening One or more of these sinuses form. In most casen the sinus, ie' practically straight, but in others it is more or less curved.
Symploms.-The symptoms are readily recognized.
There will be more or There will be more or less lameness. In some casen
the lameness is very marked, the horse being unwilling to put the foot to the ground, while in others it ie slight. There is a swelling and hardening of a a portion of the coronet, in which one or more small orifices are seen, discharging either a thin, limpid secretion,
or a thick and sometimes somewhat curdled pus. or a thick and sometimes somewhat curdied pus. ronerally downwards beneath the coronary subance lateral cartilage and into the foot
A quittor differs fron a wound, or a recent absces in the coronet, by the condition of the parts which action, by the character of the surrounding unhealthy which is hard to the touch, and by the presenge of one or more sinues. of one or more sinuses.
e a suppurating eepend upen the cause. If it be a suppurating corn, puncture, prick bruise or
other cause that sets up an irritation followed by the formation of pus, between the sensitive and insensitive soles, a free opening must be made through
the sole to allow escape of pus. The seat of tenderthe sole to allow escape of pus. The seat of tender-
ness in the sole can usually be readily located tapping gently with a hammer, or pressing with pincers. When the seat of trouble is tapped or pinched the animal will evince pain. After the pua has been liberated treatment should be the same as recommended in a former article for punctures In addition to this, local treatment of the coronet
should be given. If the condition is of recent occurshould be given. If the condition is of recent occurand dress two or three times daily with an antiseptic as a 5 per cent. solution of carbolic acid or one of the coal-tar antiseptics, but if the condition has been
tinus once or twice daily for a few days with a stron antiseptic, as 8 grains of corrosive sublimate
ounces boiled or distilled water. The fluid will escap ounces sole, having first passed the whole length of the sinus, and tending to destroy any fibrous growt that may have formed.
On cases where no communication exists between The exit and the sole of the foot, it is necessary to locate the seat of irritation, and either make an open Ing through the, wall to allow escape of pus, or extend the passage down to the sole and make an there. This is an operation that presents culties in most cases. In the first place it is necessary to determine the direction and depth of the sinus This is done by carefully introducing a probe. Whe the operator has satisfied himself on. this point, he must decide whether he will make the ewor irex tion is near the lower border of the wall the sole is tuon illy selected. In many cases the long continuance of quittor is due to the imprisonment of a piece of of quittor is due tod cartiage, or other foreien body thd it will be necessary to remove this before aditio an be effected. In cases of tiris the probing opera will usually be disclosed during the proing operat ion, fhed eng body reveals the condition to the manip ator. This also locates the seat of trouble. . uch cases it is necessary to pare through wall o cole and remove the foreign booy. When it is decided to extend the sinus down to che sole, etaer and istiry or a red hot iron isinnin a passage to the sole, which down, cutting or buning aake a free opening. Most practitioners object to the use of the iron except in casestitioners where no other means will suffice. After the sinus has been continued to the inferior opening, It is good practice to inject into at a strong souttion of corrosive sublimate, say griection will be suffiwater. One, or at off a thin slough and leave a normal granulating gairface, requiring no further treatment beyond being kept clean by flushing out onee
en ordinary antiseptic solution.
to move all foreign bodies, destroy proud flesh or fifrous growths, keep clean and stimulate reparative proesses. When fistuluus openings are sear the great care nust be observed in treatment, as the articulation of the bone of the foot with the small pastern bone is uperfcially sealed and thinly covered by sort strucloughing into the joint

During treatment it rest, as exercise or work causes great suffering, and
renders recovery very difficult.

## Shying Horses

Horses often have what is called the vice of shying that is, of starting suddenly at the rustle of a lead Ir a piece of paper, or acthe approactiof any ivect
to which they are not accustmet. herited from their wild progenitors in the steppes erited rraires where the sudden rusting of a leaf might
Indicate the presence of a wolf, and where everyything Indicate the presence of a wolf, and where everything that was strange was, therefore, suspicious. It is idle as well as cruel to beat a horse for shying. That only increases his alarm, and may easily reduce That only increases his alarm, and may easty recuce
bim to the state of terror in which he loses his head entirely Horses in that state sem to lose not only their
eads but their perceptive senses, and a horse in heads, but their perceptive senses, and a a horse in
that condition may dash headlong lagainst a stone vall $_{\text {The }}$ habit of shying when once formed is difficult to che, bistent kindness of treatment as to over power the inherited instinct of imstant fight from possible danger in which the habit originates.
lead it up quietly to the object it has just shied at, ind let it see that it is nothing very material. Some torses will constantly shy at one place or spot in a that ought to be got out. $\begin{aligned} & \text { B.-in The Live Stock Journal. }\end{aligned}$

Attendant Not There-Colt Dead. We visited a stable a short trime ago and saw a
mare which had a fee doys previously lost a foal.
This mare was anprenty This mare was apparently all right at nine oc cloch
in the evening, but at five in the morring a dead foal yas found in her box stall. To all appoearances the pithout difficulty. It is more than likely that the
 bappened in this case serves to illustrate the importance orppened in this ase shrese the mare foals. A certain umount of the usefulness of the mare is lost while
oremnant. She cannot work for from a week to two weeks after foaling. When the foal dies, all this time a d direct loss, and then there is the heavier loss of
the life of the youngster, which, if bred right, woult yrow into a valuable animal. it would pay the at. tendant of the mare about to toal to make his bect in
the stable for a few nights rather than lose a foal.

How a British Army Horse is Fed. Readers may be interested to know just what an army horse on active service is ied hill entiowing
is a scale of ration euivalents recenty announced is a scale of ration ery
in a British army order:
Maize, 1lb.; oats, 1 lib.; barley, 1 lb .; bran, $11 / \mathrm{lb}$.; linseed, $1 / 2 \mathrm{lb}$.; oatmeal, $1 / 3 \mathrm{lb}$; malt, $3 / 8 \mathrm{lb}$.; chaff, $13 / \mathrm{lb}$. Other equivalents such a a inseed cake.
peas, beans, rocksalt, carrots, etc., may be issued in peas, beans, rocksalt, carrots, etc, hay mer says it is
lieu of oats, chaff, or bedding. The order lieu of oats, chaf, or bedang. in e order should be
not intended that troop horses in stables she
 for this purpose. Wherever possible, therelore bed bing,
other than straw, should be obtained by the troops


A Champion Suffolk.
themselves, free of cost. Bean straw should not be issued if any other bedding can be obtained, as, if -

According to a recent census made under the direc tion of the Quarter Master General of the United States Army, of the $24,000,000$ horses in that country, view to improvement in the supplies two bills have lately been introduced in Congress, one appropriating $\$ 200,000$ for the purchase, by the government, of pure
bred stallions which would be loaned to the owner of sound and suitable mares.


A Polo Pony Stallion

## LIVE STOCK.

Ranching Sheep on a Small Scale. The possibilities of shep raising in the southwesteri
part of Ontario are well exemplified dy the practice n vogue on the 200-acrep pasture farm of Henry Buchanan watered, making a very suitable grazing area for sheep. as stables on the farm, and the cattle pastured there summer are boarded during the winter months by the numbering eighty ewes, are retained the year round on the farm and are provided only with an improvised
shelter. They are fed hay only, hut this is given them on a clean place in the pasture field and they eat
with considerable relish. The remainder of their sustenance they procure trom their range over the field,
The flock is allowed the run of the entire 200 acres rouble is experienced at lambing time, for the that no offspring. The lambs start to come about May 10 when the weather is usually warm, and the flock has
had considerable green grass. Under this system about
one lamb per ewe is reared which Dr. Buchanan considers a fair record for a large flock. With a smill
number of breeding ewes he states it would be poosihle to average $11 / 2$ lambs or more per ewe.
While the feed allowance might be improved by few roots, or a little grain, the principle herein set fortb is correct. Breeding ewes, or sheep of any kind, require exercise and outdoor cable building for sheep enough to have a nice, comfortabe not and pampering. Witho exercise and plenty of fresh air the lambs are not strone and the dam frequently experiences difficulty in yeating Although Dr. Buchanan's methods of managing the flock may at first sight appear radical, the outcome in proof enough that the principle is right. Furthermon it reveals the possiblity of sheep raising on a more
extensive scale in Southwestern Ontario. If shepherds there would adopt the practice of allowing plenty of range, over which feeding the breeding ewes a little graii and roots, there would be some handsome profits de rived from sheep raising.

## English Live-stock Happenings.

## Editor "The Farmer's Advocate"

There is very little for the faithful recorder of things "live stock to report upon at the moment a few of the good ones of which will be held, but the majority of which have been cancelled. Stallion owners are feeling the want of assistance, for the boys have gone and flocked to the colors. The Shire stallion shows that have been held, have had as wiv. ners some Conqueror, twice London champion, which non won at the Bedfordshire Show. In the "eighties" to have found so valuable a stallion being sent to an ordinary country show, which is very llttle better than a parade. This speaks volumes for the good work done in improving the quality of the local mares which these stallions are practically asked to come and serve. Local shire Horse societies are giving large sums for horses to rave their districes, 500 . some casa the retaining herses have been let at higher figures notably Babingley Nulli Secundus, now owned by R. Mond and which the Melton Mowbray Society have taken for 1917 at $\$ 5,500$;a record letting fee for England. They paid $\$ 5,000$ for him this year-1916, and he will earn every dollar of it
The Suffolk Horse Society has decided upon an advertising campaign, and it will lo side of the water It's never too mend
There are great expectations in England that the pig industry will. boom after the war. The figure pand trade returns in U.S. A. are being watched closely, and if any sign is showing that there is a shortage
there, Enylish breeders will keep more of their young there, English breeders will keep more of
sows and sell fewer numbers for porkers.
Pedigree pig breeding is in a very flourishing Pedigree pig breening is in a vale of large, white
state in the Old Country. At a shat Yorkshires, on Thursday, April 13, held by yond
Thornton \& Co., on behalf of J. I. Major, at Dawson's Farm, Ramsey, Hants, 81 head sold averaged 515 6s. 7d. apiece, or $£ 1,241$ 12s. 6d., all told. One gilt,
15 months old full of Worsley Turk blood, made $\$ 200$, 15 months old, full of Worsley Turk blood, made sexpert
to the bid of R. E. W. Stephenson, a Liverpool exp The sow, Ramsey Primrose 16th, a four-year-old, apiece quite readily. The Major herd of Large Whites always combines the good characteristic head with length of body, shoulders well laid on, and large
hind quarters, with limbs and feet well developed by exercis.e.
Some
Some folk, who ought to know better, are trying to put obstacles in the way of holding this yearer. They are declaring that the railways, are too congested tion in the world causes.
It is estimated that $\$ 5,000,000$ are invested by Britishers in their Hereford herds. At a sale on April $12, \$ 1,025$ was made by L. M. Garbutt's Leen Generica.
sold to P \& G. Hughes, who buy for South Amer sold to P. \& G. Hughes, who buy for South ameril only
This buil possessed much quality, but could This bull possessed much quality, but could ooost get second in the class he was judgelleged superiority of their stock to that to be found in England, hai been met with a little bit of an advertising campaign on this side. The pity of it all is there is noboan in England who can write intellectually about any breed; $I$ mean nobody offficially connected with and
of the breed societies. They are all paid officials and work as such, sans enthusiasm or fire.
Holsteins are selling better in England-I mean Holsteins of just useful quality, judged on appearance At the break up of the late Sir Peter wake at W. $\$ 325$ was highest price paid for a cow, and ar
Mason's sale, at Chester, $\$ 305$ was paid for Golf Firy. There is a row going on between eleven South American exporters who have refused to buy catid unless they will pass the tuberculin test, have decided
British breeders, the majority of whom have atll to only sell their cattle on no test guarantee at the There is a growing impression in England that the cuberculin test is unreliable, and that its uses AlbioN. subject to many abuses

Fr $400,000,000$ pounds of binder twine are used in the

## rations for

 know not of it. In tas a distinc steads. Stil bers warran with those and profitab and care req
sows and th tose buines The sight of
Henry Buch prompted a ind of farr rm. They of any kind.

## Making Pork on Grain, Roots and Pasture.

It is generally considered that hogs should be bred and reared on farms where there is considerable dairy offal the be disposed of, and that under such Some authorities advocate hog raising only when the number reared consume, as a part of their feed allowance, by-products of the home or dairy. Often farmers raise two litters each year from one dam, and with this small number the offal from the dairy goes a long way in giving the pigs a start and in nourishing and buttermilk are almost always mentioned when and buttern pigs are being discussed, yet there when thousands of hogs produced in Western Ontario that know not the taste of cow's milk or any product
of it. In that district hogs are grown and handled inct line not as a sideline steads. Still there are farms where hogs roam in herds, but are not given the attention and study the numwith those from a well-regulated farm where particular oversight is given to swine, would be interesting and profitable to many. There is as much intelligence and care required to profitably handle a herd of brood sows and their offspring as a herd of cows and their calves. There is result, the pigs are frequently neglected or mismanaged. The sight of a splendid herd of swine on the farm of Henry Buchanan \& Sons, in Kent County, Ontario, prompted a representative of this paper to secure from those farmers their methods of breeding and caring or a comparatively large number of pigs. This kind of farming is distinctive in character, for the hogs are dependent only on the feed produced on the selves, not depending upon the dairy or by-products of any kind.

Care of the Breeding Stock.
Eight is the number of brood sows usually maintained to produce the feeders, and it is evident that the care accorded the breeding stock is responsible
in part for good, averaged-sized litters of healthy pigs. In winter $\ell$ the sows have the run of the barnyard, and the privilege of choosing any side of a large straw stack. The cattle are fed considerable corn, and the breeding swine subsist mainly on what they can glean from the droppings. Sometimes this is not sufficient. Roots and meal are then supplied in sufficient quantities to keep them in a good, healthy,
thrifty condition, but not fat. However, circumstances have arisen when the brood sows were getting more from following the cattle than was required and young stock was turned in. The amount of feed is judged not by pounds or quarts but by the appearThe treatment of the sows in summer is also conducive to strength and thrift. A large pasture and old, are turned. The to this the swine, young to pens where they are fed, but the sows subsist almost altogether on grass throughout the summer. At least one week before farrowing the dam is brought
to her pen at the buildings, and allowed to become accustomed to the surroundings. Roots then take the place of grass in the daily. allowance, for it is those properties conveyed feed is necessary to supply green vegetation. Charcoal, ashes, sulphur, etc., are also placed within reach of all confined stock, but Messrs. Buchanan state that the effect of the sub-
stances gathered from the soil itself can hardly be stances gathered from the soil itself can hardly be
duplicated by feeeding such materials as have been duplicated by feeeding such materials as have been
mentioned. Exercise and "roughing it" are considered essential, but at no time is the breeding stock allowed to get too thin on account of lack of feed. The sows are selected both for conformation
and producing ability. This process of selection goes on year after year, and at present the average per sow per litter is about eight pigs. This is obtained generally twice a year, and from 125 to 130 hogs are
old before they are ready to go. The objection these hog raisers have to selling at around 200 pounds of pork, more pigs must be reared. This would necessitate the keeping of more brood sows, and as the number of breeding stock increases, the average number each litter would decrease. The cheaper gains made by young pigs, it is thought, would be more than counterbalanced by the expense of the extra sows would be necessary to maintain. Furthermore, there is the matter of pens and room which the large number of small pigs would require. The price tory bid the finished hogs increase in weight unti they sometimes become quite heavy. These wer the reasons advanced for carrying the hogs until finished between 220 and 240 pounds or even more Pasturing the Swine.
Home of the cows, sheep and all the swine have the run of a pasture field on the home place. As pre-
viously stated the growing pigs are fed meal, but the


Fresh Air Whets the Appetite.
 remainder consists of $1 / 2$ oats with the of barley and corn. If the equal parts on a cement floor they are put, as soon as convenient, into a pen with an earth culty has been experienced in raising young pigs on
cement. After two months the trouble ceases and th litter is returned to the piggery, or let out to pasture During the growing period, the stock is fed meal and roots only twice a day. This method of feeding was suggested some years ago when a bunch of pigs morning and again in the afternoon they betook themselves to the corn field, but after each visit they spent their time rooting in the ground, or resting in a comfortable place. It appeared that sufficient was acquired on these two occasions, and the system has been at noon, but the meal only ater of course is supplied The number of hogs turned off at evir mo. age is not large. Usually they are fed to weigh be tween 220 and 240 pounds, and this means an eight or nine-months-old animal. Often the best two or three in each bunch will be ready before the others, but the majority of the lot are eight or nine months

## A Healthy Family

sows subsist chiefly on grass. After haying and harveat the stock have the run of some fields. Without pasture Messrs. Buchanan fear they would not have In the fall a field of corn is usually hogged down, and this is a time-and-labor saver.
Not much difficulty is experienced with regard to fencing. When the young fellows are well yarded at for holes through which they may escape they looking pasture and give little trouble. However, if a litter of pigs gets the habit of finding holes and learning that escape is possible, they will find any weak place in the fence, and probably give trouble in adjacent crops. It depends largely on how they are reared ctions during their period in the pastus

Finishing Hoge.
Chop and roots are the main feeds. Two propor- tions for combining the different grains are considered good. One ration consisting
of $1 / 3$ oats and $/ 3 / 3$ corn give mixture of $1 / 6$ corn and $1 /$ oats and barley is equally good or better. From beginning to end an effort is made to keep the pigs thriving and in good condition. They are not forced at any pigs are guarded against so lar as possible. Often one or two in a bunch of pigs
will not do so well as the will not do so well as the pigs are sold off the smaller pigs are sold off the smale and profitable pork.
Making Pork Largely in Summer.
From seven hundred to
a thousand dollars worth of hogs are turned off annually by Bodkin Bros., also of Kent County, Finishing it with grass and the warm weather it is believed that one half more growth can be obtained in summer than in fed well on same amount of feed. The young pigs are weaned. Bodkin Bros, purchase shorts for the then swine, and have considerable skim-milk and butm milk from the number of cows they milk to supply the home. In the spring the litters arrive during the latter part of March arrd the first two weeks in April, and those are finished off during the autumn. Th fall litters are not forced, but kept growing through are rung and turned to grass. The practice the pig of sowing small fields of clover and rape for the hogs, and alternating between the different fields so they are not grazed too closely. Red clover is found best, and alfalfa it is believed would be good sown broadcast. During the last cultivation of the corn field rape is sown. The success of this seeding depends much upon the season. Sometimes it does not produce much pasture, while in other cases it grows well and produces a stand ten or twelve inches high. This has been found to be a good fall run fo pigs are ready to go in June, July and August, and pigs are ready to go in June, July
the spring litter later in the season.

The winter feeding of the young pigs consists shorts, chop, milk and buttermilk. The feeding meal continues on grass but they are shut up about three weeks to a month with extra feed before being
turned off at 220 to 240 pounds in weight. The turned off at 220 to 240 pounds in weight. The
finishing ration is made up of oats and barley and wheat or corn. Corn is considered a little better for finishing than wheat. Bodkin Bros. prefer to
feed their wheat, rather than sell it for less than $\$ 1.00$ per bushel. Chop made up of one-third corn or
wheat and two-thrids oats and barley, which are grown together, gives excellent results.

Editor "Tar aine's
Editor "The Farmer's Advocate
I noticed in the pages of "The Farmer's Advocate" that silage is referred to as "canned sunshine. it is within easy memory, "when the product of the silo sympathy with the new way of preparing feed for diry cattle. Whether the change in the general at-
titude of the people is because of a better undertitude of the people is because of a better under-
standing of the product, or because of a better product, is the reason that your articles on the growing of corn for silage purposes has been of more than masture stalk that did not produce an ear has practically an equal amount of nutriment with the stalk that produced an ear, weight for weight, is, I think, correct. I claimed, as far back as 1882, when I first filled a eilo, that in producing an ear you delleted the stalk, in other words, in the case of the stalt that produced It was distributed. I remember discussing this question, and the answer was that nature made a special
provision for the production of an ear. However,

## Preparing for a Full Stand of Corn

Corn is king of fodder plants. This fact is generally Corn is king of fodder plants. This fact is generally
recognized in all sections where corn can be successfully grown. By seed selection and acclimatization, corn, a native of the South, is now grown for fodder purposes
 by the most optimistic
corn ent husiast. No other corn enthusiast. No other
crop yields so much feed crop yields so much feed
per acre and few crops
can be utilized in so many ways. When mature it
supplies a concentrate supplies a concentrate
that is valuable for fattening stock, and whether mature or not it furnishes
roughage, that is prized area for growing corn fo area or growing corn to a
husking is limited to
small acreage in Canada small acreage in Canada
but corn for silage pur poses can be grown in
most parts of the country if the proper varieties are
selected and the ground selected and the ground
carefully prepared. The
acreage devoted to corn has greatly increased dur-
ing the past few years, but even a greater num-
ber of acres could be profitably grown on most
farms. The crop is taking
an important place in the anconomy of feed produc-
tion. It may be cured in the field and fed dry, or
stored in a silo to furnish a succulent feed during
the winter. By its heavy yield of nutritious fodder
it has demonstrated that it is worthy of consider-
ation on every farm when
the season's being planned for. The
yield of fodder or shelled corn varics with th
quality of seed, soil pre
paration, and the season A Good Ear of Flint Corn. careless planting are re-
sponsible for low yields. It costs very little more
to grow a good crop than it does a poor one, and an
endeavor should be made to overcome the ohistacles that
stand in the way of a good crop of corn.

## Preparing the Soil. The corn crop is rather particular about the bed that

 The corn crop is rather particular about the hed thatis prepared for it. Of whatever kind of soil it is made
there should be sufficient cultivation given to have it i fine tilth and warmed up before the seed is sown. Con
revels in a soil supplying a large amome of nitroge revels in a soil supplying a large amount of introgen
and where there is decaying vegeteble mater. O
river flats or muck land, where cetcal crops woul produce an excessive amount of straw, protably lodging
and giving a poor yield of grain, corn , iourishes It
appears to be able to make use of fertility furnished appears to be able to make use of fertility furnished
through the decaying of organic matter, as mature soding-plowed sod. Grass roots and manure gradually
decay during the summer and furnish the plant food
desired by the growing crop, besides keeping the soil
somewhat open, which permits the rootlets to penetrate easily.
The
The field for corn this summer has been, or should have been, decided upon long ere this. As to which gives the better results, spring or fall plowing of sod,
must be decided by the individual on his own farm Some prefer one method, some the other. Soil conditions vary and treatment that gives best results on one farm may have detrimental effects on the adjoining farm. Clover is a good crop to precede corn,
but old sod is quite suitable provided it is not infested with white grubs or wire worms. Corn is frequently grown on stubble land and responds very well. Where the field was plowed last fall, it is a good plan to give it a to carry the horses this spring. This treatment forms a mulch and prevents loss of moisture. After the excessive amount of rain this spring some may think
that this is foolish advice, as the ground is full of water. that this is foolish advice, as the ground is full of water.
However, the moisture may all be required before the crop is matured. From twelve to fifteen tons of manure is a fairly good application for clover sod. This may be applied during the winter whether the sod is plowed or not. On fall-plowed land some prefer cultivating the manure in, while others plow it under. Either method
proves satisfactory, provided the manure becomes well incorporated with the soil so that it will not bother seeding or summer cultivation. On stubble land the in making a seed bed and destroying weeds. On sod
 and left until spring to be broken up may be plowed early in the season, before other work is rushing,
many prefer leaving the grass grow up through the
manure and delay plowing until about the middle of increases the supply of plant food. Whatter to decay and
plowing is done the final preparation of the seed bed will be made easier if each day's plowing is harrowed
or disked the same day it is plowed. This is especially True in case of heavy clay where one day's hot sun wil
bake the soil if it is at all wet, so that extra work is
entailed in pulverizing it. Cultivation soon after plowin prevents the sol baking in large lumps. It is not or decaying vegetable maiter should be where the deep has proved very satisfactory on many farms. At
this depth the disk cuts the sod up pretty well and aids
in causing the capillary tubes of the soil te conneet wh so there will be a supply of water drawn from the sub-soil to the plowed application of strawy manure plowed under in the spring and the soil not thoroughly worked, caused the soil to dry out to the depth of the plowing, thus hindering germination of the seed. Evidently the coarse manure prevented moisture rising from the great soil reservoir. It is claimed that when sod is plowed in the spring the heat gencer aids in warming the soil and makes growth of the corn more rapid.

## Testing the Seed.

While the seed bed is being prepared some attention should be paid to the seed supply. No doubt but that the variety, 'or varieties, best adapted to the particular corn is purchased on the ear so much the better. Taking one year with another, corn shelled from the ear just before planting and the poor tips, butts or whole ears discarded results in an evener and more uniform crop than is secured from butk corn. There is inheritance in corn and the grower should know the kind of ear and better still the kind of stalk that produces his supply of seed. Seed selection has in some cases, and at the same time increases the quality of fodder. The vitality of the kernels should also be ascertained before planting. It is a satisfaction to know what percentage of seed will germinate, so that the rate of seeding may be regulated to ensure a full stand. No matter how well matured the corn was when cut, or how thoroughly it was selected and dried last fall, the germination may have become injured during the winter.
may be surprises in store for many who test their seed this spring, or disappointments for those who do not. Testing is not difficult when the corn is on the cob. Take a box about two inches deep and two or three feet square and fill it nearly full of moist sand or saw. dust. Divide it off into one-inch or inch-and-a-half squares by driving nails along the edge of the bor and stretching strings across. From each ear taker
six kernels, two from near the butt, tip and center, six kernels, two from near the butt, ip ane square in
(three from each side, ) and put them in one the tester. Arrange or number the ears and squares to correspond, so that the ear that shows poor germination may be discarded. When the squares are filled, cover with a cloth, then put moist sand or saw. dust on top and place in a room where the temperature comfortable. In a few days growth will start and only ears that show 100 per cent. germination shou laborious task. From 15 to 20 good ears is sufficient to plant an acre in hills three-and-a-half feet apart each way, and four kernels to a hill. If planted in drills about twice this amount is required. If the germination is not quite what it ought eo should be increased accordingly, in order to secured ine proper number of stalks perll as corn on the ear, in order to determine the quantity to sow per acre. If possible avoid purchasing bulk seed. Time may be at a premium this spring, but it would be a case of penny wise and pound foolish" not to test the seed corn

## Planting the Corn

Success or failure of a corn crop depends a good dea good seed on hand, the grower should be in no particular hurry about planting unless all danger of frost is past and the soid growth heat to produce quick gelanting, it depends on weather and soil conditions. Some years the soil is sufficiently warmed by the middle of May, while other years bett results are obtained by delaying planting untif placer June. There is danger of the kernel rotting if placeil prepared early and any extra cultivation will do no prepare

The amount of seed per acre will depend on the method of seeding. Planting in hills forty-two inches bushel will plant six acres, although it is safer to put in a little more to make allowance for any plants desurt out by crows or white grubs. It is an easy many. By use a stalk or two should there be too many. By uns
of a check-row planter the seed is planted uniformly of a check-row planter the seed is planted uniformy and rows may be kept straight. The hand plantert to
still in use on some farms, but it is more difficult to plant at a uniform depth than it is with the machine. lengthwise and crosswise of the field, in order to have them an even distance apart. The seed is planted of cultivating the field two ways which lessens the hoeing. More thorough cultivation can be given than when working only one way and it is claimed thay
yield is improved. Undoubtly it is for husking purposes, but even larger crops of fodder have been secured from drill planting. The mechanism of the check-row plant. may be changed so that it will sow raite satisfactory The ordinary grain drill also proves quite satisfac tows thirty-six or forty-two inches apart. Thirty or more seed per acre are required when sowing rills. This is considerably more seed than is requigo for hills, but there are many prominenting a wram man to a depth of three or four inches, and the corn ph
from one-and-a-half to two inches deep should
crop a sood etart. After planting, a light harrow The harrow may be used until the corn is three or four inches high, especially if the ground has become firmed with heavy rains. On loose soil care must be taken as as the rows can be followed the cultivator should be put to work, and kept going every week. Corn is one of the crops that responds to cultivation during the summer. Sometimes considerable corn is destroyed by the
crows, especially if it is a little slow in coming uip. Coal-
tar applied to the seed before planting is claimed to Paper or bright tin strung across the field will also frighten the crows away. Poisoned grain may be used to destroy these robbers but there is danger of killing many innocent and beneficial birds. When conditions are favorable to rapid growth the corn soon passes the
stage where it is subject to injury by crows. Every grower should know the vitality of the seed he sows and then put the soil in a condition to lessen the danger of a poor stand of corn. Why grow half a crop when

## Conveniences and Equipment on a Kent County Farm.

To make farming congenial, both in the home and in the fields, one should look to it that the management every year. This is only the first step, for a large income will not insure a pleasant life in the country, if some capital is not expended on conveniences in the home and in the stables where the women and men have their duties to perform. If a portion of each year's receipts can be expended in "fixing up" it would be the buildings will be returned in cold cash while that invested in the home will come back manifold in the health, pleasure and contentment of the family. It is becoming more and more common every year that one happens into country dwellings, often some distance from town or village, and finds them equipped with electric light, modern conveniences that can be installed vantages, without the disadvantages, of a strictly modern urban home. The average agriculturist cannot expect to equip his dwelling and stables with electric light, a modern water supply and conveniences, with an automobile, silos, all kinds of labor-saving machinery and good, up-to-date buildings. A farmer may consider that one of these will make life more pleasant and
he takes steps to procure it. Another man may desire some other form of equipment and he installs it. Im provements must be made gradually under farm conditions, but there is always the opportunity to add some little thing that will help. A few ideas were gleaned by a visit of a representative of this paper to the farm of John Buchanan, of Kent County, Ontario. These may be of interest to many, for we find that those who
accomplish most in farm life are open to receive sug gestions. Some they act upon, while others the gestions. Some they act upon, while others they good advice one receives seldom comes from the same source. In the following paragraphs something may be suggested that will be found applicable.

## The Farm Water Supply.

The most outstanding convenience observed on the farm of Mr. Buchanan was the pressure water system. This supplies the stock at the stables with floor of the dwelling. When taking steps to install the system Mr. Buchanan could not learn of any in stance in Ontario where it is used on a larger scale than in the home. He desired to extend the service to the stables and nearby fields. A tank 12 feet long and 5 feet in diameter was made of $1 / 4$ inch rolled steel approach to the lurers. This was placed under the approach to the barn and made frost proof. The and a two-geared bull-dozer pump with an air pump attached. It has a 3 by 5 -inch cylinder, a tight and loose pulley $21 / 2$ by 14 inches and a capacity of 900 gallons per hour. The pump and engine cost $\$ 200$ and the tank another $\$ 200$. All of these could have been obtained at much less expense but as it was something water is lifted 8 feet and brought through a $11 / 2$ inch
pipe from a well 92 feet from the tank. From there it is forced to the house a distance of 350 feet, and to of 25 feet. The pipes are attached to the room, a lift the kitchen range, so hot water, as well as cold is avail able at all times. A septic tank outside the house take care of all the effluent from the bath room and kitchen and discharges it into a large soil drain running near the dwelling. In the stable are taps and hydrants that supply water to the stock where and when it is required. The mains are $11 / 4$-inch pipe and the laterals


A Good Cement-block Silo.
1 -inch pipe. Provision is also made to supply water to the different fields lying adjacent to the barn, to water the lawn, wash wagons or the automobile and about the buildings. In winter over 20 barrels are used daily but the tank has a capacity of 1,760 gallons The engine is only run for 30 to 45 minutes each day and uses about one gallon of gasoline per week. By having a pump and engine of greater capacity than

気


Combining Two Teams.
One dibc harrow fastened behind another in ube on the farm of John Buchanan in Kant County, Ont. The dives on the froat


A Serviceable Stock Rack.
A type of rack used by John Buchanan, of Kent County, Ont.,
is so light that less gasoline is needed. Fifteen pounds is considered a good working pressure in the tank, for this easily raises the water to the bath room. The taps also deliver the water more satisfactorily could be purchased at much less expense than is recorded here and Mr. Buchanan states that a system might be installed for $\$ 500$ or less. This depends considerably upon the length of pipe required and the ize used. The water problem is apparently solved on this farm for the outfit is satisfactory.

## Silo Fixtures.

Many different types and styles of silos are built every Many different types and styles of silos are built every
year, and it is harg to say which is the beat. Mr.
Buchanan has a cement-block silo, with a 18-foot inside diameter, which gives excellent satisfaction. The method of construction and the continuous door are worthy of consideration. A two-foot space was left for the door. Up and down each side, a little to the $11 / 2$-inch by $11 / 2$-inch angle iron, similar to the material in a windmill, with the open part to the exterior. Holes were drilled 2 feet apart in the side of the iron, which was placed against the cement block. These were made use of when reinforcing the structure. The ends of $1 / 2$-inch iron rods were placed through the holes drilled in the angle iron and secured there with nuts. This
was done on each side of the door and they were met was done on each side of the door and they were met of the silo. Some difficulty was experienced in getting the right curve on these iron rods. It was finally solved by placing them over a block and hitting them about every six inches with a small sledge hammer. These were imbedded in a groove in the upper suriace of the were really welded into the layer of blocks, so they Buchanan says that if he were doing it again he would make the reinforcing rods into three pieces instead of two. They could be more easily bent and laid, and they would be just as efficient when properly hooked to gether with wire. These rods were laid on every third
course, which brought them two feet apary angle iron used as the upright in the door would be better if one side were 2 inches wide and the other side $11 / 2$ inches. The 2 -inch side, through which the hole would be drilled, would make it more convenient for screw ing on the nuts. Thrpugh the sides of the uprights, which stood at right angles to the cement blocks, holes were by 1 inch and two feet long were riveted on. These are used as a ladder by which one can get in or out of the silo. The door itself is made of 1 -inch lumber, with a small block nailed at right angles to each end, both on the same side. These blocks should be of such dimen sions as will make the door come flush with the inside wall of the silo, otherwise air will get in around the opena continuous door and the different pieces are taken off or put on, as the silo is being emptied or filled. Whether the doors are in placeor removed and hung away ther are always the iron cross pieces by which one can climb in or out of the silo. There is also distance enough be tween the crossbars and the door co allow anyone climbing up che liders principle. The silo itself is made of about 1,350 cement blocks, $8 \times 8 \times 16$ inches. These were made of river gravel and cement mixed in the proportion of five to one. It cost eight cents apiece to make and lay the blocks, the contractors being provided with cement and gravel. Outside of the work performed by Mr.
Buchanan, the silo cost $\$ 217$ without the roof. About $41 / 2$ feet at the bottom of the structure is slop cement About $21 / 2$ feet of this is in the ground and two feet above. The hip-roof which may be seen in the accompanying illustration allows the silo to be filled serveal feet above the top layer bloclim, for the hip is
five feet above them and twenty inches in. Several as the silo was being built. These have been found as the silo was being built. These have been found
very convenient as stays for ladders, and for other purposes.

A Hog Reck.
Where it is necessary to deliver any number of hogs to the shipping point, it becomes necessary to have some form of stock-rack. The one illustrated in these columns was built and is used by Mr. Buchanan with considerable satisfaction. The illustration largely ex-
plains how it was made. The sides and ends are separate and are fastened together when placed on the type of wagon box common on many farms. The board at the wottom of the rack is 6 inches wide and is given an offset of 5 inches with a rise of are bolted to four the four narrow boards above it are which are made of $1 / 2$-inch by $13 / 4$-inch bar iron. The two centre uprights it into one one clasp uprights fit into a clasp both at the top and bottom of uprights wagon box. This prevents the sides from falling either in or out. The rack itself is 30 inches high.
The chief advantage in this rack, is the offset or the
width. The hogs stand across the rack and are much width. The hogs stand across the rack and are much
more comfortable than when the rack is the same width more comfortable than when the rack is the same width as. the wagon box. This equipment down. When more hogs than the raing for the shipping point a quantity of green stuff is put in the bottom of the rack. This tends to keep the hogs cool. If it is necessary, cold water is thrown on them en route to the station.

## "As a Man Thinketh

Editor "The Farmer's Advocate": I hae been warkin' pretty steady lately, an' havena'
d over muckle time for talkin' or
or had over mucke thime tor tat in interererin' 'tin his wark tae ony great extent, an among ither things day is the fact that we are in the habit o' makin' oor
guid resolutions an' promises tae refrom in the cauldest guid resolutions an' promises tae refrom in the cauldest
an' maist depressing time o' the year. I'm beginnin' tae understand noo why there are sae "mony broken pledges amang those that dae their swearin af vironment, an' ye ken that when a mon is surrounded by discouraging circumstances he hasna' muckle heart
to pit up a vera guid ficht against his bad habits. Everything is dead an' cauld at the beginnin' o' the year, an' it's na time for ony special activity in the
maither o' turnin' over a new leaf, unless ye happen tae be in the habit o' doin' that ilka day onyway it mak's a mon think o' some things that are na likely tae occupy his thoughts at ony, ither time Ilka thing in Nature seems tae be comin' tae life an'
gettin' ready for anither attempt tae feenish oot the gettin' ready for anither attempt tae feenish oot the term ${ }^{\prime}$ ' existence that must be lived in some way or an' noo they're beginnin' the wark o' their day. Sae o' the year as a time tae patch up oor guid resolutions of the past, an' mak a few new ones maybe,
an' sae get a' the inspiration that can be had frae ootward condeetions as weel as frae the inward knowledge that we are makin an honest attempt tae be a wee bit mair been in the past. There's one thing aboot
than we han' this fresh start alang wi the trees an' the plants, an' that is that ye can get a reminder noo an' again a' simmer tae tak' note o' what progress ye are makin' for ye will see that, no maither how
slow the growth o, the flower or the tree may be, it never staps, but ilka day it is a wee bit ahead o' what it was the dae na reason tae be discouraged. The
example we will hae
trouble wi' maist o' us is that this style o' progress trouble wi' maist o' us is that this style o' progress,
doesna' agree wi' oor twentieth century nature, an' we are in sic a hurry for results that first thing we
ken we tak' a tumble an' then maybe get discouraged an' quit. But gin ye gang tae Nature for advice she years back o' plantin' a wee spruce tree that I pulled up, by the roots one day late in the spring. I wis
no to say very carefu' aboot it, an' some o' the roots got broken, but I stuck it in the groond onyway years live or not. It didna' seem alble tae mak' ony
tae thath, but it wouldna' dee. But at last it made a
growth,
start an' it's a braw tree the noo, wi' guil prospects o' livin' for the next hundred yoars or mair. A' the
time I wis thinkin' it wis gacin' tae due it wis getin its roots doon int the sol an when it got a guld hold
it started tae show what it could dae. Sae it micht
chance tae be somethin' like that wi' oorselves. The chance tae be somethin hee that wi oorselwes. The
breakin' awa' frae auld habits micht be mair o' a
jolt tae oor systems than we thought for, ann what
progress we made for a while micht no' he visible


 the fact that the tree's growth is o' at physical nature,
while ours is mental to al arge extent. Sae it happens that we hae some deeficulties that somectines hauld us
back that dinna' come tae the lower forms o' |ite.


end 'o' trouble. It's at the bottom o'maist o' his sick mon is a rascal." For when he's sick his wrang thinking gets mair control over his actions than ever, an' mair aften than not he gets discouraged an, gies up tryin', tae get weel or onything else. Mony's the mon, an' wumman has commelted on the idea till it forced them tae action. There's no' mony that gang this far, but ilka ane o' us, I'm thinkin' dae mair wrang thinkin' than is guid for us, an' there no tellin' where it will land us gin we dinna cut oot. It will keep pullin' us frae "pilar tae post
we are clean wore oot an' ready tae drap intae the we are. I hae in mind a preacher that I wis acquainted wi' at one time, that wis a guid example what wrang thinkin can dae for a mon. He coul get up a guid sermon, the same chap, an mony congregation. But he got it in his heid that he wisn daein' muckle guid an' that he could live a better lif on the farm, tae say naething ondayin mae he rented a wee farm an' bought a couple o' coos an' a team o, horses, alang wi' what machinery wis happy eneuch But he got tae thinkin' after a while that the farm wi over small tae keep a family on, tae say naething pittin' ony money by, sae he hunted roond till he
found a farm o' the size he wanted that wis for sale, $\mathrm{an}^{\prime}$ he bought it. But he never moved on to it, for he got thinkin' again that 'he wouldna' be able ta mak' the payments wi' interest $\mathrm{an}^{\prime} \mathrm{a}^{\prime}$, sae he got a
chance an' sauld it wi'oot losin' over muckle on the transaction. His next move wis oot West on to quarter section that he got for little or naething an' we a' thocht he wis settled at last. But he mu wis got tae thinkin' again for first thing we heard the congregation in a church no' far from the one he had before he went tae farmin'. He's moved twa or three times since that, but I hae kind o' lost track o'
him lately. Sae ye see what a certain kind o' thinkin' will dae tae a mon. An' there's worse lines o' thocht than this yet, as we a' ken tae oor sorrow, na doot This is ane $o$ ' the things that we ought tae includ號 the start. Tae substitute thochts that we ken are sound an' healthy for those that are wrang an' likely tae mak shipwreck o oor lives, will mean all the
difference between success an' failure an' between happidifference between success an failure an "between happiness an' misery. "As a man thinketh in his heart, so Tak' my word for it. Gin we could realize what it means tae us in the course $0^{\prime}$ a life-time on this earth we wouldna' hae sae muckle deeficulty in livin up the spring or resolutions, whether we made them in mind that spring is a bonnie time tae mak' the start now, an' ye'll never be younger tae try it.

There is More than Money in Co-operation.
Editor "The Farmer's Advocate":
A rather notable letter from one signing himself J. L. appears in your issue of April 27 ; notable, indeed, bur rather for a sort of shallow and callous materialism. man no advantage over the stupid and inefficient,"
says J. L. This is true only in so far as altruism bids mon weal. "It is more blessed to give than to restrong ought to bear the infirmities of the weak."
Predatory braininess, and efficiency regulated selfishness, lead but to misery and death, as witness
the situation in Europe to-day; whereas the spirit of co-operation, even if it does involve the sharing
by the inefficient of the results of the brain power of the efficient, leads to life, health and happiness. Withcause the co-operative movement is a hollow mockery.
This is why the movement in Great Britain has been so successful, and why the movement on the American
continent has been relatively so unsuccessful. The
spirit of the British movement is well suggested by British Co-operative Congress: "You should take



 perfect upightness, being all the teme conten with
lower pay than they could have got as business

exploit and oppress. Consequently, we have a state of public corruption and malfeasance that beggans description,
Therefore, the brainy man who seeks but to his powers to take advantage of his less brainy neigh bor, loses far more than he gains, and will ultimately lose everything-including his possessions.
But there is another respect wherein the brainy man does not sacrifice himself, and lose the results of his exceptional powers. He can grow more and
better crops and stock than his less efficient neighbor and no system of co-operation ignores quantity and quality. His example in this case will have more influence for good if he is a member of a co-operative society than if he is not, and will thus tend to raise the average quantity and quality of production. the marketing of produce," says J. L. Most cer tainly. And co-operation means far more than the marketing of produce. It means better men, more intelligent and more efficient men, and greater and better production. What sort of a fight could the
British people put up against the Central Powers if they did not co-operate, if the individual did not lay his life upon the national altar? What a situation we should have if every individual claimed accurate most capable and efficient officer should be shot dow while leading his men in the attack! But these are compensations.

Moreover, there is another warfare which will claim our devotion when this present frenzy is overthe warfare against ignorance, disease and $\sin$. In this perennially great warfare the spirit of co-opera Further, let J. L. figure out agriculturists have for securing economic fair play in the modern world. What was the condition of Ontario fruit growing prior to the general adoption of co-operative methods Brant Co., Ont

## Millet-A Catch Crop.

Millets are among the oldest and most widely groom is agricultural lants. The seed in one torm or anothe globe, and both the fodder and seed are used for feeding stock. There are many varieties and species, each varying from the other in habit of grownt, prowuederer
ness and ouality of fodder. Millet is a hotweather ess and quality of fodder. Minet-is a hot-weathe rop and shour not be stry it is considered largely as supplementary or catch crop, and if the seed-bed is properly prepared it may be sown with success as late as the latter part of July. The acreage devoted to the crop is comparatively small in this country. Seldom號 crop at the proper time, the soil might profitably be Wn to millet to be grown for grain, hay, soiling crop, or the hay crop promises to be below normal, lan may be broken up and sown to millet to furnish hay Some of the varieties under favorable conditions produc Soils naturally warm and friable and filled with egetable matter which furnishes plant-food in readily millet. Immense crops are grown on muck soils from drained swamps, and also on well-tilled, clay land. soils are not adapted to growing this crop. It is very seldom that a rotation is planned that takes in mille as it is usually grown in this country as a catch crop
Where some other crop fails, the soil can be preparei and sown to millet. As seeding can be delayed until the latter part of June or July, the soil may be given a partial summer fallow to destroy weeds before the crop is sown. Thorough cultivation during June is hard
on most of the noxious weeds. Under favorable cone ditions the land may be plowed and sown to millet Fall wheat has been sown after an early crop of millet, but the practice is not to be recommended as milet ity
generally considered to be a heavy feeder on the fertility of the soil, and also leaves it much depleted in moisture start. The soil should be in good tilth before sowing in a dry time. The seed loses its vitality very quickly quick germination, the seed may be lost. It is not used they should be incorporated with the top soil, as the millet plant is a surface feeder.
Among the many varieties that have been tested out on the experimental plots at Guelph, the Japanese
Panicle stands at the head of the list. Sown on June
16 and fodder for five years was 9.58 tons, and of hay 4.05 tons.
In the three months between seeding and harvesting
it attained a height Mattained a height of three feet. Holy Terror Gold
Mine, Siberian, Steele Trust, Early Foxtail, Japanse yield of green fodder and hay. The Japanese Panicle produces plants of an upright growth, a spreading head
and large leaf development. The seed is smooth, shiny and of a dark-brownish color. In purchasing
seed this variety should not be confused with the Jap-
of-May to $t$ o June 20 For early se or late seed ame family pounds per better result
sown at a almost sure and weather Cutting s ready to b y the time iently adva eight and According onstituents, wo per cent

May 11, 1916
of May to the middle of July, but seeding from June 1 to June 20 gives the highest yield of green fodder.
For early seedings, the Japanese Panicle and Japanese For early seedings, the Japanese Panicle and Japanese Barnyard varieties are usually the most suitable, but
for late seeding Hungarian Grass which belongs to the same family of plants, is preferable as it requires a shorter season for growth. From twenty-five to thirty pounds per acre is the usual seeding. Drilling gives sown at a more uniform depth. If the weather turns cold or some time after sowing, the germination is
almost sure to be imperfect, for that reason the ground almost sure to be imperfect, for that reason the ground
and weather should be warm before attempting to sow. Cutting for green feed may begin as soon as a number of heads have appeared, and may continue until the crop
is ready to be cut for hay. By seeding at several dates the period of feeding as a soiling crop may be prolonged.
By the time the heads are all fully out the crop is suffiBy the time the heads are all fully out the crop is suffi-
ciently advanced to be cut and cured for hay. If the ciently advanced to be cut and cured for hay. If the
millet is cut for hay before it reaches this stage, it lacks weight and nutrition when cured. If lecome woody and are not palatable.
According to fodder ranks very faverably with, red clover in all
constituents, except protein, in which clover is about two per cent. higher. As hay, clover is much superior in protein content, although millet has the preference
in percentage of fat and carbohydrates. The total in percentage of fat and carbohydrates. The total higher in the millets than in clover. Thickly-seeded, early-cured, millet hay is useful for feeding cattle.
When fed in moderation, good millet hay along with other roughage and some concentrates should prove
satisfactory for feeding horses. Where millet comsatisfactory for feeding horses. Where millet comprises the entire ration or a long period, it is claimed
that it causes an increased action of the kidneys, lameness and swelling of the joints, and destruction of the exture of the bones. For all classes of stock care must be exercised when feeding millet hay. As green feed
it has a more favorable reputation, as there is claimed to be no danger in feeding it at that stage.
The seed somewhat resembles oats in composition,
but very little experimental work has been done to but very little experimental work has been done to
determine its feed value determine its feed value. When finely ground it has
been fed to colts and young stock, with fairly good been fed to colts and young stock, with fairly good
results. The seed is frequently used as part of a poultry ration.
Millet proves fairly satisfactory as a catch crop, ut it is doubtful if it would ever be advisable to in-
troduce it into the regular rotation in this country.

## THE DAIRY.

An Incentive to Improve the Herd. When the Dairy Act, relating to paying for milk will be an incentive for patrons to select and breed their herds for butter-fat production. Under the old
method of paying according to quantity, the patron with the low-testing herd was being paid more than his milk was really worth for making cheese, while
the high-testing milk was sold below value. Numerous the high-testing milk was sold below value. Numerous
tests have been made which prove beyond a doubt that there is nothing fair in paying for milk, accorddifference of one-half per. cent. in the test makes a
difference of twelve cents in the value of cheese made difference of twelve cents in the value of cheese made,
from 100 pounds of milk when cheese is selling at fifteen cents a pound.
neighbor, and yet in many factory sections this is testing herds has been taking place. Evidently lowbasis would have been universally adopted long ago,
and there and there would have been no need of legislation in
order that justice might be meted out to all patrons The new Act is in the interests of the dairy in-
nustry, and instead of there being only a few hightesting herds in a factory district as at present, it will tend to raise the average test and incidentally the
returns from the dairy herds. Dairymen and cheese makers should co-operate and do all in their power
to pomote paying for milk according to quality. improving it. True, the test of the present herd can-
not be raised, ancestors the offspring usually prove to be better
than their dams. The easiest and most satisfactory way of obtaining a high-testing, highi-producing herd
is to weigh and test the milk from each cow regularly
then then save the heifers from the best. Attention must
be paid to the breeding of the herd sire. He is considered to the halfeeding of the herd sire. He is con-
only and if his ancestors were only averace the offspring cannot be much better.
By pavina a thention to breeding, the average yield
and quality of milk per cow will be much higher and quality of mink per cow will be much hisher
ten years fom now than it is at the present time.
If the averace in cow per yage, it raised by 1,000 pounds of milk per increase the profit by at least
ten dollars without addition in the cost of the sire. The average mene, unless it is
fat y it butter-
done. Whon be inceased, and we believe it will be done. Whon the dairyman with milk testing 3 per
cent. receive twelve cents per hundred pounds less
than his naighbor who sells 3.5 per cent. milk, he will
soon than his neighbor who sells 3.5 per cent. milk, he will
soon beemin to apply the ways and means of bringing
his herd uf to the 3.5 per cent. or even higher test. It isn't a matter of improved stabling or specially-
prepared feed that makes the difference. It is the
breeding that

Value of Pasteurizing Dairy Byproducts.
From a "safety-first" standpoint it is generally conceded that milk or cream for human consumption consumers contracting disease or intestinal troubles, due to germs that cause or accompany milk fermentamedium for the growth and provide an excellent some of which may be diseased organisms. By heating the milk to a certain temperature germs are destroyed, and if the milk is cooled immediately to 50
or 60 degrees its period of palatability is prolonged. From both a health and a financial viewpoint it pays But, what of the by-products? In bulletin No. 412 of the New. York Agricultural Experiment Station, dairy by-products, it is clearly pointed out by W. D Dotterrer and R. S. Breed that patrons of cheese
factories and creameries who have unpasteurized factories and creameries who have unpasteurized
whey or skim milk returned to their farms are running a risk of their stock becoming affected with disease which might cause serious loss. It is also claimed that the feeding value of pasteurized milk is greater than that of unpasteurized, and permits of a more even distribution of the valuable whey compounds used as a food for man, they are valuable products for feeding calves and pigs. The unpasteurized byproducts sent back to the farms from skimming stations, butter and cheese factories, may carry germs of disease from any herd in the community to any or curred. Thus disease organisms are spread, new animals become infected, and in this way the danger advent of any communicable disease to the herd also means a direct financial loss to the owner. Pasteurization is found to effectively guard one of the avenues through which disease comes to both man and beast. It is claimed that by pasteurizing these by-products the palatability and food value are preserved, unaltered or a considerable time. In unpasteurized due to the unchecked activities of bacteria and pease, These fermentations are found to lead to changes in the food compounds that lower the energy-producing power provided. It has been noticed that in un-
pasteurized whey the fat soon rises to the top of the pasteurized whey the fat soon rises to the top of the
whey tank and forms a layer, so that the first few whey tank and forms a layer, so that the first few of the fat, while, if the whey is drawn from the bottom, the last man to secure it may get the fat. In
case a pump is used the fat remains in the tank and gradually forms an ill-smelling mass, which is the home of countless millions of germs, and the patrons lose practically all the food value of the fat in the whey. Pasteurization is found to retard the rising
of the fat and keeps it evenly distributed, so that it is fairly evenly divided among the patrons. Many cheese factories have adopted the system, and are well pleased with the improvement in the quality of the whey due to pasteurization. Heating the whey to 180 or 185 degrees Fahrenheit
by the "flash" system, or by holding at 145 degrees for thirty minutes, will destroy most-bacteria and many in the milk. Whey so treated has a clean, sweet smell, very different from that which is unpasteurized, and very good results have been teported from feed-
ing it to calves. Pigs appear to do better on it ing it to calves. Pigs appear to do better on it
than on the untreated product. In one factory where the results of pasteurization have been studied there was a reduction in the bacterial count from
over fifty million to two thousand, and the fat re mained well suspended. After making observations and securing figures in a number of factories, it was
found that heating the whey in a tank by direct steam was the most convenient, most reliable and most effective method of pasteurizing, as well as the leasst expensive. Results point to the fact that it is to
the interest of the patrons of all cheese factories to have the whey pasteurized before it is returned to the farm. The same would hold true in case skimmilk was being returned. It is one way of prevent-
ing the transmission of disease organisms, besides ing the transmission of disease o
adding to the value of the product.

## Cost of Marketing Milk.

In bulletin 364 of Cornell University, A. L. Thomp-
son, Ph. D., gives figures which show the actual cost of hauling milk various distances to factory or marherd, the average cost per 100 pounds of milk for 38 or less: 16 cents from one to two miles, and 21 operated with one or more of the neighbors in havil-
ing the milk, the cost per 100 pounds of milk was 12.4 when the distance was 3.5 miles, and 9.5 cents for
5.6 miles. It will be noticed that the cost does increase proportionately with the distance. As the
distance from the factory increased the number of dairymen working together increased, which resulted
in more conomical hauling, as the number of trips
were decreased, while the size of loads increased. were decreased, while the size of oads increased.
Where it was possible for a number of dairymen to
hire the milk hauled, the cost was aguin reduced.
quantity 3.6 miles, and 10.5 cents to haul it 5.8 miles. Labor was charged at 15 cents per hour for hour for horse labor. Milk was hired hauled for 11 cents less per 100 pounds than the individual could draw his own supply, that is, if his time was given any value. The time spent on the road is considerable, and to this must be added the time of hitching at the factory. In all it makes the cost of marketing rather high for the individual. The cheapest way is or a number of dairymen to hire a man to haul the milk for the season. If this cannot be done, two or three dairymen taking turns in hauling the supply considerably reduces the expense of marketing milk along this line might be worked to advantage in along this line migh
many dairy sections.

## HORTICULTURE.

## A Stone Fruit Spray.

Considerable difficulty is experienced by peach growers in any attempt to control brown rot or scab on the
fruit. There are plenty of preparations that will prevent these ills, but they either burn the foliage or stain the fruit to such an extent as to practically mixture are among the number The self-boiled lime-sulphur spray is the only one that can be recommended for application to peach trees that are in leaf and fruiting. This, however, has some faults, which G. C. Starcher, of the Virginia Agricul"It is not easy to make or enumerates as follows: it is not easy to make or to apply, and, moreover, due to the quality of the lime used, the amount of slaking that has taken place, manner of handling the lime, the temperature of the water used, and the amount made up at one time." Some effort has been made at the Virginia Station to discover some preparation that will take the place of selflime was used in place of stone lime during 1915, and the results of the field work were favorable to this mixture. The results were published recently by the Station in bulletin form, and describe the preparation of this new spray somewhat as follows: Take 8 pounds of hydrated lime, -8 pounds of sulphur and 8 gallons boiling water: The lime and sulphur all the lumps. The 8 gallons of water are added by mixing the lime and sulphur to a paste as quickly as possible with two gallons boiling water, then adding the other 6 gallons and stirring the mixture for 5 minutes. This material is then cooled quickly by the addition of an equal amount of cold water and
then diluting to 50 gallons. In Canadian or Imperia measure the total of about 41 callons would be equixi lent to the measure of the United States. When paste arsenate of lead is also used 2 gallons is kept out to mix with the paste after which it is combined with the larger quantity making up the total.
No further remarks than are to be found in the
summing up of the author are required, and they are included in the following paragraphs:
"While this fungicide has been tested for only season, the results secured have been very gratifying and as the preparation seems to possess several im portant advantages over those sprays now employed directicommended to peach growers for trial. The followed for making the spray should be carefully trees there is no danger of injury to the fruit and foliage. "If growers wish to try the hydrated-lime and sulphur spray they shouldine sure to secure fresh it in a close package away from the air. It wilt thus keep for several weeks without material deterioration. It should be remembered, however, that neither hydrated nor stone lime should be purchased for use in making up spray materials with-
out a guarantee of purity. Stone time should contain ninety-five per cent. calcium oxide and hydrated lime nearly ás high percentage of calcium hydrate "In making up the spray the sulphur and hydrated lime should be sieved after mixing them and before adding the boiling water. Do not allow the mixture to stand more than five minutes after adding the boil8 pounds of sulphur, 8 pounds hydrated water. Use and 8 add colling water and stir for 5 minutes, then thoroughly agitated while spraying".

The wastage of woollen clothing in the war has accelerated the demand and prices of wool, the avail-
able supplies of which have been reduced further by the havoc of German submarines and mines which greatly-needed article to the bottom of the sea.

The paper famine has become so serious in the appealing to the Canadian provinces which restrict the export of wood pulp, especially from the crown
lands, to relax the impediment, at least, temporarily.

## POULTRY.

## Favors Pekin Ducks.

## Editor "The Farmer's Advocatre"

A short time ago there appeared in these columns an article praising the new "Table Egg" or Indian Runner ducks, which, by the way, is not so very much newer inan are could not resist replying in defence of the ever popular Pekins.
The point emphasized in the article regarding the Ranner ducks was their heavy laying qualities. is true that they lay a large number of eggs in a year,
but I have a bred-to-lay strain of Pekins that lay but I have a bred-to-lay Istrain Runners. At present I have a pair of yearling ducks that began to lay about the first week in March and have laid their egg a day since, with one morning of of about every
two weeks. A point in favor of the Pekins is that the eggs they. lay are very large in comparison with the
Runner eggs. Even if the Pekins do not lay as many Runner eggs. Even if the Pekins do not in as maight eggs as the Runners do in a year, yet but what the
of all the eggs were taken I do not doubt but decision would be in favor of the former, and where the eggs are used for home consumption, as they generally are when no
quantity after ali.
quantity after ali.
Pekin ducks can be kept in close confinement and still lay as well as when given their liberty Indian Runners can also be confined in a small yard, but they are such active birds that they cannot seem to endure their imprisonment, and do not and
they otherwise would. In regard to raising the young ducks and selling at ten weeks of age as green ducks, here also the Pekns
show their superiority over the lighter breeds. This show their superiority over the lighter breeds. This
breed of ducks are very fast growers, and if properl fed and cared for, will, at the age of ten weeks, weigh from five to seven pounds each, and it does not tak much more feed to raise and fatten them tha does the Runners which weigh,
and a half to three pounds each.
and a half to three pounds eaching ducks in Pekins have been the leading ducks in popu-
larity ever since they were introduced to America from China by way of England in the year 1875. Since then they have been introduced into this country the breed has been greatly improved, until now, breeding stock are being taken back to Japan and
China to improve the ducks there. China to improve the ducks there.
The fact that the Pekins are the only breed of ducks raised on the majority of the large duck farms in superior qualities when raised in large flocks. From the standpoint of eggs the Indian Runner ducks are, on the whole, undoubtedly superior to the other breeds, but for those who desire a generalPekin ducks every time.

## FARM BULLETIN.

Opinions and Opportunities.
May 3rd. This

I wanted very much to form some opinions for use in I wanted very much to form some opinions gave up in this column, but atter an earnest a to get a verbatim despair. It was impossible for Merdith-Duff Commisreport of the proceedings ing in investigating the Kyte
sion, which at this writing charges in Ottawa, so each morning Liberal paper Conservative paper and a leading Liberal paping and read the reports which they vave reports that flatly I found that these papers gave repors confusion the editors of these papers are personal friends whom I have known for years-men whose word worres take on any subject-except politics. Ttawa are also pondents who forwarded the news highly, and never personal friends whom 1 esteem highly, and hesitate to believe when they tarial subject. But it
or some similar non-controversial or some similar non-contre never do to jump to the conclusion that either group of correspondents and editors were lying. They were simply selecting from the proceedings such points and incidents as seemed to favor their party, and ender would be likely to please the multitude of readers who were looking to the unwholesome mess. As I pointed out some weeks ago the mess is unwholesome whether the charges are proven or not. If they are proven there has been disgusting greed and unfaithful-
ness to duty. On the other hand, if they are not ness to duty. On the other hand, if they and petty proven there has been disgusting suspicion, ant so far
politics. About the only illuminating point so politics. About the only illuminating port so the
has been the defection of Dr. Michael Clark from the has been the defection ore other hand the investigation was largely forced by the defection of the Hon. Andrew Broder from the Conservative ranks. So, as the old saying goes-," you pays your money and you takes your choice." Perhaps if you are wise you will not choose either. This is a time for the "anadian citize to adopt President waison sporicht be a good idea to put a rod in pickle for some unknown person or party who must
the truth.

Talking about affairs in Ottawa reminds me that a lew days ago we cleaned out the cement cellar which been brought against it by everyone who had gone after apples or potatoes for the past month. At last I headed an investigating committee and started to chiean things ource of offence. There was part of a barre of sauerkraut that smelled like a Hun gas attack After we had stopped using the stuff sometime in the winter it either saured too much or krauted tod much, I don't know which, but we almost had to put clothes pins on our noses while carrying out that barrel. When we reached fresh ain we that seeme gourkraut buried or expect a visit from the officer for public health who would not hesitate to have us committed for maintaining a public nuisance. After getting rid of the saurkraut a few spoiled squashes
and some rotten apples and potatoes seemed like the "perfumes of Araby" by comparison. Of course, know that the cellar should not have been allowe
to get into such a state, but one can't do everything to get into such a state, but one can't do everything,
and when the habit of procrastination has been formed in youth it is hard to oversome. But in spite of the
trouble we found in the cellar we got one surprise
Half a barrel of Pewaukee apples that the children Half a berrel of Pewaukee apples that the children
could not be induced to touch while the Kings and
when put in the cellar last fall. I always understood that the chief charge against Peewaukees has been fall apples and must be used before Christmas but we are at present enjoying sound apples of this variety in the first weeks of May. What is the answer

THE noticed an increasing demand for good reliable cluck
ers. This year the scarcity has almost reached the poin this year the scarcity has almost reached may point of a public calamity. The hens we have may
show symptoms of sitting, but before the eggs given show symptoms of sitting, ", "go off the cluck," At the present time everybody who meets anybody else in the country asks, "Do, you know where can get some clucking hens?" But alas, nobody lucking Brahmas and Cochin-Chinas of my earlies recollection seem to have disappeared from the land As I remember them our great difficulty was to get
them to lay enough eggs to hatch on, and kind-hearted them to lay enough eggs to hatch at the store to make people used to buy china eggs at the store to maid in favor of incubators and non-sitting hens, I wouldn' be afraid to wager that if anyone were to advertise a breed of permanent cluckers there would be a great demand from March until May next spring. I kno where sc

An Ambulance from Potatoes Grown by Children.
In the spring of 1915 the Ontario Department of Agriculture offered to supply children taking part in the Rural School Fairs with sufficient potatoes to plant a plot 1 by 2 rods if they would agree to dise pastrotic cause. Applications were reccived throukh pationic ciaus. Appications were the children showed great interest in the wark Thity-four counties taking part in the work reported sales from over 2,500 to date si.843.18.
Before deciding upon the disposition of the money received from the children, the officers of the Canadian Red Cross Society were consulted, with the result that a Mctaughin Motor mource Cross by the and Iormally presented to the red
Hon. Jas.S. Duff will be interested to to krow that Col. Noel Marshali, will be interested to know that anser of Agriculure) expressed his gratitude to the children, and added "The knowledge of each of these children that they have contributed to the comfort of the brave elelow who are serving us at the fro
repay them for their efforts.
If I were going into the hen business at the present time I would work along new lines. The country is at present suffering a grave crisis in the hen industry,
and to the alert man a crisis is always an opportunity As other occupations made it impossible for me to go in for hens I want to "pass along a quiet tip to some ambitious reader of The Farmer's Advocate. who will carefully develop a strain of "clucking" hens. People who raise hens on a small scale ar ago, but the hens they have are all of the non-sitting egg-machine types; and for some springs past 1 have lucking Brahmas and Cochin-Ceared from tede hem enjoy life. In spite of all that may be sain ee afraid to wager that if anyone were to ad a grea where scores of them could be sold at this present
(

## Toronto, Montreal, Buffalo and Other Leading Markets.

| Tor |  |  |  |
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For sows $\$ 2.50$ and stags $\$ 4.00$ less han prices paid for selects.

On Thursday the Hon. Adam Beck assisted by Robert Graham, comm Cattle
purchasing horses at the City CovernMarket, for the
ment. They bought 31 on that day suitable for artillery $\begin{aligned} & \text { purposes, } \text {, at goon } \\ & \text { prices ranging from } \$ 190 \text { to } \$ 20 \text { and }\end{aligned}$ City over. They purpose being at the City
Yards on Tuesday and Thursday of each week.

Country Produce
Butter--Butter declined again the whotesales durng
cry, fresh made lb, squares, 31c. to 34 c ; 29c. to 30 c .
Eggs.- New-laid eggs remained sta-
tionary, and were quoted at 24 c . to 25 c . Cheese.- 19 c . to $19 \mathrm{y} / 2 \mathrm{c}$. per lb . 18 c .
Poultry.-Live-weight: Chickens
 Hides and
Lamb skins and pelts, $\$ 1.20$ to $\$ 1.25$;
sheep sking,


## THE FARMER'S ADVOCATE.

## THE ROYAL BANK OF CANADA



Savings Department at all Branches
 18c., horse hair, per lb. 37 c . to 40 c,
horse hides, No. $1, \$ 4$ to $\$ 5$; horse hides, hose 2 , 33 to st tallow, No. $1,64 \mathrm{sc}$, wool rejections.
unwashed, 28c.
to
32c.

Wholesale Seeds.
Red clover, No. 1, cwt., $\$ 25.75$ to
$\$ 27.50 ;$ red clover, No. 2 , cwt., $\$ 25$ to
$\$ 25.50$; alsike, No. 1, cwt., $\$ 19.50$ to $\$ 22$ a alsike, No. 2, cwt., $\$ 17.50$ to $\$ 18$ alfaifa, No. 1, cwt.. $\$ 24.50$ to $\$ 27$; alfalfa,
No. 1, cwt., \$12 to \$14; timethy, No. 2, cwt

## Breadstuffs

$\$ 1.03$ to \$1.05: No, 2 , commercial $\$ 1.01$ to 81.03 ; No. 3 commercial, 98c. to $\$ 1.00$ fed wheat, 86c. to 88c. Manitoba (Track, Bay
$\$ 1.27$ Ports)-No. No. 2 . ${ }^{1}$ northern
northern, $\$ 1.2434$; No. northern, $81.201 / 4$
Oats.-Ontario, No. 3 white, $45 \frac{1}{2} \mathrm{c}$. to Manitoba oats (Track, Bay Ports), No No. 1 feed, , 5 chc. . No. 1 feed, 51 .. Peas.-According to freights outside,
No. 2, $\$ 1.60$; according to sample, $\$ 1.20$ o $\$ 1.50$. Barley-According to freights outside Buckwheat.-According to freights Outside, nominal, 69c. to 70 c.
Rye.-According to freights outside, No. 1 commercial, 91 cc . to 92 c .; ; rejected
according to sample, 87 c . to 89 c .
 Toronto), feed, nominal, 75 c . to 77 c , jute bags, $\$ 6.50$; second patents, in jute
bags,
$\$ 6 ; \%$ strong bakers', in
jute bags, ${ }^{\$ 6 ;}$, strong bakers', in jute
bags,
$\$ 5.80$,
Ontario, winter according to sample, $\$ 4.30$ to $\$ 4.40$, track,
Toronto; $\$ 4.35$ to $\$ 4.45$, bulk, seaboard. Hay and Millfeed.
Hay.-No. 1, per ton, best grade, $\$ 20$
o $\$ 22 ;$ No. 2, per ton, low grade, $\$ 15$ Straw-Car lots, per ton, $\$ 6.50$ to $\$ 7$,
rack, Toronto Bran-- -Per ton, $\$ 24$.
Shorts:-Per ton, $\$ 26$. Middlings.-Per, ton, $\$ 26$ to $\$ 27$.
Giood Feed Flour.-Per bag, $\$ 1.60$ to

## Wholesale Fruits and Vegetables.

 Canadian asparagus made its firstappearance, for this season this week, and
sold at from $\$ 1,50$ to $\$ 2$ per dozen bunches. The California variety bringing $\$ 4.50$ to


Pineapples are beginning to come in
freely, the Porto Ricos selling at $\$ 3.50$ per case.
Strawberries are not of extra good
quality selling at quality selling at 18 c . to 20 c . per hox

## Montreal.

Supplies of cattle on the local market continue limited and prices are gradually
creeping higher. The quality of the creeping higher. The quality of the
stock offered is seldom choicest, but best
steers steers and heifers brought as high as
9 c. per lb. Even the lower grades brought $63, \mathrm{cc}$. while medium grades
ranged all the way from $71 / 2 \mathrm{c}$ to $81 / \mathrm{c}$. ranged all the way from $71 / \mathrm{c}$. to $81 / \mathrm{c}$,
per Ib. Butchers' cows sold from $61 / 4 \mathrm{c}$.
to 8 c . to 8 c . and bulls from 7 c . to $81 / \mathrm{c}$ c. ac-
cording to quality. There were liberal corraing to quality. There were liberal
offerings of calves and these were taken by local butchers and for export to
American markets. $\quad$ Choicest animals sold at $7 \mathrm{~J} / \mathrm{c}$ c. to 8 cc . and lowert grades at 5c. to $61 / 2 \mathrm{c}$. per lb . Spring lambs were
traded in more freely and the price ranged traded in more freely and the price ranged
from $\$ 5$ to $\$ 8$ each, according to size from $\$ 5$ to $\$ 8$ each, according to size
and quality. Yearlings continued in good
demand and sold freely demand and sold freely around $113 / 4 \mathrm{c}$,
to 12 c . per Ib ., while sheep were firm at $71 / 2$ to $81 / 1 /$ c. Hogs were even higher than
a week ago and sold at 12 c. to $121 / 4 \mathrm{c}$. a week ago and sold
per Ib,, weighed off cars.
Horses.- There has been no demand whatever for horses recently, this being
attributed in part to the strike among the drivers of some of the larger cartage companies. Occasional sales were made for shipment to the country. Prices were generally steady, as follows: heavy
draft horses, weighing 1,500 to 1,700 lbs. draft horses, weighing 1,500 to 1,700 lbs.,
$\$ 200$ to $\$ 250$ each; light draft horses weighing 1,400 to $1,500 \mathrm{lbs}$., $\$ 150$ to $\$ 200$ each; small horses, $\$ 100$ to $\$ 12$ each, and culs, $\$$ and and ands were quoted at $\$ 200$ to $\$ 250$ each.
Dressed Hogs.-The supply of dressed hogs continued on the light side and shippers were able to demand advancing prices. The price last week for abattoir
dressed, fresh-killed stock, was $16 \% / 4$ O $16 \mathrm{y} / \mathrm{c}$. per lb .
Poultry.- Dealers quoted 24 c . to 27 c . per lb. for turkeys; 22 c . to 24 c . for
chickens; 17 c . to 19 c . for geese and fowl, chickens; 17c. to 19 c . for geese and fowl, and 19c. to 20 C. for ducks. large and the quality was fair. Price of 90 lbs . ex-track, in car loads, and 15 c to 20 c. more in a smaller way.
Honey and Maple Syrup.-Demand ior new syrup was good and prices 85 c . tins and for $\$ 125$ for 13 lb tins with 20 c lins, and $\$ 1.25$ or 13 ib. tins, with 20c from 12 c . to 14 c . Honey was fractionally firmer at 15 c . for white clover comb, and 12 c . to 13 c . for extracted. Brown
comb was about 12 c . per lb. and ex comb was about 12 c . per lb . and ex-
tracted 10 c . Buckwheat honey was 9 c . Eggs. - Packers are putting away all he stock they can get their hands on unlikely to be any further lowering of
price for some time to come. Select fresh price for some time to come. Select fres
laid were 27c. and straight gathered 25c., with NO . 1 and No. L, ranging from
24 c . to 23 c . Consumption is large. Butter.-Supplies are constantly increasing and the quality of the fresh creamery was $291 / 2 \mathrm{c}$. to 30 c , with a discount of $1 / 2$ c. for fine. Held creamery
could be had at 26 c . to $261 / 2$ c. for the finest and dairy butter was 22 c . to 23 C .
Cheese. - The tone of the market was slightly firmer and finest Western was goods being about $1 / 1 \mathrm{c}$. under this figure.
to $183,4.4$. The market for wheat has been showing quite a strong tone but
later experienced somewhat of a decline. Dealers quoted No. 1 commercial white $\$ 1.10$ per bushel. Oats were firm. No
$\qquad$
No. 2 white oats sold at 52 c. ; ; No. 3
at 51 c . and No. 4 , at 50 c . per bushel,
ex-store. The market was very steady
Flour-- Twe
and there was very little going on. Manitoba first patents spring wheat flour was
$\$ 6.60$ per barrel, in tags; seconds, 86.10 , and strong bakers $\$ 5.90$ ontario winte
wheat patents were 80 and straight rollers $\$ .30$ to $\$ .40$ per bare.
the latter being $\$ 2.50$ per bag.
Hay.-Baled hay was unchanged in
price at $\$ 21.50$ to $\$ 22$ for car lots of No. $\$ 20.50$ for No $\$ 21$ for $\$ 19$ o. 2 extra good; and $\$ 18$ for clover mixed.
about steady at $\$ 10$ to $\$ 15$ per 100 lbs . for timothy; $\$ 22$ to $\$ 27$ for red clover and 817 to $\$ 24$ for alsike, Montreal.
Hides -Calf
Hides.- alf skins advanced 2c. per Beef hides, steady, at 21 c c., 20 c . and 19 c . or No's. 1,2 and 3 respectively. Sheep $\$ 2.50$ to $\$ 3.50$ each. Rough tallow was $11 / 2 \mathrm{c}$. to $21 / 2 \mathrm{c}$. per lb ., and rendered

## Buffalo.

Cattle--Supply of cattle at Buffalo ping steers, of which there were around orty cars, selling a dime to fifteen cents
 steady prices, some fairish and medium from $\$ 8$ to butchering steers, runnin, cents, and in some cases as much as quarter lower. Canada supplied the best load of yearlings ever offered from the
Dominion. They were blacks, in cluding some rather weighty heifers and sold at $\$ 9.10$, considered a goor price. They were bought by a local packer. Canadians could do no better than to get more extensively into the finishing of baby beeves." They are
always saleable at a good price, and the demand appears broader than for year into consideration. Of late years young cattle and especially yearlings have become very popular, for the reason that the cuts are family size, handy selling them. Native yearlings the past week sold from $\$ 9.40$ to $\$ 9.50$, being Best weighty steers sold at $\$ 9.60$, and the eastern killers were able to
locate very few steers
under $\$ 9,15$ Mixed lots few steers under steers in, sold at about steady prices and bulls brought firm prices. Stocker and more are ignted efjecially the good, roan kinds, such as Canada raises These toppy feeders are selling at $\$ 8$ and real fancy kinds might bring more. Milchers and springers are about like
they have been for the past two or they have been for no ene past of the
three weeks, but not enough real good kinds are coming. Receipts figured 4,700 head last week, as agains
3,800 for the corresponding week last year Quotations:
Shipping Steers.-Choice to prime
 $\$ 8.75$ to $\$ 9$, plain, $\$ 8$ to $\$ 8.25$; best Canadians, $\$ 8.75$ to $\$ 9.25$; fair to good, $\$ 8.25$ to $\$ 8$.
plain, 8.75 to $\$ 8.10$.
88.75 Butcring Steers. Choice heavy
 good, $\$ 8$ to $\$ 8.75$; light, thin, $\$ 7.50$ to yearlings, common to good, 88.25 - to 88.65.
heifers, $\$ 7.50$ to $\$ 8.50$; best whandy butcher heifers, $\$ 7.75$ to $\$ 8.25$; common to good, $\$ 6.50$ to $\$ 7.50$; best heary, fan cows, $\$ 6$ to $\$ 6.50$; medium to fair
$\$ 5$ to $\$ 5.75 ;$ cutters, $\$ 4.25$ to $\$ 4.75$ canners, $\$ 3.25$
Bulls.
Best
to
Buls.- Best heavy, $\$ 7.25$ to 87.75 Stockers and' Feeders.-Best feeders $\$ 7.25$ to $\$ 7.75$; common to good, $\$ 6.50$
to $\$ 6.75$; best stockers, $\$ 6.50$ to $\$ 6.75$, common to good, $\$ 5.75$ to $\$ 6.25$.
Milchers and
Springers.-CGood to best, in small lots, $\$ 75$ to $\$ 90 ;$ in car
loads, $\$ 60$ to $\$ 70$ medium to fair in small 1 lots, $\$ 45$ to $\$ 55$; in carloads,
$\$ 45$ to $\$ 50$; common, $\$ 30$ to $\$ 10$. Hogs. - Last week started with lower reacted, and before the week was out
Monday's and Tuesday's decline was fully regained. On the opening day
of the week the bulk sold at $\$ 10.15$, few $\$ 10.20$ and $\$ 10.25$, and pigs prices dropped to $\$ 1010$ and $\$ 10.15$. cents; Thursday's market was strong
to five higher, and Friday sellers wit-
of the sales being made at $\$ 10.25$, with a few selling at $\$ 10.30$, and pigo reached up to $\$ 9.25$ and $\$ 9.35$. Roughs, Receipts last week were 24,400 head, Receipts last week were
being against 28,072 head for the week
previous, and 29,100 head for the same previous, and 29,100 head for the same week a year ago.
Sheep and Lambs-Market got a good start last week and closed weake,
Monday top lambs sold at $\$ 10.25$, with bulk went at $\$ 10.40$ Wednesday one deck reached $\$ 10.50$. Tuesday the tops sold from $\$ 10.25$ to $\$ 10.50$, and Frida buyers got the most desirable ones a $\$ 10.25$ and $\$ 10.35$. Weighty lambs were again neglected, kinds weighing around 95 pounds and hetter ranging
from $\$ 8.50$ to $\$ 9$, and they were at that. Cull lambs sold from $\$ 9$ down. Sheep were strong all week,
wethers selling up to $\$ 8.25$, with wethers selling up to $\$ 8.25$, with ewe $\$ 7.50$ down. Rectipts last week were 21,800 as against 22,531 head for the week-berore, and 10,000 head for the same week a year ago.
Calves.-Market last with top veals selling generally at $\$ 0.50$. Tuesday's and Wednesday's trade was steady, Thursday tops brought up to \$10.00, and Friday, under a red-hot demand, best veals were jumped to
$\$ 11$. Culls the fore part sold mostly from $\$ 8$ down, and before
dore the week was out best desirable culls reached up to 89.50 . Receipts last week were 4,625 head, as compared
with 4,495 head for the week previous, with $4,495 \mathrm{head}$ for the week previous,
and 4,250 head for the same week a year

## Chicago.

Cattle.-Beeves. $\mathbf{8 7 . 9 0}$ to $\$ 9.95$; stock ers and feeders, $\$ 5.75$ to 88.50 ; cow and heifers, $\$ 4.25$ to $\$ 9.40$; calves, $\$ 6.25$ to 89.50 .
${ }^{\text {Hogegs.-Light, }} 89.35$ to 89.90 ; mixed $\$ 9.50$ to $\$ 9.90$; heavy, 89.40 to 89.90 ;
rough, $\$ 9.40$ to $\$ 9.55$; pigs, $\$ 7.25$ to $\$ 9$ Sheep.-Native, $\$ 6.90$ to $\$ 9.30$; lambs, native, $\$ 7.75$ to $\$ 11.85$ :

## Gossip.

Craigielen-Wood Stock Farm has for sale about forty head of Berkshire swine ackes, of both sexes, from imported calf three weeks old. For full particular write R. I. Dawson, Science Hill, Ont.

## Shorthorns and Tamworths.

Attention is directed to the advertisement in this issue of Tamworths and Currie, Morriston, Ont. In the Tamworth herd there are 150 from which anyone should be able to make a suitble choice. For sale from the Short and herd are three choice bull calves, heifers. If intereep-milking cows and of these breeds look up the advertise-
Cur

Real Dual-P
S. A. Moore, the well-known breeder of dual-purpose Shorthorns, Caledonia Ont., recently sold to the Wm. Weld Company, for Weldwood Farm, the This calf is out of the heavy milking cow Burnfoot Lady with an official record of 0,689 lbs. of milk in one year, testing 3.88 per cent. fat. His sire is the two-year-ord son of Dairymaia, the cow hich holds the Canadian record for with $13,535 \mathrm{lbs}$. of milk in one year, testing 3.99 per cent. fat. Dairymaid is a good individual herself but her calf
Burnfoot Chieftain, sire of Dominator, a wonder. He is straight, smooth and thick and with his conformation backed by such official records he is
one of the best sires in Canada. Dominator has milk behind him on both sides of his pedigree and is a big, sappy calf. He would be hard to duplicate in
Canada and is to be developed for herd header at Weldwood to take the place of College Duke the present herd sire which heifers are now coming to breeding age. ir. Moore may well feel proud of his remarkable degree and the Wm. Weld Company feel sure that they have the
calf which will do a great deal of good at Weldwood.


The Dead Poet
WRITTEN IN MEMORY OF RUPERT BROOKE. When I grow old, they'll come to me and
say:
Did you then know him in that distant
day,
Did you speak with him, touch his hand,
The proud eyes' fire, soft voice, and light
lips' curve?
And I shall answer: This man was my
Call to my memory, add, improve,
And comnt up all the meetings that we
And note his good, and touch upon his
When I grow older and more garmbous,
I said to him. . he answered unto me
He dined with me one nikht in Trinity. Ah,
I supped with him in King's. . A,
pitiful
The twisted memories of an ancient fool
And sweet the silence of a gonng man
dead!
Now far in Lemmes sherp that moden
Unchansend, surven, former swans and

Among the Books
Letters from America.

Gave, once, her flowers to love, her
Wair, Whed by the rivers, hlest by suns
"And think, this heart, all evil shed away,
A pulse in the ceternal mind, no less, of a tourist, hurrying through, recording sees deeply, whether to scathe or to
sympathize, and werywhere there is
the touch of the poet, ewen, indeed, at It is interesting to "sce oorsels as
ithers see us," through the spectacles of
this haghter-lowing young IEnglishman.
acaredy has he set toot "pon our Thestern
taking
How
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(2)
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and com
On two
he becon
mention
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of sum
Great I
world the

Hope's Quilet Hour.

Is the Door Open? Behold, I stand at the door, and
knock: if any man toar my yoice, and
 - Rev. iii: 20 .
George MacDonald has said: "The
Spirot of liod lies all about the spirit
of man like a mighty sea, ready to of man like a mighty sea, ready to
rush in at the smallest chink in the walls,
that shut Him out from His own." that shut Him out from His own."
Thimk of the way God respects the
personality of cach of us. Althongh personality of each of us. Althongh
we are mate ly tlime there is no attempt
to the stands outsile and knocks, gently until
we open the door to adnuit Him.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$fact that in 'ioll's sight they are wretched,
$\qquad$
$\qquad$
$\qquad$
$\qquad$refined, guld, white robes of slining
purit, und medicine for the earth-
dulled visiom. He is evplainingdulled Visul. He is explaining that
stern relukecs and painful chasteningonly prowe His love He will not permit
one of llis children the stray uncheckedfrom, the with way. The stern words of
avful warnine melt into tenderest plead-ang. It in this self s-satisfied congregationmessage of "uir text: "Behold, 1 standof king eulfuing Himelf as the Guest

The Great Military Conference a
guest and to sit beside Him on the I prayel to (iod, and swift at His com
throne (iii): 21. .) It it not He who has
shut the dond shut the door that forms the barrier The crond became a weapon in my hand
between them. If you look at Holman It slaw my racing enemy, and then
Hent Hunt's famous picture "The Light of Berame a cross upen my back again.
the World-" you will see no hande ond the outsile of the door handle on 1 reachel a desert. Oer the burning Coc outside of the door. Admicsion
comes from within, and the Renal ( $\mathrm{c}, \mathrm{m}$ will not force His way into a heatt. A missionary, talking with some is ank allatt, and thought my days were

things of God are not vitally important (in the opinion of their parents) a compared with earthly and temporal house is irse the the Read of the any meal hourt He is the unse 1 istener to every or The messages sent to the seven churches of Asta show an imtimate knowledge of of the churches. Even in sardis thonest it haid sill tim nuo ormu - hlerere were a few who tall not
$\qquad$
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 mily one proson we outht $t$ ) jultes. st. P. Piul


 man's standpoint the Laodicean church wass rich, and increased with goods and had need of mothing - but christ's look a crowded church and big collections to not alwavs prove spiritual prosperity and a church apparently poor may be
$\qquad$
 openeel the door to Christ tie is the fien "ecellur"e even eatious nand drinking ate dane to llye ylary ,of tion. Dur Loord Grnenter, and that work was the village s the years of preaching and healing ant rolowect
 citiver outside yourt door or abifiting Thook iop ant He is iteret
$\qquad$


 Miis
MAIDR
CNADA Watch the extra sparkle in the eyes of children-the clapping of the hands and the delighted laughter when Maple Buds are served at the party. Let them eat plenty-they are not harmful in any way; in fact they contain the finest and most expensive cocoa beans, rich, creamy milk, and the best selected sugar blended skilfully

Grown-ups relish them too-you know that yourself.

## COWAN'S MAPLE BUDS <br> A dainty Solid Chocolate




## 



## Fashions Dept.

 How to Order Patterns.Order by number, giving age or
measurement as required, and allowing
at least ten days to receive pattern.
Also state in which issue pattern ap-
peared. Price fifteen cents PER PAT-
TERN. If two numbers appear for
the one suit, one for coat, the other
for skirt, thirty cents must be sent.
Address Fashion Department, "The
Farmer's Advocate and Home Maga-
zine," London, Ont. Be sure to sign
your name when ordering patterns.
Many forget to do this.
When ordering, please use this form:Send the following pattern to:

## Name

## Post Offic Country

## Province.

Number of Pattern
Age (if child or misses' pattern)
Measurement-Waist..........Bust..............
Date of issue in which pattern ap Date of
Owing to the fact that expenses on fashion cuts have been the price of patterns to 15 cents per number.


## Where Sanatogen is Made

View of the Sanatogen Works in Cornwall, England
T $N$ the mild sunshine of Penzance, standing four-square to the Atlantic breezes, there is an ideal factory which manufactures the whole supply of Sanatogen for Great Britain and the British possessions-a British factory, employing only British labor and materials.
Strict scientific control a a d
scrupulous cleanliness mark every
stage of the emanufacture; the pro-
thate
duct is entirely untouched by hand,
and las to pass scevere laboratory
tests before being placed on the it market.
The casein which forms the basis
of Sanatogen is highly refined and absolutely pure and sterile; it is derived from the richest milk in
Cornwall This body - building Cornwall. is organically united with a certain sort the phosphors
he human nerve cells - by a pecial process used exc
the Sanatogen Company.
The resultant compound owes s unique nourishing and invigor ating properties entirely to this the same composition or effects
There are not, and there never have been, any but British workmen in this factory sirce to was established The Sanatoge
The Sanatogen Company, 12 guarantee the foregoing facts.

Craigielea Wood Stock Farm 84616 and a buil ca
R. I. DAWSON.


## The Windrow.

In an editorial in The Journal of the American Medical Association, it is pointed out that the effect of alcohol upon the human body fishting principle with which nature has supplied the blood, so rendering it much less fitted to fight disease than when alcohol in an orm is not used.
In German East Africa there are "lakes" ormed of solid soda, almost chemically pure. One of these is about 25 miles pure. in area, and soundings of the feet or more.
Earl Curzon, Lord Privy Seal, stated in the British House of Lords recently that the Government is now admimist ing the whole British mercantile marine of amounting to half the gross the world. 43 per cent. has been requisitioned for naval and military purposes, 14 per cent. is occupied in carrying foodstuffs and raw material in behal of the Government and its allies, and the remaining 43 per cent. is operated osBritish ship owners under sait, "are gulations. "Our ships, hal, grain, food, carrying supplies ond the raw material of munitions, on an unprecedented scale. But for these supplies to France, Russia and Italy they would be dute pendent upon their own totally inadequare resources. . Five hundred merch and vessels of all sorts are being built, and the number of small craft more than mercantile marine has
2500 ." He also announced that 450
40 enemy ships have been detained or captured since the beginning of the war

Country Living in the Next
In an article recently published in The Independent, Prof. L. H. Bailey points out that one of the notable ime provements in the next generation "wilu

## Twice a Day

## for Half the Year

Someone has to attend to the furnace
Most people look on it as an Most people look on it as an irritating,
dusty job. It need not be. It is not, if you have a Sunshine Furnace.
In shaking down the Sunshine, the fine ashes are drawn up the chimney; there
is never that fine sprinkling of dust that is never that fine sprinkling of dust that
lights on everything in the basement, and even floats up through the house. The
Sunshine is as clean as a piece of furniture Sunshine is as clean as a piece of furniture
The extra sturdy grates crush with ease the hardest clinkers. A slight rocking cleans down the ashes. The ashes fall as the grates are shaken, for the sides of the fire-pot are straight. This saves bother-
and heat; because if ashes bank up around and heat; because if ashes bank up around the fire-pot they stop the radiation o pan. There is no shovelling or spilling

## $\mathbf{M}^{c}$ Clary's Sunshine

 FirmaceWould you like to have definite informa tion about the cost of installing a sum

time" in order that he may have more time to use intellectually. In regard to
local betterment he says: "Another local betterment he says: "Another
generation should find us with few generation should find us with few advertising has already mostly gone and the remainder will go; a new building construction will develop, and it is to be prove and that the present hideous milk-station and creamery and similar constructions will perish: science and tention; mechanical and physical aids to business will be extended. Inside the home, the developing of laborsaving devices and machines will necessarily be marked and we are to expect therein as has taken place in the past generation in the fields and barns. The woman of the farm, as well as the man, is to organize and economize her time; this is her most essential emancipation.

Europe's Greatest After-War Problem Woman Versus Man.
(by eugene brieux.)
What will happen to Europe's women
after the war? after the war? 1 am -afraid this is the
most important question we will have most important question we will have to face once peace is declared. I am
afraid we shall see a new sex. The war, afraid we shall see a new sex. The war, and women, is taking on such a violent character that this seems inevitable.
Before the war my apprehensions in this respect were sufficiently acute and
were expressed in my play 'La Femme were expressed in my play 'La Femme Seule.
The
office has already found a female counter or petitor facing him and he has complained sometimes without gallantry, generosity or justice. But what will happen after the war?
Once de
demobilized, and having received their well-deserved homage, the men will want to go back to the work the
left when they were called to the colore But often they will find their jobs occupied by women, who were called in a moment of necessity and will not quit by per-
suasion. The women will say: ${ }^{\text {I }}$ am suasion. The women will say: I am used now to earning my hiving. Io have was incapable of doing. I am used to salaried independence; I am here to stay-get out.
The men will reply. "The war is over.
I have suffered for the defence of my I have suffered for the defence of my Fatherland, my liberty and my home. back my job.'
Both will be right and when both sides in a dispute are right the struggle is bound to become most bitter. It would be wise to discuss this problem right now so that the minds of the people may be prepared to accept the inevicable and so the evil. It is undeniable that woman' cause has made another giant stride in this war. Our French women have been admirable. Enemies of their cause will say that there are exceptions. An infinitely small number of women, in deed, have ceased work owing to the with more generosity than discernment and in the dramshop some few have learned to behave like men.
But apart from these few exceptions, French women have behaved admirably in France's hour of need; in fact, women have expected of them. The French woman's devotion to the soil and to her children need not surprise anyone What does astonish us is that she has shown herself so practical, careful, well informed and wily in business, persevering fully as prudent and courageous as the fully
Now that the women have proved thei ability to conduct wisely their husbands affairs in their absence, it will not do to scoff and jeer whell they demand that public affairs through municipal elections. When told that only tarpayers ean vons the woman will reply that she has paid her tax in money and nature and that she has held the handles of the plough as well as the purse strings.
impost of blood, she will hos paid the impost of blood, she will point to the
empty chair where her son, flesh of her empty chair where her son, lesh of
flesh, used to sit. The comic sketch writers must not
joke of these things. Most of the arguments against women's rights are bank

Women have displayed their abilities both in town and in the country. We see them as cafe waiters and street-car conductors. We see them doing the heavy for their 'weak organism,
This weak organism has resisted the strain of the iron works. These frail hands have polished steel helmets, loaded shells and verified the keying up of the gun. I see now, as I write, two launloaded with linen. One of them pulling at the shafts and the other is puling pushing. Both are scarlet with their exertion, their disordered hair waving in the wind. I admire them as symbols of feminine efficiency.
Before the war only a small number of women refused to believe that men were us men admit that they have proved that we need them more than they need us, Near Morgantown, West Virginia,
an old coal-mine has been made into a mushroom farm and is proving ideal for the purpose. The mushrooms are proving almost as profitable as the coa * *

During the recent disturbances in Ireland, a woman, the Countess MarkieFeiner, played the role of the Sinn active part in the fighting, Wearing the "republican" uniform, she made spirited speeches and urged the rebels on to fight. The countess is the daughter of one of the Sligo Unionists and the wife of a Polish painter. Sil She has been
known for years as a militant socialist.

Kipling Story.
A good Kipling, story is told in, . A hurston Hopkins, Rudyard Kipling lived at Rottingdean he was annoyed by the driver of the local bus, who often pointed his whip when he encountered voice to his passengers, "Here atentorian Mr. Kipling, the soldier poet." Kipling suffered this in silence, but things came to a crisis when the Jehu came into collision with his favourite tree, doing much damage to letter of complaint the whe ower Inn. The landlord was advised to take no notice, and was offered to shillings for the letter. Both cash and advice were accepted. A second and stronger letter followed, and the landiord carried the autograph to for it. The next day Kipling pound briskly and very wrathful. "Why don" I answer your letter, sir?" said th landlord. Why, I was hoping you'd send me a fresh one every day. They
pay a deal better than 'bus driving."

## The Story of Ralph Blakelock.

One of the saddest life-histories in the annals of art, is that of Ralph Blake lock, how recognized as the foremost a man whose pictures United States the highest prices, while he himself confined in an insane asylum at Middle town, and his family is living on the verge of want. Years ago Blakelock unable to get prices for his pictures, and with a wife and ten children to support became discouraged and went out o canvases that he had painted, exploited by the dealers, and appreciated at last by the public becanse of their marvellous beauty went steadily up on price until at last those for which the artist had been paid from twelve to thirty When the finest of all, "The Brook by Moonlight," went for twenty thousand dollars, people began to enquire abou its creator, and when an exhibit o Blakelock pictures was held, the "mad painter" was brought out of the asylum beautiful things that he created, his faculties began to collect themselves The story is thus told by the New Yorl Evening Post.

The attendant opened the door Blakelock stood still. Directly in front of him, in the room beyond, was the now famous "Moonlight," owned by for thisero Museum of Art, and len which fronted this frail painter, this


Weight for weight, dumplings are over five times as nutritious as beef. The gluten in the flour

How gratefully welcome are stew-days when FIVE ROSES makes the dumplings! Light and porous as the crumb of well-risen bread, airy fairy bits of toothsome nutrition.
Not for dumplings and puddings alone; but for bread, pies, biscuits, roll and pastries, no other flour brings you that constant satisfaction so coveted by ambitious housewives. It is so well liked that almost a million mothers will use no lesser flour than FIVE ROSES for all their baking.
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lake of the woods milling company, limited, montreal.



the side "all. He went to "The but holding in its canvas all of Blake lock's loves the sharp twisting tree limbs against a twilight sky. Some where from the depths of that pictur
there came a light, and it spread ovo there came a face. He began at once to the painter about it, how and where he painted it; he pointed to the tracery in the trees, and called Watrous's attention to
to be the link which the perion of er-
ceptional culm upon which he his
lately enterei needed for fulness. Ilis menory hecame imordinately elcis. He went from one to the other of his
paintings, saying: "Now, Harry, you remember about this."And, "Doctor, you know I only got thirty dollars for this, telling who bought it and how the offer was out of bounds too low.

$\qquad$ "Yes. 1 think that trunk is just the :if wre up, herce turaning at Middle townl whether or not after all that
trunk would lear the lranches.
But is all right." " Now those who had hovered around
hearing his first words and watching the iny of the home-coming, took places n the rear. Left to himself, he strolled around, howing to an attendant and ex-
"Ruby Wine," which was hung in
"I painted that for Mr. Herter, before he went to Paris," he said. "He died over there, and never saw old See how ancient it looks, as iffsome done
fellow a thousand years old had don fellow a thousand years old had on a
it. But that is because it is done onat it. But that is because $\$ 25$ for that wood-panel. And as he mentioned this figure, which would not pay insurance on the painting's value to-day, he had no sadness in his voice, no deep hught at the injustice done. Rather circumstance in the life of an artist.

## e'Silver Gloss"

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handsome colors, free. Book in
Addrese handsome colors, free. Addrese
Wm. Wrigley J. Co.. Ltd. Wrigley
Building, Toronto, Ont.
"Chow if after every meap"

The Ingle Nook.






TTissue-Building Foods. A certain amount of wearing-out of the tissues of the body goes on at all times, but more particularly when heavy work
has to be done; hence during the long has to be done; hence during the long summer, on a farm, care should be taken to see that foods that build ap the worn-out tissues are supplied cries out for these by endowing men working in the fields with a "hearty appetite". It is not enough to supply plenty of food,-the kind of the food must be considered.
Pre-eminently among the foods that are tissue-builders (muscle-builders) are the proteid (nitrogenous) foods, including meat, eggs, cheese, milk, nuts, beans, bread, peas, lentils and the cereals. Many people lose their
liking for meat in hot weather, but when it is taken from the bill of fare it is absolutely essential to supply the
necessary material for building up the necessary material $\begin{aligned} & \text { nor thissue in some other form; eggs, }\end{aligned}$ cheese, etc., must) be substituted, and in sufficient quantity. For instance,
it would take three eggs to supply the it would take three eggs to supply the food-value of the amount of meat that
a hearty man would eat at a meal. Very a hearty man would eat at a meare eggs
few, however, care to eat three at once, therefore, other proteid
may be added to make up the difference. Beef.
Beef contains albumin (an important constituent of eggs) and other proteids,
mineral salts, and extractives which mineral salts, and extractires which
give the flavor. As alt albuminous
tods are most easily divestible when raw the reason for lightly cooked eggs may be seen.
Meat, to be wholesome, must be the flesh of a healthy, well-fed animal. The moretenn of the animal least moved in walking. For example the cuts near the backbone-the sirloin and porter-
house, and the tenderloin-are the finest In grain and best in flavor, while the
n hanks, flank, neck, etc., all with muscles hardened by movement, are coarser however, are as nutritious as the more ender, and only need long ind sfow
cooking, on the stove or in a fireless cooker, to make them palatahle.
To Broil Steak.-Steak is best broiled ver glowing hot coals, without flame smoke. (Grease the broiler, place
steak in it and hold it near the coals while counting ten slowly. Turn the
iler and hold the other side down
 eared, then hold it further back until
hirely browned. Serve very hot on a hot platter, with butter, perper and salt. Imost as palatable if done as follows: se a cast-iron pan. $\begin{gathered}\text { Rub it with } \\ \text { hat and let get very hot. } \\ \text { Put the meat }\end{gathered}$ and let get very hot. Put the meat
sear well on each side to keep in the
inces, then brown nicely.
The same principle must be observed The same principle must be observed
roasted meat: Sar the outside
in a very hot oven, then cook

Since then Blakelock has been supplied with plenty of material, and has been
made an Associate of the Academy That he grows every day more mentally alert may be judged from his reply to a request that he "paint another like
that?"- "paint another like that? No, no. I could not paint another like that
any more than I could shed tears over again. A picture is emotion, not inonly one."
of age, but it is now sixty-seven years of his one-time dream that something success of steak, or meat loaf. The the seasoning,--pepper, onion-juice, etc. Soup-stock may be made from scraps and trimmings, $\begin{gathered}\text { and fresh cracked } \\ \text { bones. Cover, then cook very slowly }\end{gathered}$ o extract all the juice and flavors. "boil" of water from a properly boiled
beef should not be of much use for soup, as in boiling beef the right way is to put it into madly boiling water and let boil for five minutes. This sears the outside and prevents the juices
from escaping from escaping. The pot is then drawn and slowly, at a much lower temperature

## Eggs and Milts.

Eggs are among the important tissuewhich they contain, the white albumin almost pure albumin and water. They also contain mineral salts. Soft-boiled albumin is much more digestible than hard-boiled, hence the advisability of having eggs lightly cooked. If it they should be boiled for half an hour a process which makes them mealy and much more digestible than when boiled for half that length of time. To boil eggs properly drop them into boiling the fire for ten minutes. In malking omelets, custards and scrambled eggs the heat should not be great enough to toughen the eggs into an indigestible mass.
Frenc
French Omelet. - Take 4 egss, of butter and salt and pepper to season. Beat the eggs about $\begin{aligned} & 12 \\ & 12 \\ & \text { strokes }\end{aligned}$ a fork, add the water and seasoning. Melt the butter in a hot pan, turn. in the eggs. Shake the pan lightly, and as fork or knife letting the part run underneath. When done, kut still creamy, fold over and serve at once on a hot platter. The omelet may
be sprinkled with chopped parsley be sprinkled with chopped parsley or grated cheese.
4 to 6 eggs, $1 / 6$ qup surt scalded milk, 4 to $6 \mathrm{eggs}, 1 / 2 \mathrm{cup}$ sugar,
salt, nutmeg to taste. Beat the then slightly, stir in the sugar and salt, then add the hot milk gradually. When the sugar has dissolved pour into 6 cups and grate a little nutmeg over the
top. Set the cups in a pan of hot and bake in a moderate oven until just. and e. Do not let the water in the pan boil or the custard will be spoiled. As custard contains both milk and eggs, it is very nutritious. It may be made
more attractive for serving by decoratmore atra de serving by decorat ig it with dots of jelly

The Scrap Bag.
Care of Granite Kettles, Etc. All granite dishes should be washed inside and out in soapy water. Ammonia,
Dutch Cleanser, Sapolio, or even ashes or salt will assist in removing spots Azaleas, Cyclamens, Calla Lilies. Azaleas and rubber plants should pe planted out in the garden for summer. Give the Azalea a rich soil,
and never let the roots dry out
By and never iet the roots dry out. gain next winter. Cyclamens and Calla lilies, both of which grow naturally in countries that become dry and hot in summer mond gradually and then turn the pory of their sides in some out of the way corner of the garden, and leave, with very little attention, until it is time to bring them
in, in the fall. Give just enough water to keep them from drying out com-

## TheBeaverCircle

## Our Senior Beavers.

 [For Beavers from Senior Third toJunior High School Form, inclusive.]

## Mrs. Cochran's Tom

BX Winifred colwell, brookville,
Junior shoved his hands in his pockets, dejected fashion, as he leaned against the lamp post. Jimmy had released him from the grocer's scarcely an hour before, and he was dreadfully tired. had yelled until his throat was sore and what good had come of it? A bold young man had snatched a paper from beneath Junior's arm, satisfied himself with the headlines, and walked away smoking a cigarette.
Nobody had treated Junior that it. In spite of the fact that he was on "biziness" he planted his sturdy little legs on the middle of the pavement and wrinkled his stubby freckled nose almost up to his eyes. borrey a cent to buy a paper?
The offender made good his escape and Junior returned to his reclining position against the post in no gentle mood.
For the past week Junior had been in what Jimmy termed a "tall huff." There had been no snow for some was forced to be idle. It was bitterly cold, and nobody ventured out to buy papers. Rent was due, and mother was greatly worried as to how she could pay it. Her mistress had re cently decreased her servants "because of the war," and mother was one of
the sufferers. No one else could give her work, and her savings were almost gone. But what seemed very dreadful her was the threat of the burly landlord. "He was ,, not wanting in tenants "who paid," and announced oo her that mornisg he woul give her not pay she must "git out" and leave him the "furniture" So Junior was in a "tall huff" with reason behind it. He didn't know how they would be able to scrape even landlord.
But Junior wasn't a lad to give up quickly, so he leaned against the lamp post to discover a way out of what seemed to be an unavoidable disaster Surely something must be done. His mall sisters couldn't stand the bitter urdordn't permit the time. Junior his mother under such trying conditions.有 brought tears to Junior's eyes. They would not let them starve to be sure; and "Be their home would , be gone nd signed to his fate. He saw no ere way out of the difficulty. He knew work so hard, but after all what did hat matter? Junior's affections would othing more than and he would be With a sigh he shifted his papers to he other arm and waited for customers Just then a man rushed by ail out oreath. He was dressed as a butler but the crowd of newsboys thought him some fine lord.
Junior did not move from his posi the newcomer. The words came dis tinctly to him where he was: Junior sighed and drew his tattered "Wisht the lan'lord was!" he mut
"Large rewad for his safe return!" waited. But the herald had had his him, he wast Junior looked up to find With swift feet Junior pursued him round the corn,"
May. mister," he gasped, "what's The man frowned.
"Like?" he repeated.
Junior nodded. I mean, how old's he, an' what's his hair an' eyes like?'


## FAIRY SOAP

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Fairy Soap produces a rich, free lather in any kind of water; its cleansing qualities are most agreeable and refreshing.

The oval, floating cake is also convenient to the hand and wears down slowly to the thinnest wafer.

A dainty tissue wrapper and the individual box keep Fairy Soap clean and pure, as we make it.

> HHE AK FAIRBANK CONTH:

"Age four, hair and eyes brown," he said bluntly, and turning on his heel left Junior far behind him. The old hardly realized that an important old gentleman wished a paper until
he felt the angry swish of a cane across his cold knuckles. Then Junior dismissed all thoughts of Mrs. Cochran's Tom and managed to sell seven papers. A business man gave him a suggestion. "Why aren't some of you down at had to come way up here to find you. Why, you're worse the to find," with his little cold hands a whistle, the depths of his trousers pocket went to seek better selling ground A small, richly-dressed child passed him in tears. Io appearance he was lost just as plainly as if he had a great tag labelling him so.
Immediately his thoughtsed his plight Cochran's
""Brown hair an' eyes," he mused. "'Bout four years old. Say," eagerly he grasped the strange child by the arm, "R'yu Miss Cochrune's Tom?"
"Ine ,strange child stopped crying
Here was luck indeed
happily as he took the child by the hand.
"Whar d'yu live kid?" he demanded. The strange child refused to speak. asked "Junior again.
"Whar, then? There?" Junior pointed to a large business house well adorned, with signs.
"Au gwan; that ain't yer home," enlightened Junior, "nobody lives there tinued in an exasperated tone, "Whar' yer maw?" "Iss," said the child.
Still Junior was not discouraged He felt sure that he held Mrs. Cochran's Tom by the hand. All that was lacking to him was where Mrs. Cochrane
lived.
"Cum ' he encouraged, and to his delight the child made no demur at being led away Then the enquiry began. No
pedestrian was allowed to pass without hearing the oft repeated question. Some laughed. Others looked cross and shook their heads. It was a crosg time before anyone would happen along with the much needed information.
Finally a sharp-nosed lady came to Finally a sharp-nosed lady came to ${ }^{\text {his }}$ "Mrs. Cochran lived at No. 72 Queen St., and if he had news of Tom he had better hurry." said Junior as he took his little charge by the hand and started for No. 72 Queen Street.
It was a large building with a glass porch, and boldly Junior mounted porch, and borch door "stuck," but the newsboy's tough muscles were more than a match for it. It flew open all of a sudden,
Then a strange thing happened. A small animal made its appearance from a dark corner of the steps and
ran under the startled boy's feet. Junior's hand was on the bell. Frightened he fell backwards, clutching wildly for some support with his bands. His left hand met the pavement with a heavy thud, but his right encountered something soft and warm.
It lay quiet in his grasp, but Junior had not time to examine it before the angry maid appeared.
"Did you ring that bell?" she demanded.
Junior nodded.
"Well, what do you want?"
The boy choked something back The boy choked something back quired in a voice that trembled: "Mrs. Cochran live here?"
"Yes, she does," snapped the maid, "what do you want of her?" "To return Tom," boasted Junior.
The maid hesitated. Then she heard The maid hesitated. apparently lifeless thing in Junior's hand, and she divined something.
in his hand Junior was ushered into Mrs. Cochran's presence, and immediately pushed forward the child beside him.

I IHE war has increased the cost of living. The housewife must, therefore, make her money go farther. By using a tea, like Red ther. By using a tea, like Re posed of Assam Indian teas she can reduce her tea bill considerably. The rich Indian strength requires less tea in the tea pot
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## FILLING A LISTER SILO

With a Lister Ensilage Cutter Operated by a Lister Gasoline Engine

had no eyes for the lost child Her Whole gaze was ruvetted
ling In a moment more she had it on a little cushion beside her and bent over
it with loving words and caresses. it with loving words and caresses.
The little creature acknowledged her love as best he could. Apparently he liked it. Junior was thunderstruck. Can you
believe it? The small animal was the believe "t"Tom!"
missing "child whom Junior had thought
The to be "Tom" began to cry loudly. Mrs. Cochrane left her pet to comfort.
Then the whole story came out, Then the whole story came out,
rather jerkily on Junior's part ".
"What's your name, dear?" Mrs. Cochrane asked the child.
"occhellie," was the reply
Junior started." "might knowed he was a girl," he muttered, woulda had more spunk. The maid was dispatched to the police station, and soon returned with Nellie's
anxious mamma. She heard the whole anxious mamma. She heard the whole
story, and admitted that she was the the lady who had discharged Junior's mother.
Next morning mother was sent for realized why she considered he had anything to do with it. He didn't mind anyway as long as everything
was all right again. The landlord was paid, and Junior
his home after all.

Our Junior Beavers For Beavers up to Junior Third Class, The Baby I use' to be the baby
I didn' the other baby came didn't know that maybe
I'd have to change my name, But now I'm only "Brother," I guess she's stayed my mother, But I haven't ast her yet). I thought, though he was tiny,
And he looked so very queer, He'd get over being warny,
When he found that I was he We'd be chummy as could be;
But I ain't a-goin' to 'Cause he isnl't nice to me.
mustn't even hold him,
Less he drops on to the floor, It just starts him in to ro And I go to bed alone;
But I wished he'd stayed in heaven
Till he'd got a litle grown P'raps some day there'll come another,
$\qquad$
$\qquad$
nior Beavers' finst letere to vir hamine (icrely
$\square$


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naster General, will be received at tataw
and

 he 1st October nextea No.






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master General, will be received at Ottawa until maon on Fridiy, the 1 Etch day of, June, 1916 ,
for the conveyance of His Majesty's Mails, on
for for the conveyance of His Majest's Mails, on
a proposed Contrat for four yeary, six times per
week over Glawworth No. 2 Rural Route, romm week over Glanworth
he 1st of October, next.
the 1st of October, next. tion as to conditions of proposed Contract may
be seen, and blank forms of Tender may be ob be seen, and bank forms of Tender may be ob-
tained at the Post ofices of Glanorth, London,




MAIL CONTRACT SEALED TENDERS, addressed to the Post-



 se the Post Offices of Thorrnale, Le London and
St. Mary
St, and dat the office of the Post Office S. C. ANDERSON, Superintendent.


## 

## MAIL CONTRACT.

 SEALED TENDERS, addressed to the Post-master Ceneral, will be recived at ottawa until
noon, on Friday the moon on Fridid, the 1 Eth day of, June, 1916 ,
for the conveyance of His Majesty's Mails, on a proposed Contract for four years rix times
per wek over Thornale No. 1 Rural Route, Hom the 1 st October next.
Printed notices containing further information as to conditions of proposed Contract may, be
seen, and blank forms of Tender may be obtained
 Post Of.c. ANDERSOO. Superintendent.


MAIL CONTRACT


 Printed noil ies contobining fuxt further informa
ion as to conditions of proossed Contract may俍 tained hat the Post Offices of Southwold Station,
Ste Thomand Muncey and at the office of
the Post (Oftre Inspector. ost Office Department, Canada, Mail Service


MAIL CONTRACT

 Printed notices containing further information
sseno con fitions of troposed Contract may be
sen and
 Post Office De ANDERSON, Superintendent


MAIL CONTRACT


## OurSerialStory

The Road of Living Men. by will levington comport
 the Country," ete.

LONG ISI

Now, this is a chapter of things seen Gate-at the House out of order. It was in the boat with Yuan and Jane as well, and a German doctor (who had changed places with old Miss Austin of the Mission on account of my condition) and three native boat-men. Of one conscious in the days that followed but Yuan was always near. The questions that I would ask lost themselves in a brain-mist, so that words could which Yuan told me entered the same in the deeper places there was ense frot the things he whispered in those long I remember the calling from boat to boat; the sudden shock of rifle-firing;
the cries of watchers in the night. And once (it was dusk, I do not know of night once (it was dusk,
or morning), a boat struck us, and the gasping gutturals that I knew so well, boat was rimmed with gun-fire. Huntoon fell across my knees, hit again, but apologizing bitterly for hurting me stifling with blood fresh from my wounds. layers of life conning co. There was that belonged to my chest and limbs, of remote acquaintance to consciousness this,-just a wrestle of agony in the morning before the fever mounted, with thirst, and all below the throt bruised and seared. I was glad to be rid of this layer. Second, the brainmists which only a shock could penetrate Then there was a dogged toiler that worked with no will of mine; down to
the very heart of misery it went, and held there, toiling with the fires, stokers in the hold of a ship that may fathers. Finally, there was a spirit that carried me, as on a strong wind, out of junk and body and brain-mist,
yet with all its journeyings and all its fluent consciousness, faint, hardly trace able gravures were left upon the memory Many times I fell from high places Once (Yuan told me of this) I squinted up at him to inquire if that were not
a neat dive. I had seen him from the sea, and he was far up on the cliffs of Oporto. Mary Romany playing the
I many temples and gardens, and always I was looking for a yellow rose in whose enchantment a lover might find his
voice. voice that seemed to summon meness in a death-trance- -the big eagle calling across the water from anotic "And how's the boy this morning?"
Yuan answered, and then I heard the added sentence: "That was the most satisfactory bit of barectly afterward, I heard Mary Romany's voice though no words are seemed to hear her say, "We have in perils from you- and those who belong death. er face, blanched with terror
I saw
ser nd her harr Romany from the face
ry of Mary Re
if the water, as her father raised the But more than all I saw her eyes (the boat striking at us from the river, the es
o Mary Romany with a look in them for ae, lovelier than any hope, triumphan

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One drum of Soluble Sulphur, weight 100 lbs., will
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mally 1,600 gallons. With Soluble Sulphur there is no make 1,600 gallons. With Soluble Sulphur there is no
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THIS WASHER MUST PAY FOR ITSELF














## 



Founded 1866 was broader, the banks lowered and far
apart, yellow sunlight upon the water.
Often, Yuan sat near, and I. could see a haggard and sate near, and I
emacted Hun. could see a haggard and emaciated Hun-
toon, farther back under the mattings, smiling at me.
a black. There was one night- like
camel, crippled unto death, a black camel, crippled unto death,
dragging its way across a desert. I saw, in the light of a held lantern,
Huntcon's arm bared to the shoulder blood spurting from it like a springJane Forbes laving and binding the
wound, shutting her eyelids to press Wound, shutting her eyelids to press
out the tears, the better to see. You are "brave, Mr. Huntoon," she said. "We all, should have been
dead without you". He called it a scratch and laughed weakly. His
face was sunken, the skin gray-white like dust, the lips white, the eyelids pulled together. it the long pallid nights
Yet it was that strange things would happen to
the mists in my brain, as if they for the night winds. The big sheet of matting above my head woold talk
to its mate, the river-wind and I could to its mate, the river-wind; and I could
feel the tug of the current beneathfeel the tug of the current beneath-
wind and current and oar hurrying us I remember low lights pricking the shore -and the heads of Yuan and Jane Forbes close together, their low voices
mingling with the monotone of the sail. That time the legs of the native boatmen, in the gleam of moon or river lightwere like dragons with writhing necks. standing with Huntoon. He was off his head, too, from the fever that comes thought he was drinking again-and he hadn't meant to. Once he revealed the white inner scroll of his heart where and the record of a clean love was hidden. . Yuan, the woman's lover, listened and wept-as the mumbling words of
the man who could never be his rival, trailed out to the wide night.
in the At last there was a quick curve in the big river, and all were awake,
though it was my lone part of the night though I I saw a great field of lights on the left bank -gun-boats and Hankow. Romany should be near me now
Jane Forbes was standing by, her face craned out ward to avoid the matting,
the first glow of morning in her eyes the first glow of morning in her eyes.
I didn't understand-only that it was some change, some crossing of eternity and soul, I was waiting for Mary Romany, because this was a crossing. Surely
she must meet me at every life-crossing. she must meet me at every life-crossing.
The dawn was a great gray temple with crimson foundations. The red, with the black boom of a clipper red, withor carved against the arc.
man-of-war wer lifting Huntoon to the
Sailors were deck of the ship. The native boat men near me watched raptly and whisper-p
ed, for this man had done much to keep ed, for this man had done much to keep
the fear of violent death in their hearts. Having that, they served us well. "d. can. He is one of the bravest men in China," Jane Forbes called softly, to those standIng above. small boat was near. The
Another whining voice of him who had prayd heard it since the prayer, but I knew. Safely out of the valley of the shadow,
it had found itself again. The Reverend it had found itself again. The Reverend
it he me mision was speaking to any who would listen. a maddening play upon the nerves. It secmed to ungarb some come
for Jone Forbes: something came
Jaw from it that poisoned her y sor-
her face, and so did an English cord
respondent, who left Benson to find out from the woman what her look
meant. Then I was lifted-up, up, it seemed,
into a dry, brassy light that devoured
my lifc, for I belonged to mists and
 for the woman. She must come soone,
lefore the full day, or I should have
to go. I told Yuan my trouble-Mary to go. I told Yuan my trouble-- -and
Romany was to meet me here- mind that I must not go away unt shing save the
And then I kew not hing she mists battle to remain, to keep the mists
away. Death was nothing if she would
Dhere was come. Pain was nothing. There was
nothing that I wanted -nither water,


A BARGAIN, S.-C. WHITE LEGHORN EGGS, dollar per setting; chicks fifteen cents each,
heavy winter layers; safe delivery. Walter
Darlison, Brantford Darlison, Brantford, Ont. winners at Panama Pacific Exposition,
Madison s Square Gardens, Guelph Ottawa.
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Wyandotte, White
Wenternorns, Barred Rocks
(Ontario Agricultural College strain), Indian
 CHOICE S.-C. BROWN LEGHORNS (BECKER
strain), eggs $\$ 1.00$ per 15 . Wm. Run, enfield,

CLARK'S ORPINGTONS, BUFF AND WHITE
exhibition and laying strains. exhibition and laying strains. Hat hing eggs
exhibition $\$ 5$ per 15, otherer $\$ 1$ and $\$ 2$ per 15,9
chicks guaranteed; $\$ 6$ per 100. A few food
 DOUBLE YOUR POULTRY PROFITS NEXT year by investing a few dollars now in eggs fo
hatching from our extra heavy laying strains of
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horns. For fifteen years we have been breeding horns. For fifteen years we have been breeding
heavy egg producers combined with superior quality. Our stock, raised on free range, pro-
duce large, , vigorous chicks, and the early laying
kind. Eggs $\$ 1.25$ fifteen, $\$ 6.50$ hundred. Sate delivery and satisfaction guaranteed. Cate-
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Brown Leghorns, persistent winter layers, 140 brown leghorns, persistent winter layers, 140
eggs daily tram 190 hess mated with choice
rigorous cockerels. Price $\$ 1.00$ per 13 . $\$ 2$ co rigorous cockerels. Price $\$ 1.00$ per $13, \$ 2.00$ De
40. $\$ 4.50$ per 100 . W. C. Shearer. Bright.
Ont FAWN INDIAN RUNNER DUCK EGGS,
per 15 eggs.
Hastings Bros., Crossbill, Ont. FAWN AND WHITE INDIAN RUNNERS Select matings, wonderful winter layers; also
Roues. Fertile eggs $\$ 1.00$ per 12, Ernest Howell, MAMMOTH BRONZE TURKEYS, LARGE trees, good shape and color, seventeen to twentynets, frye prizes on six entries, mated to (not akin)
first prize young tom, Guelph hist prize young tom, Guelph, 1915. Weight 3 .
pound is, eggs $\$ 4$ per 10. $\mathrm{Correspondence} \mathrm{solicited}$. George Neil, Tara, Ont. $\frac{\text { Berry, Queen St., Guelph. }}{\text { RHODE ISLAND REDS (SINGLE COMB) }}$ thoroughbred; heavy winter layers. Fifteen
eggs, $\$ 1.50$. Dr. Hendry, Delhi, Ont. ROSECOMB RHODE ISLAND REDS O.A.C.
bredtoMa lay. Eggs from select pen \$1.00 roo bred ito lay. Eggs from select pen si.00 rot
fifteen A Armstrong, Codrington. Ont.
RINGLET BARRED ROCKSWiGLET BARRED ROCKS- HEAVY
 S. C. BLACK MINORCAS-WINNERS STRAP-
ford, GaIt, Brantford, Hanover. Pen $1, \$ 2.00$; ford, GaIt, Brantford, Hanover. Pen $1, \$ 2.00$
pen 2 , $\$ 1.50 ; 3$ settings, $\$ 4.00$. J. W. Wettlaufer,
Bright, Ont S. C. RHODE ISLAND REDS -WINNERS Hanover, Owens Farm Strain, $\$ 2.00$ per set-
ting; 3 settings, $\$ 5.00$. J. W. Wettlaufer, Bright, SILVER-LACED WYANDOTTE EGGS FOR
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ot bred from high-class stock. The kind that
produces both eggs and meat. Egg one dollar produces both eggs and meat. Eggs one dollar
per setting.
Herbert German, Box 141. St. George, Ont. COLLII's HATCHER mw B BOODEA

Lochabar Poultry Yards

[^1]not earth light. The old suffocation
was bringing its thickness. I was full of sorrow and shame, for not proving
strong enough to hold the Crossing strong enough to hold the Crossing
until she came. -. It came. afterward. II heard have been some time
long before it long before it brought me back-and I could not penetrate. I fancied she came and then I was sure. Her words, though I did not understand them, fell like healing upon the very from her hands and the lovely magnetism with an ease and a releasing eyelids, such as the good must feel, when the wings of the spirit spread wide to the I wanted to hear her words aright, know Yuan told not given me. Yet through the night and the dawn waited Yes, I heard his voice, and anot and still another, the big eagle's-iust the voices, not the meanings. Now,
knew she was going; that this was just a hand at was going; that this was just to be together against the stream. A Yellow Land was about us and a Yellow Her face came into my deeper lifeMary Romany as she bent forward. at her temples, sunk its pallor deep beneath the bloom, and left the terror of its passing in the mystic darkness
A woman was there where the girl had
been. Other men must have realized this with the same furious intensity of meaning, so that I wonder it is not common among the revelations of talk Mary Romany now-that she was world-centre for me-that China had shattered all cloying self-consciousness.
Something eternal had happened. We Something eternal had happened. We were no longer strangers in flesh. Passion and labor-she had never meant to me the light of common day, flooded into the spaciousness of womanhood which the serviperceived-the toil of hams and the glory, the kiss of passion and the kiss of motherhood, weariness of flesh life and test love, gathered in apse and nave and ciborium-but the lustre
of ideals bravely filled the finished cathedral and a starrier worship.
But I am interpreting what was just miracle. a woman's illumination for man's eyes, the prepared woman who was but a maid before. calling Mary Romany, and she wept, her kiss
upon my forehead. And then from her breast as she leaned, came to my nostrils the secret of all life, the essence of liferagrance of the yellow rose that bloomed imperishably for me in her breast. ip
t brought the old words to my lips as it would out of death, if she bent
close. And she made the words come again-and laughed and kissed nd wept and went away.

## The Dollar Chain

A fund maintained by readers of The Farmer's Advocate and Home Magazine
for (1) Red Cross supplies. (2) Soldiers
Belgian Relief. (4) Serbian Relief Fth: F. M. Marchbank, New Annas \$1.00; Mrs. Robert Steele, Quyon, Que,
$\$ 5.00 ;$ Mrs. Wm. J. Johnson, R. 5. Perth, Ont.. \$10.00; A. Medford, Mt. Bridges, Ont. 4.00.

Ital to May Eth $82,341.4$
GIVE.
Don't be afraid to send small amounts. Contributions of even 25 or 50 cents
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Farmer's Advocate and Home Mage-


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Crackers and milk! "My goodness," you say, "it's a long time since I have enJoyed anything like that." But of course you remember how good it used to taste - the crisp, crackly bits of golden-brown bisclit floating in a bowl of sweet country milk. And It was nourishing. Children thrive and have always
thrived on it, because it is a natural pure food.
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Even if it cost more, Page Fence would still be a good in vestment, because of its proven superiority. But by selling direct from factory to farm, we enable you to secure it at prices the lowest that anyone can quote you even for ordinary fence.

For years regarded as the standard, this is
 the fence that has won the farmer's confidence by a steady adherence to high quality and full-gaugewe have steadfastly reused to cheapen it by cutused to cheapen it by cutting down weight to meet competition. The result is an unbroken chain of satisfied customers-anyone of whom will advise you to get this proven fence, rather than take chances with any lesser make
Our heavy fence quoted below, is all No. 9 full gauge, locks also No. 9 gauge.

$$
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& \begin{array}{c}
\text { No. of } \\
\text { bars }
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8 & 48 & 22 & 6-6-6-6-6-6-6-6 & 43 \\
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Our "Railroad" gate is a good example of Page superiority in this line. Note how it is braced. And note the Prices-
 mpossible for a gate so care- $\quad 12 \mathrm{ft} \quad 4.75$ 12 t . 5.00



All fence manufacturers are quoting higher prices than last year-but higher prices still are bound to come. If contemplating a purchase of

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Current Events

| The we! hath leader Pearee and sewen Others have been shot for their part in the meant insumection. Four humdred <br>  (a) Enghan! It was a combeblence, <br>  Whit the smationes yote dusing the tronlde some of the Irish butalionis It the tant wote Marians high wom- <br>  <br>  <br>  <br>  <br>  Anhe that matchant reatio "-hall mot <br>  <br>  It this promine is adheed to the Cermans | wiil leave merchant vessels alone, but will devote their entire operations towatch dostroying warships and transports. <br> After over 70 days fighting the Germant seem to be defmitely in check at limen, whmeh thay succeeded in chiming a touthohl in some French ant on morthen slope of Hill the Pan have arnded their vains, Win Mase thal French advance soems evident re civil populaMetz, c.tpital I to evacuate. Ancman the mixal of a fith contingent O! K-anion of Muse llis has put fiew -1T man, wed as mhat to the fightand the French. This steady fin doult one whe resulis of the great |
| :---: | :---: |

conference of the Allies, held some weeks ago in Paris. Renewed German assaults are now expected farther north, preFrance and Flanders
F. R. Benson, the Shakespearian ctor-manager of the ord-on-Avon Players, has been knighted

Through Day Coach to New York Leaving Toronto 5.20 P. M. Daily Via C. P. R. \& N. Y. C. Lines. Commencing Sunday, May 7 th, day coach passengers for New York may board $5.20 \mathrm{p} . \mathrm{m}$. Canadian Pacific train at Toronto, daily, and arrive at "Grand
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## CLAY TILE

INCHESES Prices and quality right For prices on sorted WM. DELLER


The Poultry Raiser's Opportunity.
From present indications Great Britain
will require all will require all the eggs and f poultry
Canada can produce during 1916 Last year, as a result of dreatly increased production, Canada was able to ship
to Great Britain the largest quantity of eggs exported since 1902, and at the same time reduced her imports for home Canadian eggs have found favor on the British market, and the prospects are that, providing they are available much larger quantities will be shipped this year. The unusually high prices
prevailing at the present time are prevailing at the present time are
largely due to this anticipated export demand.
Prices for poultry are also high,
and will likely of the season. Last fall and winter all the surplus. Canadian poultry was exported at highly profitable prices. Between fifty and sixty cars of live poultry were shipped from Western
Ontario to the Eastern States alone, and in the Maritime Provinces, particularly in Prince Edward Island, the export demand for canned poultry ha greatly enhanced prices to producers.
Although some uneasiness has existed Although some uneasiness has existed
on the part of the trade as regards transportation facilities in view of the boats, it is now reasonably certain that an even greater demand for Canadian poultry and eggs will occur this year. It is important, therefore that every poultry producer take steps to profit thereby, by hatching as many ickens as possible this spring. Now is the time, by hatching early month of May, to guard against the marketing of so much small, undersized, poorly-finished poultry, which annually becomes a drug on the market in the fall of the year. Again, it is the chickens every nowsible and giving thrive and grow, that a maximum supply of eggs can be obtained in the winter time.
Given their proportionate amount of attention, the growing of poultry brings quick and profitable returns
to the farmer cost of meats, milk, butter, etc., there is a constantly increasing demand for poultry and eggs. The labor problem is not critical, as the boy's and girls the poultry. The cost of feed is nominal, prices for poultry and eggs ar years. It is obvious, therefore, that Canadians have a patriotic, as well as an economic duty to perform in
making the year 1916 the banner year for poultry production in Canada. Live Stock Commissioner.

Trade Topic. It will no doubt be of interest to our readers to know that the Raymond
Manufacturing Company, Limited, of Guelph, Ontario, who for the past 16 years have been manufacturing the National" Cream Separator, have reto the Ontario Machine Company Limited, with Head Office at 18 Bloo
Street East, Toronto, under the direc tion of Canadian Separator experts Although will no longer be manufactured by the
new company, a full supply of repair
parts for the various tvpes of the parts for the various thpes of the
"National" machines will he carried in Toronto.
pany, Limited, will dovote its entire
time to the manufuture and sale of This machine is mate whin a self


Stop stooping - Lighten your housework

Think of an oven you can attend without stooping; an oven with a clear glass door at the right height to see through without bending over; the thermometer up where you can see it; all these things at handy standing height-and that in a range that burns coal or wood.

Do you wonder that women have taken the Lighter Day into their hearts, thankful for the relie from continual, tiresome stooping on bake days!

```
The LIGHTER DAY RANGE ba six mot biemo inside to shu
in strong cooking odors.
Hes Warmemioset just over he Oven car be reached without liftin
    Clear White Porcelain Enamel lines the top of the Range,
    A wide.deep Storage Closet with full-nickel drop-door.
    wouldn't it be a. wonderful saving of strength to have'a LIGHTER
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water for allo. other farm
needs as well. To-day is water for all other farm
needs as well. To-day is
the day to find out how an

## Empire surpirin System


can be adapted to your particular requirements.
Wouldnt you like to have
hot and cold water always Wouldn't you like to have
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ead $y$ in the kitchen ready in the kitchen
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buildings, water at good pressure for ire protection
waterto lo lighten farm work
It is easier tt is easier and cheaper to
get than you think. The
and Empire Out fit, including
all pipiping, is sent com-
plete, ready to set up. Do phete. weay to set up. Do
away with the disase
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and he hard water-lugging
methocrls. Write for our free book-
let. Tell us your nedds,
and let us kive you a free

Empire Mfg. Company Limited
East London Lond

## Questions and Answers. Miocellaneous.



ET us presume that you have studied the facts and decided to link up with your neighbors and the outside world by means of a telephone. Now comes an even more important decision-which telephone should you install?

Inferior apparatus is not worth installing-an instrument that does not reproduce the message clearly keep clearly in mind you will want

## Local and Long Distance

service. When you have connected up with your immediate neighbors-and as few as ten neighbors are sufficient for a local company-you will undoubtedly that you can talk to distant parts of the country.
If you consult the managers of the big companies they will all reco
TELEPHONES.

The Tremendous Importance
of Choosing
The Right Telephone!

## Stromberg-Carlson

 Telephones
## Carry the Voice

Across the Continent
Notwithstanding the very moderate cost, STROMNETwithstanding the very moderate cost, STROMconstructed, with a view to the perfect transmission of sound, even when connected with long-distance trunk is neither that millions toy nor an experiment. It is hateral private house; from farm to farm, and from city to distant city It is not cheaply constructed, it is beyond question

## THE BEST

apparatus you can buy. The only reason it does not cost more than the poorly-constructed telephones is because we make in such large quantities. Our strong guarantee stands back of every instrument we sell; you are positively certain of satisfaction. Let us show you how little a telephone will cost you; how you can form your local comp

Every Farmer Should Read "A TELEPHONE ON THE FARM"
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We think we have the longest experience
We try to give the best service We need your cream and will make it "worth your while" to ship to us. A card brings particulars.
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And what are you shetting for your We want more individual shippers and more mento ghon
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cram at all setysul of he
We pay express chath
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WESTERN DAIR

## CREAM WANTED Brant Creamery <br> Shiv your cream to us. <br> We eupply cans. We remit weekit. <br> 解 <br> Ontario Creameries Limited <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> Brantford, Ontario <br> arantees to you a high-priced market for cream every day of the year. Write for our book. Write for our book.

Address.

Gravel and Cement for Wall
How much gravel and cement wil it take for a wall 25 by 52 feet, 2 fee above the ground, 7 inches thick, 26 feet to be taken off for doors?
Ans.-If 2 feet is the total heigh of the wall it would require about barrels ( 20 bags) of cement and about you intend to put the foundation down below frost, say three feet. so it would require about 12 barrel of cement and 3 cords of gravel.

## Wages.

1. If a hired man starts workin Jan. 1 and quits working Jan 1, and
the farmer asks him to stay a few weele longer, not making a bargain for the few weeks, could he collect the same wages as for the last year at any time int the year if he money by the year?
Ans.-1. It is likely he could collect at the same rate as for the previous year if nothing was said as to wages allow a man hired on such terms enough allow a man hired on such terms enoug money to meet his needs as the time
goes on. He cannot be expected to put in his entire year withouthhaving any of his earnings.
Horse Sick, Calves Chew Wood, Etc. 1. I have a sick mare. First I noticed her lying down but fairly easy
Rouse her up and she would start pawing, not steadily but at intervals of two or three minutes. At firs chance she would lie down again, if on right side she would at once get up
and get down on left side. Did not and get down on left side. Did not appear in much distress, but in a few hours she would lie out flat and probably
roll, then straighten up again. She roll, then straighten up again. She
finally became worse and would lie out flat for some time. She seemed quite bright about eyes. When roused up and stepped about would pass smal bits of dung which were pretty soft and finally became more so. What 2. Would
horse salts? If you advise giving he 3. Calves have taken to gnawing boards in stall. What ails them?
2. Abscesses have grown on outsid 4. Abscesses have grown on outside
of cows two hocks. She is on cement floor probably a little short for her What would be cause and treatmen 6. What is difference between chloride of lime and quick-lime?
3. Is there anything that will keep rubber boots soft and pliable and pre vent cracking
Ans.-1. Symptoms indicate colic. Feed carefully. Avoid sudden changes
of diet. Give a purgative of 8 dram aloes and 2 drams ginger. Feed bran only for 24 hours before and 24 hours after administering the purgative. The mix equal parts ginger, gentian and
nux vomica, and give a dessertspoonful three times daily. If she has another attack give $11 / 2$ ounces each of laudanum, tincture of belladonna and sweet spirits of turpentine in a pint of cold water $11 / 2$
a drench. Repeat if necessary in hours.
purgative Salts are not a suitable purgative lack. This is suppased to be due to a lack of something in the system. Thes.
some salt and sifted hardwood ashe It is generally believed to be an indica. It is generally believed to be
tion of a lack of phosphates. 4. They are fikely not real abscesses. It is doubtful whether you
can very much reduce the swellings while keeping the cattle on cement Try some absorbent liniment. Lying on a hard surface will cause them.
5 . 29.6 , figuring 1 fluid dram to equal 3.70 c.c., or 1 c.c. to equal 27 fluid
drams and 8 fluid drams in a fluid ounce. Chloride of lime is bleaching powder apparently composed of calciu chloride and calcium hypochlorite Quicklime is the ordinary buliding anhydrous calcium oxide.
anhydrous calcium oxide.
4. Rubber boots should, when not in use, be kept in clean water, or should be washed from time to time and kept in a dark place. This will aing
in preserving the rubber and keeping

## Selected Seed Potatoes


 Early Ohio (lite....
Writet Star (ate)...
Green Mountain. Green
Delawar These prices are for immediate delivery.
Sacks included.
Ex-warehouse.
cask.

Seed Corn Siveted din butck so be to bubsel. De
 Mammoth Cuban
M. S. Sweet....... Compton'st.............
Longfellow............. These prices are er-wa….............. 1.75 These prices are ex-warehouse. Cotton,
bags extra, 25ce Homegrown mangels, grown under Government supervision in in
Waterloo County. It is selling fast, and Waterloo County. It is selling fast, and
tock limited. Send in your order early, stock limited. Send in your order early,
so an not to be disappointed. Price, 45 c .
lb. by mail, postpaid.
HEWER SEED CO.
Guelph
Ontario

## CLOVER SEEDS

(Government Standard)
No. 1 Red Clover.................. $\$ 16.00$
No. 1 Red Clover....................... 16.00
No. 2 Red Clover.............. 15.50
No. 1 Alsike................... 12.50 No. 1 Alsike...... 11.00 No. 1 Alfalfa -... 16.00
No. 2 Timothern Grown) 5.50 No. 2 Thimothy.....................ity) No. 3 Timothy.................... 5.00
White Blossom Sweet Clover 13.00 Marquis Spring Wheat.
M. O. A. C. No. 21 Barley .85 O. A. C No Bi 1.60 Terms, cash with order. Bags extra at 25 c. each. On all orders east Mantoba of $\$ 25$ or over we
pay the freight.
We guarantee seeds to satisfy or Ask for samples if nece
TODD \& COOK
Stouffiville, $\qquad$
Ontario

## Yellow-Eye Seed Beans

or sale. Also some White Seed Beans or sale at the Dutton Elevator. Send or
Dutton. WM. McLANDRESS
Seed Potatoes
New Brunswick Grown

Crampeoy \& Eelly, Dovercourt Rond. Toroate
Mallory's Strawberry tion and Profit.
Leading varieties $\$ 4.00$ p
1,000 . Fifty 1,000. Fifity plants each or
four choife varieties, early and
late for $\$ 1.00$. Send for pid
list list. Mar 81.00 . Send for pric SEED GRAIN
 ANO. BLDER oz. Sotion

First-Aid Suggestions for Horsemen.
As we have 50 or more Percherons found it of great benefit to handle the more simple cases ourselves, especially since our nearest competent veterinarian is located 12 miles from the farm.
stock of drugs be kept that some and that some one on the farm have some little knowledge of administering them. A short course in veterinary science, or close application to some good text on the subject, together
with a little common sense, will soon enable the beginner to treat many cases without aid. wholesale house because of a near-by cost in buying in large quantities.
Undoubtedly the most common allment Undoubtedly the most common allment quite violent at colic. Although it is serious if attended in time. Our favorite remedy is aromatic spirits of ammonia and asafetida, given in water at frequent intervals until the animal is severe blister use cantharides for a severe blister, iodine for bruises and the lesser inflammations, antimony
chloride for cleansing old sores and abscesses, and epsom salts, raw linseed oil or aloes for laxatives according to the necessity. We also have a host of other drugs such as aconite, powdered opium, nitric ether, belladonna, ca vaseline, arnica, alcohol and some disinfectant. that are a necessity, the most useful being a syringe, preferably 2 . 02 ., thermometer to determine stages o fevers, floats for dental work, a catheter
for cases of retention of the urine, needles and silk threads of various sizes for sewing up occasional cuts, small pump and length of hose that we use to disinfect the womb and remove afterbirth when necessary, and last but of much importance are knife and
rasp to keep the feet in proper condition Many of the more simple things are omitted, as are also some of the more complex, as the inexperienced breeder had better secure the services of a competent veterinarian than to experiment on. a valuable horse. However care watch of the ailments, and action, will soon enable one to hiandle many cases without aid, an obvious advantage to any breeder

Questions and Answers Miscellaneous.

Electrical Engineer. What education is necessary in order
o qualify for an Electrical Engineer? Ans.-Matriculation standing is nece sary before entering university, where
the course extends over a period of four years. A certain amount of practical work is also required before the degree is given.

Boundary Tree
A. and B. live on adjoining farms . cuts down a tree on line fence, with twenty years. Could B. claim partlo

## Ontario. 7

Ans.-Yes. Moreover A ha
 to cut the tree down without B's con-
currence, and might be proceeded against currence, and
for trespass.

Millet for Hay
Millet for Hay
Which of the following seeds would
you recommend to sow for hay on
black-muck soil, Hungarian grass, com-
mon millet, or German millet? How
much seed per acre?
Ans.-Any of the three varieties
mentioned yield fairly well. Hungarian
grass is recommended when seeding
is not done until latter part of June
or July. It is a quicker maturing
variety than the others mentioned.
Common and German millet give similar
yields. A variety, known as Japanese
Panicle, has given the heaviest yield of
hay over all other varieties of millet.
From twenty-five to thirty pounds of
seed per acre is the usual amount

## CALDWELLS

## Equal to a nurse cow

for bringing calves along "sappy" healthy condition. sappy" healthy condition. It is as you know imprac-
ticable, except in cases of pure-bred stock for exhibition purposes, to keep a nurse cow to raise the calf. The same results may be ttained by weaning the
 calf at once and rearing it on

## CALDWELL'S Scobatitue CALF-MEAL

Careful analysis shows that Caldwell's Cream Substitute contains practically the same nourishment as whole milk. It therefore enables one to sell the milk, yet rear the calves just as rapidly and well as by the natural method. This perfect calf food contains Linseed, Wheat, Oats, Corn, Locust Bean and Pea and Molasses Meal in sufficient and proper quantities to ensure hearty "sappy" calves.

The government-guaranteed analysis of Caldwell's Cream Substitute shows a protein content of 19 to $20 \%$, fat 7 to $8 \%$ and fibre $5 \%$. These figures readily show the richness and milk substituting properties of this food

Ask for Caldwell's Cream Substitute when at your feed store, or write direct to us and we will gladly supply you.
THE CALDWELL FEED \& CEREAL CO., LTD., Dundas, Ont. Makers of all kinds of High-class

## STANDARD FEEDS



SEE THE DIFFERENCE Here are two cans withe glass sides inserted
to show contents. On the left varnish stain. See the muddy ediment aty tled at the bottom. It must be stirred before using, and never gives good results. On the right is Campbell's Vamish Stain -clear asa crystal-no dregs or sediment. Its ingredi-
ents are scientifcelly unifed. Y Out conveit ents are caientififally unifed. You camuse it
CAM̄P:2L'S VANNEA STAN
DISSOLVES GREASE SPOTS
Therel we have given you two big reasons for using Campbell's in preference to all othern. You'll find many other reasons in the frist can you buy
 - LET US SEND YOU THIS BOOK


 CARPENTER-MORTON CO.
A. RAMSAY \& SON CO


## Peerless Poultru Fencing

| A A real fence, not netting. Strongly |  |
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| The wires are held together at each intersection by the Peerless Lock. |  |
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| assigned territory. Write for todey THE BANWELL-HOXIE WIRE |  |
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## Mr. Burke Gets a Pound More Butter Per Week

For some years we have been laying emphasis on the great skimming records of the Standard Cream Separator at Govmany of these records. We intend to keep on printing them, because they prove the superiority of the Standard beyond any question.

In Nova Scotia, for example, the Standard Cream Separator has achieved great fame for close skimming. dated October 2nd, 1915, shows what a Standard has done for him. He says:-

I am very pleased to say that the Standard Cream Separator, size 4, that have been using since the list of Septem
ben, is giving me perfect satisfaction. W have used two other kinds of separators, and can truly say that we can make a pound more butter a week with the Standard than with either of the others. We will be please buyers.

Another man, this time from Sprucedale Ontario, writes We are well pleased with the Standard Cream Separator. Ne made more we did in 1912 off six cows without the separ tor. The four cows were the same ones milked in 1912 and 1913. (Signed) This. J. Smith."

American dairymen have also learned about the close skimming records of the Standard Cream Separator, and we are sending larger numbers of this Canadian-made machine across the line every year. Last year we shipped 47 per cent. more separators to the United States than the previous year. This is merely mentioned to show you that the Standard Cream in their own field

Besides being the closest of skimmers the Standard Cream Separator is of the most modern construction, has the most thorough self-oiling system,
floor or over the machine


It has interchangeable capacity -year ahead of other separators in this respect The capacity of a standard machine can be
increased at any time by merely changing increased at any time by merely changing
the size of the bowl. You do not have to buy an entirely new machine if you should happen to increase the size of your herd any time.

Compared with other machines, the Standard gives you the utmost dollar for dollar value. You cannot find a machine
constructed ofedbetter materials, or more accurately built, or more up-to-date. You cannot find one that will make more superiority as a cream getter and money-earner. If it is MORE cream profits you want, the Standard will get them for


Made in Canada

Have you read the latest Standard. Cream Separator catalogue? It's free. Send us your name and address.

The Renfrew Machinery Co., Limited, Head Office and Works: RENFREW, ONTARIO AGENCIES ALMOST EVERYWHERE IN CANADA


Raised on "Purina" MEAL
 man money by tuxitur Prime cars containing 33 per cent. Protein and not less than 4 per cent. Fat. Asir our dealer about the special intro.

PURINA" feeds are put up only in Checkerboard Bags. Scientific feeding Chart sent Free upon request.
CHISHOLM MILLING CO.,
imited




SOLVING THE "HIRED HELP PROBLEM"

Canadian Engines, Limited

## Oyster Farming.

 Editor "The Farmer's Advocate": From early Roman days down to the as a table delicacy. This is due, not only to the favoritism of the epicure, but also, because of its high food value, and its economyAn Oyster farm in Texas is far more valuable than a land farm is; it is also far more interesting. One might think water, but the oyster farmer will assure you that it is no snap at any stage of the game. Owing to the long growing season, and the mild climate, Texas offers a prolific field for the culture of oysters. beds in the numerous lakes, bays and coves along the coast that the oyster farmer never lacks seed for the sowing.
Only a bona-fide resident of the State Texas may obtain an oyster farm in the state. As much as fifty acres may be proximately $\$ 10.00$ and a yearly rental of ten cents an acre is paid for the first ive years after which the farmer pays a yearly rental of twenty-five cents an acre.
Like the land farmer, the oyster farmer must first prepare his land, plant his eed, and hare is a suitable bottom for the cultivation of oysters. This means firm substratum overlaid with a soft bed of mud. A muddy bottom is to be preferred to a firm, sandy one, as it is more likely to be stocked with the small organisms on which the young, or seed it is necessary to prepare the surface in some way in order to prevent the oyster becoming submerged and suffocated in the soft deposit of mud. In making new beds man must follow Nature's plan. Choosing a location free from too severe currents and supplied with food, the debris is clear ar ar is prepared for the spat" to light upon. Oyster shells, clam shells, gravel or sand is strew around, serving the double purpose of preventing the voung oysters becoming submerged and affording places to attach themselves. either the "seed" ways of planting, the "spat" which has been caught in the spawning bed
Oysters spawn in the spring of the year. A female usually produces $16,000,000$ young, which, at spawning time, are mere microscopic specks. This may seem like some fas but scientists million to grow up. After spawning, these tiny, whirling specks float away from the parent oyster and swim about until the first appearance of shell. Then, the free life ceases, and the minute oyster becomes attached to some support, and proceeds to develop know as a 'spat'. well-supplied with shells, rocks or other supports, a good 'set' may be expected, a cold spell will kill the young, and rough water will drift them out to sea. and rocks are furnished by Neyster shells a nursery, but the oyster farmer can make as good a one with limbs of trees, tin cans, shells, brush and scrap iron. The 'spat', when large enough to be transplanted, are known as seed oysters. ones which we very small or good sized in five or six months after bedding The seed is sown at the rate of from three to six hundred bushels per acre. It is scattered over the beds as evenly as possible from boats. The farms are as evenly staked out and planned as ar The oyster f in order to find grounds. This entails the expenditure of much time and some capital. The growing and fattening conditions may be ex-
ceedingly good but there may be currents which would carry all the food organisms eway. to protect the oyster beds from the fish. The thrifty oyster farmer will protect his heds by driving stakes into passage of close enough to prevent the passage of fish between them. he has ain "awful" fruitgrower thinks pests, but he cant spray and keep them


DLEASURE CRUISES or R.M.S.P. .7o
WEST IWDIES

FORTNIGHTLY BAILINES
By Iura-berver tan traamere
spectal pacthities pot rounasth R.M.S.P. "Chaudiere," May 19, 1916.

The liojat mall stoam Pestot Efis ofesa, Cramillo Btroot, malifax (ica) cooal tieker Aotmens.

Men's Clothing For Sale Get your new, suit from Catesby's. London Write for free catalogue, self measurement fork CATESBY'S Adreme CATESBY's LIMITED, Canadian Oflat
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Mexican Liniment
Should be in every stable STOPS BLEEDING instantu POR CARED UDDERS IN COWS
SORE NECK GALLS DISTEMPER SORE NECK GALLS DISTEMPER
SPAVINS t has no equal.
25 c ., 50c. and_\$1.00
Sent prepaid "on ${ }^{-}$receipt of price
f your druggist cannot supply
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Dept. E. Toronto, ont.


Pan Lougin
off. The oyster-man can not do that but he has to devise ways and means of
keeping the enemies away from his keeping the enemies aun
spawning beds. Human enemies, with twenty cents worth of
the work of years in a few minutes Upon the farmer's vigilance depends the
success of his crop, which is hidden under success of his crop, which is hidden under
the water where yast schools of water $\left\{\begin{array}{l}\text { the water where vast schools of water } \\ \text { creatures are waiting to devour the }\end{array}\right.$ young.
sea in great numbers by adverse currents Fish devour the larvae by the million crabs, starfish and drill prey upon them, and a cold spell will kill millions of them. Then, too, a flood or too great an influx
of fresh water will spoil the beds, while not enough fresh water is equally dis astrous.
Of living enemies, the drill is the one most dreaded. It is a small un-obtrusive-looking, yellowish-gray creature about three-quarters of an inch long
It bores a tiny hole in the shell, and suck out the soft part of the helpless bivalve leaving the tough portion for the crabs and other scavangers. Its appetite is
insatiable, and whole beds have been ruined by its depredations
After an oyster begins to form a crus
it cannot move around from place to place, and easily falls a victim to it enemies.
The oyster beds of Matagords are th largest and most productive of any on
the Gulf Coast. They comprise about the Gulf Coast. They comprise about
5,000 acres. Palacies and Port Lavaca 5,000 acres. Palacies and Port Lavaca
also have many prolific farms. Port also have many prolific the state. Here, in the packing seasur
millions of shells are piled into miniatur mountains ready to be hauled away and utilized for various commercial purposes.
The Southwest has hundreds of miles of perfect roads upon which oyster of perfect roads upon
shells have been crushed.
The oysters are gotten up from the rakes fastened together by hinges. Two men in a boat constitute a crew. Oyster
are worth, at the boatside, a dollar
bushel. bushel. the mouth of the San Barnard River, Brazoria County, Tex., are the
famous Oyster Reefs. From these reefs, at certain times, the strangest, weirdest,
wailing sound is heard, which has given rise to many superstitions amongst the negroes of the vicinity, Tradition fisherman who was said to have been
murdered by his comrade They he was playing his violin when murdered
and that his spirit still plays beneath
the waters
$\qquad$
$\qquad$
Trade to the West Indies.
$\qquad$
ampany providing for a fleet of Ma
and Passenger steaners to run fort
nightly from St. John and Halifay
nightly from St. John and Halifax to
the West Indies and Demerara (Britis
the European War, which has affected
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Cure Your Cows of Caked Udders Witb Douglas' Egyptian Liniment 3 APPLICATIONS GUARANTEED
For Sale Everywhere. Write for free sample Douglas \& Co., Napanee, Ontario Clydesdales, 1915 Importation $\begin{aligned} & \text { With the addition of our } 1915 \text { importation of } \\ & \text { Clydesdale stallions } \text { we are particularly strons }\end{aligned}$
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testing and big producing dame. Strictly high-class. Also Shetland and Welsh Poniet.
 SHORTHORNS SHROPSHIRES CLYDESDALES Have still on hand one bull fit for service by Newton
Sort 93019 S. Some good young thingse oming along. WM. D. DYER,
A few young cows and heifers. Come and see them. R. R. No. 3. OSHAWA ONTARIO , 4 miles from Myrtle, C.P.R. 4 miles from Brooklin, C.N.R
aple Grange Shorthorns sying R.J. DOYLE Owen Sound, Ontario
Meadow Lawn Shorthorns $\begin{aligned} & \text { We are offering a choice lot of bulls at ven } \\ & \text { reasonable prices. An exceptionally good }\end{aligned}$ sired by Clan Apine 2 nd. No. 88387 , G. D. Donside Alerandra (imp) No. 59513, and any one waik
ing a right good herd header would do well to secure thio bull as he io a emooth, well proportion
 Shorthorns
Ganada's Grand Champion Shorthorns of 1914-1915

4GLENGOW SHORTHORNS AND COTSWOLDS


South $\frac{\text { Robt. Mce }}{\text { Elm Par }}$ at Clencarnock
Park Rago Inter
Pingleade Parlic Ring Inteade

loters to this | kind of bulls |
| :--- |
| teem-Angus | James Bown Tweedhi Uriteo:-



## Fertilizer Quality

When you buy fertilizer remember you are buying what is in the goods and not merely a weight of two thousand pounds.

When a smelter buys gold ore be buys not merely two thousand pounds but he insists on knowing bow much gold is in the ore, and you should know the amount of active nitrogen, which is the gold of the fertilizer.

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G 1 LESBBURG, KANE., U.s.A. Alloway lodge stock farm Angus, Southdowns, Collies

## Southdown Prize Rams

 ROBT. McEWEN, R.R.4,London,Ont. Elm Park Aberdeen-Angus ark Rungleader 5th 108676 . We have two full
 lem-Anyus cattle, We have son
James Bowman, Box 14, Guelph, Ont. Tweed hill - Abordoen-Angue, Choice loo lemalno II you want anything in this line, Shmee Sharp. R. R. 1. Terra Corta, Ontarlo
Cheltenham, C. P. R.,
The Glengore Angus we have

 Beaver Itill Aberdion Anauo- - Bull fif of
 Aberdeen Farm $\begin{gathered}\text { bas for present offering } \\ \text { some choice young Aber- }\end{gathered}$ deen-Anguy stix $k$, both sexeme, chiceice reaoung aber R. R. No. !. W. Burt \& Sons

Questions and Answers. Miscellaneous.

Breeding Query
Could steers 1 and 2 years old which
were castrated when calves get cows were castrated when calves get cows
with calf? with calr The testicles are gone but
the one cord (or both in some cases) seems to have grown.

Ans.-If properly castrated, that is
both testicles removed no
Line Fence
Between the farms of A and B is a
drive way, leading to drive way, leading to A's residence and
belonging to A. A's farm is fenced with the exception of this open drive, Can B compel A to build half the line
ence along the drive?
Ans, - As the drive way is entirely on A's farm, it would be necessary for line fence.

Eczema
I have an eight-year-old horse whose skin becomes itchy every spring as soon
as warm weather comes and he rubs as warm weather comes and he rubs
his mane badly. He keeps in good condition and appears to feel all right.
What remedy would you advise? What remedy
Ans.-This is a form of eczema. If the hair is long clip him, then give a
thorough washing with warm, strong soap suds, applied with a scrubbing brush and rub with cloths until dry Dress twice daily with a solution of
corrosive sublimate, $t$ wenty-five grains corrosive sublimate, $\begin{aligned} & \text { twenty-five grains } \\ & \text { to a quart of water. } \\ & \text { Give him internally }\end{aligned}$ to a quart of water, Give him internally
one ounce Fowler's solution of arsenic twice daily every alternate week as long as necessary.

- Farming on Shares.

A lets a farm to B on shares. Supplies the farm and buildings. B work and pays taxes. What share of the produce of the farm including roots and grass ought A to get? If the farm than 5 -is it customary for the owner to pay any part of the cost of grass Ans.-Not knowing all the circum Ans.- Not knowing all the circum-
stances in connection with the farm or stances in connection with ine farm or
the class of crops to be grown it is difficult to say definitely how the division of
returns should be made. However, as returns should be made. However, as
the owner only supplies the farm, from the owner only supplies the farm, from
35 to 40 per cent. of the returns should 35 to 40 per cent. of the returns should
be a fair share for him to receive. It is usually stipulated in the lease that the when the lease expires as was seeded when he went on the place

Second Sight

In Boston they tell of a street boy of
diminutive stature who was trying to sell some very young kittens to passers by. One day he accosted a distinguished Episcopal divine, recommending them as
oood Episcopal kittens. The clergyman laughed and refused.
lauged few days later a Presbyterian
A
A was asked by the same boy to buy the same kittens. This time the lad an-
sat nounced that they were faithful Pres
byterians. "Didn't you say last week that they
were Episcopal kittens?" demanded the minister. " "hut they've "Yes, sir," said the boy, "hut they' v

Arrangements have been completed Arrangements have Nothern Rail-
between the Canadian Not
way and the Department of Agriculway and the Department of Agricul
wre, of Saskatchewan, for the operaz
ion of a "Better Farming Tpain over the lines of the Canadian Northern
Railway in Saskatchewan during the Coming summer. The meetings are
ocheduled to commence on June 12 th, The train will consist of fifteen cars

$\qquad$
$\qquad$

talk to the people at the the eubjects
points to bie visited, upon
in which they areamost kenly interested.


It's service, not surface, that counts in Wire Fencing

Fences made of soft wire may look all right, but they ing strong, healthy, active live stock within bounds.
NHERE is, however, one fence that you can count on for satisfactory
service year in and year service year in and year out, and that is "Ideal." Made of large
gauge No. 9 hard steel wire, heavily galvanized, with the verticals and horizontals clamped together with a patent lock that cannot slip "Ideal" fence is bull-strong, hog-tight, horse-high-a real fence, every foot of it

## Ideal Fence

The quality of the wire from top to bottom in "Ideal" Fence is all the same gauge, hard drawn steel wire, tough, live, springy, heavy wire that will be standing up doing splendid service years from now. This 9 -gauge horizontals, but softer, weaker wire for the stays and locks Naturally this takes something off the price, and it takes something of the strength and durability too, far more than the difference in price. You are going to fence for a lifetime, then fence with "Ideal" and det a lifetime's service.

We make a fence for every purpose. Write for ai:
copy of our catalogue which deacribes them all.
The McGredor-Banwell Fence Co., Limited, Wellerville, Ontario.
 ZENNER DISINFECTANT CO., Sandwich St., Windsor, Ont

## THE AULD HERD

Two good young bulls for sale, one fourteen and one seventeen months old, also a couple younger. Intending purchasers met at station on request.
A. F. \& G. Auld, R. R. 2, Guelph, Ontario Oak Lodge Stock Farm Spring Valley Shorthorns


解 Maply a good young bull at a price which will mare him well worth the reason. Can alwayo
sumey. Not many
females for sale
romm, G.Y.R... Wh. A. MRYEN. Maple Shade Farm, Brooklin. Ont

 Shorthorns and Shropshires With 125 Mead to secect from, we can supply young cows in calf, heifers from calves up, and young bulls from 9 to to 18 moonth, of age, raphly
bred and well feshed. In Shropehtree we have a large number of rem and ewe lambe by a Toronto 1st-prise ram; high-clase tot. Fill Shorthorn Herd Established 1855
 of either sex. Splendid condition. Good James Douglas, Calodonia, Ont.
fa milies of both milking otrain and beef. Jand




Inseparable!

## Uindsor <br> 19世菏

THE CANADIAN SALT CO, LIMITED
STAMMERIIG

THE ARNOTT INSTITUTE
SHORTHORNS
Five high-class bulls, from 10 to 15 monthe, two
sired by Real Sultan, others just as good. Am in pricing them low, ae it is getting late in
the season. A fewe heifers and
young cows to offer, some milkyoung cows to offer, some millk
ing families. Freight paid.
Stewart M. Graham, Lindsay, Ont
 Two red and months old, from good milking tan 8 , price sinht, Also one god
roan bull, 8 mos. old, a Camphell Rosebud, a rigt t roan bull, 8 mos. old, a Campbell Rosebud, a rigt
good one. Write us, or better come and see.
JOHN SENN \& Son Caledonia, R. R.

## SHORTHORNS

A few choice bull calves for sale. Would
price a few femalēs. Inspection solicited J. T. GIBSoN, Denfield, Ont. Burnfoot sioct Faym Culadona, oot
 roan bull. calved Aug. 13. 1915, out of Jean's
Lassie, the champion 2 -yararold in the R.O.... and
bire as good. S.A. Moore, Prop., Caledonia, Ont Shorthorns - "Pail Fillers"-Our Shortlor big milk production. If you want a stock bull
bred that way, we have several; ;also Clyde. stal-
lion rising 3, won 2nd at Guelph the other day in a lion rising 3, won 2nd at Guelpht the other day in
big class. P. Christie 8 Son, Manchester, Ont. Shorthorns liulls, females, reds, raans, size,



How One Horse Was Broken An amusing illustration of the power
of determined
patience is related Captain Kerr, of the Britislr Cavalry In his own words it is as thilows which a well-known Yorkshire breeder and breaker-one who always broke in his own colts-cured a stutborn and
by no means uncommon case of mulishness. Riding a colt one day, about noon, the colt rested-i. e., obstinately refused to turn out of the road that led to his stad, plunged, stuck his toes firmly in the ground, backed into the ditch, and otherwise behaved himself unseemly.
"Many a man would have administered severe punishment, and hav
endeavored to exorcise the demon of endeavored to exorcise the demon
contrariness by free application of the Newmarket fogger and the Latchfords. Our friend's creed with patient
suavitor in suavination. After exhausting every
determinat method of kindness and encouragement
he determined to 'sit it out','so, bringing the disobedient youngster back to the point of disputed departure he
halted him there, sitting in his saddle as immovable as one of the mounted sentries at the Horse Guards, or Park
Duke of Wellington at Hyde Park Still Obstinate.
"At the end of an hour's anchorage
a fresh essay to make the pig-headed colt go in the way it should go resulted Observing a lad passing at the time,
the determined tyke ordered him to go to his wife, and tell her to send his dinner to the cross roads, for there he meant to remain out all night and
the day following if need be. The repast duly arrived, and was despatched
on the animal's back. Another effort was but a fresh failure, so the statuesque, weary wait was resumed, and immovable. Here was the living exemplification of Patience on a monu "With, the setting sun came the
horseman's supper, still not a move, and horseman's supper, still not a move, and
the sturdy yeoman prepared to make night of it. In due course his top
coat and a stiffly mixed 'meet cap arrived.
divined the meaning of these campaigning arrangements deponent sayeth not;
anylow, his mater had hardly donned the one and swallowed the other than the quadruped, with one long sigh, one that
nearly carried the cirths away all hil obstinacy evaporated, and, thoroughly dendeated, revievel hedmself from his post, the direction he had so long protested
so firmly against. The lesson was a permanent one; it took some eight
hours in the teaching, but lasted a lifetime ehe never 'struck up' again."
If it be objected that a vicious anima cannot be so handled, suffice it to say that impatience and harshness
never controlled or broke one

Planting Weak Seed Corn Although seed corn has tested
fairly well at the Ottawa Laboratory tested would do well to take special care tris season that their seed is of
strong vitality. Owing to unfavorable
ripening and harvest weather, some of last year's seed corn crop may be low
in both percentage and vigor of germina in orth percentage and vigor of germina
tion. This seed should not be planted until the soil is warm and the weathe
at its best to encourage the growth the young corn plant. The rate of
seeding may be increased, but no amount good stand of plants unless the condiSweepings from threshing floors and
granaries are frequently dumped in the granaries are frequently dumped in th
barnyard, and later hauled to the land
with the manure. The sweepings lron the floor and its crevices are usually
loul with weed seeds. Unless the yari
corping wir wane is then


## Next Winter When the Ground Is Covered with Snow

OU will appreciate having an Ideal Green Feed Silo full of rich,
juicy silage. It will make your cows produce a larger flow of milk Silage increases milk flow 25 per cent., and reduces feeding cost from 15 to 20 per cent. Besides, silage is so easy for you to feed. It is com-
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Sootch tamit made right, just what you want to make a proper foundation for a good herd, and suitable toll
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Peasant Malley Farm Shorthoris $\begin{aligned} & \text { - For sale, } 9 \text { bulls of serviceable ase. } \\ & \text { bull at a interest you ight price, for herd heal header }\end{aligned}$


## 

Fletcher's Shorthorns Our herd of pure Scotch Shorthorns (imp.) and from imp. stack Toronto in 1914 and 1915. Former sires. Royal Bruce (imp.) $=55038=$, Benachie (imp.). $=69954$.


Seth's Potato Phillosophy. Editor "The Farmer's Advocate" Seth Whipperton says potatoes are like people in one sense. Their quali-
ties follow largely by rule of families. Last year before planting time he read about the experiment of Professor Waid, of the Ohio Experimental Station. Prof. Waid compared results from good seed selected from the pile with those
from seed selected from good hills. From each 100 lbs . produced from the former there were 125 lbs . produced rom the latter. Last fall Seth followcd his seed from the best hills. He is very much excited over the new way, said Seth the other evening. "Fertilizer hat is all ready for the plants to use is all right, but it's bad to put dung where I tried it suffered from the white grub. They made for the very best potatoes, too. And no end of appetite! Out in Greeley County, Coloradothe most famous potato region in loads are shipped annually, the best practice in planting is to use whole tubers-a thin slice having been taken from the seed end. One of the most uccesssul of the Greeley growers, by specializing in potato knowledge 334 bushels Seth looked carefully into the question of the size of set now that ordinary potatoes, "no talk of seed"-have gone
to over $\$ 2.00$ a bag. He finds from records of the South Dakota College of Agriculture that: pieces of large seed potatoes ios from per cent. higher than that from pieces of small seed potatoes. seed pieces was 70 per cent. greater than that from small seed potatoes. experience. results coincide with Seth's experience. But the question he has
had to answer, now that potatoes are so dear, is how big to make the sets. An experiment station of the United States Department of Agriculture gives the following figures as a guide.

Average Differences Per Acre in Gross
salable Yields from Different Seed Pieces.
Excess from use of
Two-eye
pieces pieces...........-........ 23 $\begin{array}{llll}\text { Quarters over two-eye pieces...... } 15 & 15 \\ \text { Halves over quarters }\end{array}$ $\begin{array}{lll}\text { Halves over quarters.................... } 15 & 15 \\ \text { Wholes over halves }\end{array}$

Seth has figured it out this way. If dime is scarce, as seems likely, he will plant whole potatoes. If he can find When fur cutting he will plant halves. uses whole poes are cheap he alway uses whole potatoes as seed.
last fall, Seth thinks, made the plants to more diseases than usual. The importation of potatoes from far off points, adds to the danger of disease, In cutting his more careful. more careful than he is going to be from the seed boxes all to remove look "off the mark," and to have a number of knives and a bath of bichloride of mercury (of the strength prevent to one thousand) on hand to prevent the transfer of diseases. Should will put that knife inseased potato he use another taken from the bath, and Time during the harvest
these parts will he so scarce a commodity that Seth is anxious to know where he can hire a pair of rose-breasted grosing the potato beetle birds are reputed to be able to manage an acre of potatoes, and Seth is going In lieu of the grosbeaks, which have never been known to come voluntarily
into these townships, Seth will resort mixture, mived and the good old Bordeaux 4 lbs. bluestune, 12 oz. Paris 4 lbs. lime, timperial gallons of water. Two applications of thic will suffice for the potato endeay lear of late blight Seth will digging time. Ifray every fortnight until August, during the period of excessive

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Frost \& Wood Mower cuts any crop. It won't fall you.


SPACE prevents reference to the many splendid features of the Frost \& Wood
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of the main drive-lravel in same direction of the main drive-travel in same direction -no tendency to fly apart, or to snap cogs
-no loosening or rattling of parts and connections, and the knives beoin to cut con first step of the nternal gear drive
means birst power.
work and longer life to the machine.

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Avondale Farm Second Annual Public Sale $\underset{\substack{\text { Avondalel From, } \\ \text { Brockrile, Ont. }}}{ }$ Wednesday, May 17th, at 10.30 HIGH-RECORD HOLSTEINS
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We are offering a grandson of this great cow from
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Thirty fine daughters of King Pontiac Artis Canada, who now has 32 tested daughters, two with
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Seven beautiful daughters of Woodcrest Sir
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29.12 and over 100 lbs. milk in one day, bred to sons of May Echo Sylvia. Many of the young ones are also bred to these two great bulls, one sired by K. P. A. Canada, the other, our "C
sired by the great 44 -lb. bull.

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These figures from the Purdue Experiment Station Bulletin No. 116, show the loss in butter resulting from not turning a fixed-feed separator at exactly the speed stamped on the crank.

And investigations showed that 19 out of every 20 separator operators thruout the country turned their machines too slow much of the time.

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is the only separator made which will not lose cream at varying speeds. The wonderful "Suction-feed" always feeds the milk to the bowl in exact proportion to the separating force being generated. At 45 revolutions it skims clean; at 55 it skims clean and at 35 revolutions it skims equally clean. No other separator can do it.

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Questions and Answers

> Veterinary.
> Embolism
> Filly now four years old that ha worked only one-half day, has show
the following symptoms for two years After taking a run she loses power of
one hind leg, sometimes the right one hind leg, sometimes the right
sometimes the left. At ere a few hour
sol she becomes apparently all right. There
is no swelling or visible cause for the
trouble. Would it be better to work Ans.-We do not see how you could
work her. The symptoms indicate embolism (a partial plugging) of th
illiac arteries. When at rest there sufficient room for the circulation but upon exercise the circulation in
creases, the blood cannot all pass the creases, the blood cannot all pass the presses upon the nerves and cause
paralysis. There is little probability of recovery. Try giving her one dram
of iodide of potassium three times of iodide of potassium three times
daily. If this affects the appetite reduce the dose to 40 grains.

> Chronic Suppurative Mammitis.
> Last summer, before farrowing, growth broke out on one mamma my sow. It healed and apparently got
all right. She will be due to farrow again on May 11th. Now there a smaller ones on her mammae. One raw and bleeding. Every little while
becomes like that and discharges becomes like that and discharges
bloody matter.
> Ans. -These are either abscesses malignant growths. It would be wise
to have her examined by a veterinarian to have her examine by a veterinarian the
as, if they be malignant tumors, the must be dissected out, and even at that a regrowth would be probable. To allow escape of pus, and the cavities
flushed out three times daily int flushed out three times daily un healed with a 5 per cent. solution
carbolic acid, or ore of the coal-t ar antiseptics. it is very. doubtful if the
milk will be healthful.


## ordingly



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## marian, and if his diagnosis agrees win

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