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LONDON, ONTARIO, APRIL 24, 1919.
No. 1387

## Beauly, fire-iresistance, Economy combined in this Roofing

MANY costly homes have been roofed with Brantford Asphalt Slates. Architects select these slates because of the artistic beauty of the soft, harmonius shades of reddishbrown and dark green,-which are the natural, unfadeable colors of the slates.

## Brantford Asphalt Slates

are made from a special grade of long-fibered felt which is exceedingly absorbent, so that it will take a very heavy and thorough saturation and coating of asphalt and on top of that a surface of crushed slate. The slate is roll ed into the asphalt while the asphalt is hot and becomes part and parcel of the roofing. It cannot be washed off blown off, or even kicked off by the the heel unless you use force enough to tear part of the asphalt with it.

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. Asphalt is one of the most waterproof materials kric wn, and Brantford Asphalt Slates being non-absorbent do not get watersoaked and rot. Neither do they crack, break'or fall off. In fact, they possess one great advantage over any other form of roofing material:- they cement together under the heat of the sun shortly after


Home in Kingoton roofed with Brantford Asphalt Slatee
they are laid, resulting in a solid pavement-sufface on the roof under which rain or snow cannot drive and no individual slates become loose or blow ofr.

Brantford Asphalt Slates are wonderfully fire-resistant and are approved by the fire insurance companies, being put into the non-combustible class. Fiying embers from burning buildings, sparks from threshing eaglnes of taikroad locomotives die out on Brantford Asphalt Slateso If a fire should start in an interior of a buitding roofed with them, the slates act as a blanket and retard the spread of the fire.

Brantford Asphalt Slates are modecate in cost, and are very rapidly laid because they are regular in size and pliable. They can be laid over ridges or curved surfaces, and every one is perfect. No knots or worm holes to look out for. No care required to avoid splitting them when nailing. And you can reroof an old building with Brantford Asphalt Slates without any extra bracing being required.

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## Brantford Roofing Cou.untas




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# The Farmer's Advocate and eraserver Home Magazine estanushe succeeo Hone Magazine 1866 

LONDON, ONTARIG, APRIL 24, 1919.
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## EDITORIAL。

Plan for a full silo next winter.

Spare the good dairy-bred calves; they will be needed later on
Grow plenty of roughage, such as hay, straw and silage. If anything must be purchased, let it be concentrates.

That famous trade mark "Made in Germany" will not help Germany very much in paying off her huge war debt of one hundred billion marks.
It may be more profitable to purchase fertilizers this spring than grain and millfeeds next winter. Figure the problem out according to your own circumstances and the requirements of your soil.
The committee appointed by the Government to consider the question of titles know full well before they hold a session what the Canadian people want, or more properly speaking, do not want.

The matter of probihition will come before the electorate of Ontario in the form of four questions, The ballot will consequently be rather confusing, and every voter should understand the ticket thoroughly before going to the polls.

With labor more costly than ever and the price millfeeds still soaring, meat animals and dairy product must remain high in price if production is to be main-
tained. City people are looking askance at the farmer, ut urban dwellers do not understand what $\$ 50$-bran
$\qquad$
$\qquad$ in Canada in order to safeguard the health of children.
It was found by thorough inveatiration in the United tates that even rats would not thrive on it; in fact,
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## Class Differences

The development of class organization is being carried to a greater degree day by day. This means that each class organized, according to occupation, is developing a deep consciousness of its importance, and is making demands upon other classes and upon the State that reflects beneficially upon itself alone, and with little thought as to how its actions will affect the neighboring Classes upon which it depends. Demands and counter demands are rapidly following each other. The question is, where will they lead?

In looking at the situation, it must be understood that rapid organization among certain classes recently has been taken in self-defence. Some organizations had developed to a high degree, and because of the lack of organization and united power in other classes, had been able to profit at the expense of those still unorganized. The situation we find to-day is but the result of action taken in the past. We arc, as it were, reaping the harvest.
We cannot to-day look back at the Government of Canada with a great deal of pride. If it had been government for the people rather than government for the classes we would have had a different situation to-day. Yet in this present day and generation we must look to the Government largely to meet the present situation. It is the only body we have that should truly represent all the people and all the classes. Yet we find it divided into factions representing the different classes. This is both good and bad. It is well that all classes should be represented in proportion to their strength and importance, but there is a tendency to legislate in favor of class rather than in favor of the State
What is needed to-day is a sane organization that would bring into it representatives of all classes, some thing that would break down the acute class con sciousness and bring all to a realization that each class is dependent upon the other; that as one class builds up wealth in huge quantities another class must suffer that each class is playing an important part in our services in a fair manner.
Unless at an early date there is serious consideration of these problems by the leaders of the different class organizations who should be endowed with national ideals and a readiness to re-adjust their demands accord-
in $\gamma$ to the best interests of the State, which includes all classes, then we may look for a continuation of the turbulence and unrest that is undermining the health

## The Labor Market

The lamarn in in a very peculiar condition have been discussing large appropriations for buildring and construction work in order to alleviate the unem-
plovinent situation. During all this time laborers have een clamoring for higher wages and getting them Farmers find it just as difficult to get help as during the worst years of the war, and viewing the subject from all angles, it is indeed a complicated one. We hear that in all the towns and cities there are a great number of men out of work, yet we know of many instances wher attempts to get good men who will work. On top of this the Minister of Labor says: "The unemployment situation throughout Canada is improving from day to there is unhappily an exodus, or 1 might term it a migration of soldiers who returned to that province. . . Only yesterday I received word that our rallroads west placed an application for a large number of laborers,
frost is out of the ground, they will want 10,000 men. That is going to absorb the large number of aliens who have found themselves out of employment, or have been isplaced to give employment to returned soldiers."
This seems to indicate that the price of labor will, at least, be maintained during the coming season. The effect of a high-labor market on agriculture is quite bvious. Farmers are purchasing larger and more labor-saving implements, with the intention of doing what they can alone on their 100 acres and by co-operating ore changing work with neighbors. While this may be the best plan, under the circunstances, for the individual farmer yet the effect on agriculture in general will be bad, for which the country as a whole will suffer. There will be a diminution in both area and yield of crops, cess live stock will be maintained, and production will be decreased in general. Food prices will, in consequence, remain high, and the laborer will be the greatest sufferer in the end.

Prices are still high all round, due, in part, to the abnormal demand for food, wearing apparel and building material, but it does not appear like good planning to endeavor to keep them high. We are not blaming the laborer in the least for his efforts to obtain a living wage, which the majority are barely getting now on account of the enormously high and increasing cost of living. However, if the strength of the labor organizations were directed to the end of reducing the cost of living the results would be more gratifying. Increased wages act ine a boomerang. They increase the cost of production, and thus strike back at the very man who was clamoring for relief.

Bovine Tuberculosis and its Effect on Trade.
It is not difficult to see which way the wind is blowing in regard to our trade in pure-bred live stock. All countries, provinces and states. are erecting barriers against tuberculosis, and breeders of pure-bred live stock in Eastern Canada who look to the United States, Western Canada or.even the local associations for business must recognize that their cattle will have to pass the tuberculin test.
The United States import regulations say: "Cattle wer six months old for breeding purposes and milk production shall also be accompanied by a satisfactory erriticate of tuberculin test (which test shall have been made within 30 days of the date of importation by a veterinarian in the employ of and receiving a salary Irom the Canadian Government, or by an inspector the Bureau of Anim ascription of the cate and ages and markings."
Western Canada is getting quite in earnest regarding this matter of tuberculous cattle. They are going to hook ion it more in the future than in the past that no thlecrculous cattle come into their country. Perhaps the Province of British Columbia is more vigilant in
this regard than any other, but the sentiment is strongly in favor of prohibition against tuberculosis. In the Eastern Provinces associations are purchasing sires on the co-operative plan. Many of these are assisted by the Provincial Governments, ard the demand is for tuberculous-free animals. We can no longer wink at this matter of tuberculosis in our herds and let it pass at that. Anyone desirous of building up a remunerative trade will have to maintain a herd that is free from the disease. We do not wish to imply that our pure breds are tuberculous, what we desire to point out that we must take more precautions and have ample fore that they are not diseased. Just how far we can get with accredited herds, it difficult to say until a clear statement is made by the Government and the Health of Animals Branch outlining

THE FARMER'S ADVOCATE

The Farmer's Advocate and Home Magazine.
THE
me, 'Tommy, we'd better be cuttin' doon some o' those
big elm trees back at the edge o' the clearin' an' takin'
the branches hame to feed the coos.'
"So I took my axe and went back to where the trees, 'So I took my axe and went back to where the trees,
were an' went at it. Those auld elms were unco'
tough, to say naething aboot tough, to say naething aboot the size o' them. It used And then it was trim it up an' aray the branches hame for the cattle. We used to dae that in the mornings
when the snaw wad be hard wi' the frost. "But that got to be ower muckle like wark to suit my idea o' things, so one day I got ma young brithers with
me an' we shovelled oot a road clean back to where the elm trees were, an' then we made a kind $a^{\prime}$ a yard that
I thought wad be handy to get to wi' the brush that I I thought wad be handy to get to wi' the brush that I
trimmed off the trees. Ye see, my idea wis to bring the coos to their fodder instead o' carrvin' the fooder ta
the coos: And it warked fine. Ilka mornin' we wad drive the cattle back tae the yard we had fixed up in
the bush and feed them their breakfast $0^{\prime}$ elm tops Then we wad leave them till alang in the afternoon, when we wad gie them anither feed. When they had
finished this we wad drive them back to the hro for the night. On stormy days we would leave them in the stable, as we had kept a wee bit o' straw in case o' an emergency, ye see. But I mind some o' my neebors that shine, for they hadn't as much feed in their barns as wor mak' a decent hens' nest. They'd a wee pickle hay for their horses an' that wis all. We used to think it little short o' a sin to feed hay to the coos in those days.
It wis the regular thing for ilka man that kept coos to It wis the regular thing for ilka man that kept coos to
hae a couple or three o' them 'on the lift' every spring It took a coo wi' a strong constitution to come through. the winter wi' oot bein' the better o' a little help when it
came to gettin' up in the mornin' esperially on towards came to gettin up in the mornin', especially on towards
the spring o the year. I mind when it used to be the regular thing for one man to ask anither, when they met 'weel, are yer coos strong this spring?' Instead o' sayin',
as is the fashion noo-a-days: 'are ye recoverin' frae the effects o' the grippe
"But the year o' the deep snaw there wis lots o' cattle came through the winter in better shape than they ever
did before, or after, for the matter o' that. The scarcity o' straw an' all kinds o' fodder wis a 'blessing in disguise',
as they say. There's naething better than elm branches
 accredited herds so long as tuberculin can be obtained unscrupulous breeder can render animown fact that an est for a period of approaching 60 days by the use of sider the accredited herd system if breeders will con deserves until such time as they are not robbed of its advantages by the free and unrestricted distribution of tuberculin.
This is a subject to which breeders should give very
honest and serious attention, for tuberculosis is becoming

The Year of the Deep Snaw

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 luet bit hack ward hik and ant be wan thin In the lart pretty close theses daus, i, iult it
 Theot hat initro' the deep saw, that
mer ther o this society they hae, in some 0 the cities
for thention o' cruelty to animet a pimple or a scratch on yer horse they'll. Gin they see an' "fined.", "Weel , returned Tomae ye arrested right direction onyway, and "they're headed in the owner as muckle guid as they do his horse. They mak' him stop an' think for one thing, and sometimes that's
worth a guid deal. He'll mavbe come to that it's himsel' that is geetin' the warst o' it ilks itand he abuses his horse or his cow, and if onything will keep him straight that should. As I've heard it said Sae there ye are. If ye want a certificate o, his beast.'

Social and Anti-Social Activities.

## A business motto that has been very popular in recent years runs as follows: "Every man for himit

and it is argued that if every "Every man for himself:" interests, the interests of all will be looked after. Fortuncorrollary, is seldom quoted: "The devil tale motto, its and its moral character an would be open to suspicio were quoted so it is customestionable if the corrollar o assume that the policy of selfish ind it unsaid, and in fact result in "The greatest good to the greatest The fallacy in this argument will become more apparent if we examine the nature of the various more cupations in which men engage. The farmer, the carpenger, the machinist, the teacher, the artist, are all engaged in occupations that are socially helpful. In so beeve, or produces milk more cheaply, he augments his time he confers a greater benefit upon his at telle same or example if he can breed and feed high-producin cows he increases the supply of milk available for conin like proportion increases his own income same, and ter by skill, intelligence his awn income. So a carpenmore than the average of his fellow workmen, and is all such paid in consequence thereof. And so it is with welfare; the mrre the individual makes the more he contributes to the welfare of others. Such occupations But there is another and very different type of vocation. The burglar may, by dint of ingenuity, hard But in the degree that he augments his own income diminishes the welfare of his fellows. He is engaged in an anti-social occupation. So the sharper, the liquor expense of others. The more they themselves at the the less there is for the rest of humanity. Such occupations are sometimes called parasitic, which is a
very suitable term, because the parasite grows fat as Now it so happens that most people's activities engaged in a social occupation when he grows wheat occupation when he operates as a land speculator and farm. In the latter case he is taking for value of his others earn, just as the burglar or the swindler. Moreover when prices rise owing to drought, accident or war, of other's needs or misfortunes be conscious of any wrong doing and canmet may not avoid taking what the market offers. At the same time he cannot get, or should not get, the same satisfaction of wheat crease in the price of wheat due to the sinking wheat. The increased vield represents ain yoth to him and his fellows: the increased price represents gain to him and loss to his fellows. The same holds good of practically all occupations. A terrible epidemic may place a doctor in a position of affluence; litigation
het ween friends may put money into the lawyers pocket, war between nations puts money into the coffers reate an unusual demand for bricklayers and carpenters, and increase their wages. It follows, therefore, that eetting prices enhanced by social disasters. The insocial in some of his activit. Everyone is probably antiTone is to minimize such and maximize best that can be 1es. This can be done both by deliberate choice on the part of the individual and by such social action
(or legislation) as will hamper anti-social conduct and Price enhancement may be due to drought, sickness welfare. It may also be due to legislation. A
protective tariff, for example, enhances prices: if it did not it would not protect. Does it thereby encourage anti-social conduct? I think it may be fairly maintained
that it docs. It shuts out competition and competition that it does. It shuts out competition and competition
regulates prices in the direction of fairness, though it cannot prevent the effects of calamity. If, therefore, onduct and discourage anti-social conduct, protective



Altor seme ssem of rop roation and nule it is


injurydone by his dog killing sheep is obliged to destroy one end and a door in the other. All three cabins illuhis dog within forty-eight hours after such notice and of the dog or dogs is not known, then the nan suffering loss may collect compensation from the municipality in which such sheep were killed, injured, terrified or worried. In order to collect compensation from the be made within three months after such sheep have been killed, terrified or worried. The amount of dam age is determined by sheep valuers appointed by the local municipality. The sheep valuer must be notified He then makes full investigation and reports damage to the clerk of the municipality and at the same time lorwards a copy of the report to the owner of the the appointment One clause in the Act provides for an investigation of a competent arbitrator to make the local sheep valuater is deemed inadequate. If the sheep are killed or injured while running on any high way or on enclosed land, the owner has no right to While the rorn a municipal corporation. forthe loss of the sheep killed or injured it is not alway possible at the time to ascertain the amount of damage done the remainder of the flock by being chased and frightened by dogs. However, the present Act gives a fair degree of protection. Sheep owners living near smal towns or villages usually suffer more than those
who reside in more remote districts. If more of the
apparently homeless and low-bred dorc of our towns and apparently homeless and low-bred dogs of our towns and
villages were destroyed, there would be less damage to villages were destroyed, there would be less damage to
sheep in the surrounding districts. It is very often the town dogs which do the damage, and, their owners not
being apprehended, the township the breeder for the loss of his sheep. There are some who would go so far as to destroy practically every dog. However, this might be carrying it a little too far. There no place, however, for the cur: he is of no use to man or beast and simply eats his head off and gets into all
kinds of mischief. It is the idle dog which does the damkinds of mischief. It is the idle dog which does the dam-
age. The Collie, Airedale, or some of the other breeds, are seldom accused of molesting the flock. They may causing the least disturbance in the flock. It is not
likely that such dogs would commit any depredation when out by themselves. While a few breeders do
suffer each year, they are comprativer with the number of sheep breeders in the Province. The owner of a good dog is quited willing to pay the tax
imposed by the municipality and to keep his dor housed

## Portable Hog Pens


great event. On the first day of the Congress the cattle
were judged by Prof. Day, Secretary strated give satisfaction. It is just a matter of which were judged by Prof. Day, Secretary of the Shorthorn
type the breeder prefers. At Weldwood Farm we have used the A-shaped house, and one somewhat on the upon the winners, so close was the competition to decide style of Figure 3, except that the roof is not hinged. excellent paddock in which rape or clover is grown is an The brood sows require exercise and green feed, and Considerably more economical gains can be made by
growing the pigs on pasture little grain, than when entirely pen-fed. If a pig paddock is not already provided on the farm, an acre and growing pigs. One or two of the pens herewith illustrated will provide shelter for them. The beauty of these pens is that they are light enough to be drawn Hom place to place and are serviceable the year around.
Hogs do not require elaborate quarters, provided they are dry not require elaborate quarters, provided they amount of warmth during the winter, but if their pen will not suffer
 upon the winners, so clos
bulls, J. G. Barron won
known to many known to many of the of Saskatchewan, was second breclers. G. W animal particularly smooth bull with ciovernor Butterfly, Carlyle, of Alberta, with the two-scar-old and condition second with Rector. R Miller Bros., of Class for S. G. went to the top in the senior yeright, of Saskatche Ont., an imported bull. His nearest compuetitor with Clarence,
Wonder, contributed bulls sold for $\$ 700$ by Sharp Bros., of Alberta. Both
bont championship was awared to Myrtle Beau, and grand well-fleshed youngster which headed the june deep-set, calf topped was contributed by J. B. Davison. This reserve junior champion and went land's Delight was the \$755. Augusta Star was the senior champ hammer at for \$625. McMillan Bros., of Manitoba, were fold
well-fitted cow with splendid lines. She realized $\$ 1,225$ in the sale. Second place was won by Royal Minnie, a She went under the hammer at $\$ 1,100$. P. Talbot \& Son, of Alberta, topped the two-year-old clabsot wid of Claremont, were first in sold for $\$ 600$. Miller Bros. Lady Lancaster 16 th in the senior yearling class with with great depth, which brought $\$ 3,000$ in the individual second honor was won by Miss Clara 2nd, a strong heifer with a good spring of rib. Dale's May, the highest class and was junior champion. The Lady Lancaster cow was senior and grand champion. The Lancaster
cow a list of the animals sold topether with name of fure chaser and price paid: Lancaster Champion, M. R. Zentz, Cando, N. D... $\$ 1,000$
Dale Secret, W. J. McFadden, Methyen


Fig. 1-A-shaped Hog Cabin
Count Cumberland, J. E. Mann, Bangor ........
Augusta Star, Ed. Jameson, McAuley
Coral Chief, R. J. Huxtable, Conquest Governor Butterfly, F. S. Shaw, (iainshor
White Coral, A. J. Quigey, Sintaluta
Prince Coral, Marius Maire, Dumas
I ovely, Prince G. R Shermen Lovely Prince, G. R. Sherman, Bienfait
Rector, P. MeKay, Swan River
Fector, Sort, Ed, Nuir, High Bluff
Sotland' Delight, A. Me Manes, Alexander
Roval Heir Lioley. Bros Monit Stons Pride, W. J. Renton, Deloraine
Roselpul Choice, A. Riesea, Qu'Appelle
Myrte Beau, J. G. Clark, Clark Manor.

## ollege White, Alex. Currie, Cando, N. D). Gootish Mint, H. C. Waston, Oxtoon


Fromed Emblem, A. L. Hill, Red Jacke
Cows and Heifers.


Shorthorn Sale and Congress at Brandon.
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THE FARMER'S ADVOCATE
food are insoluble, and can be but slowly brought into waste these materials, and it is only hy practicing cannot waste these materials, and it is only by practicing good
methods of cultivation that we can render them avail able. To bring this about is one of the great functions But eve ghe mate
ble even when we have plowed down all the vege to bring into an available form enough of these mineral plant-food substances to supply the needs of the crops Farm-yard manure supplies some of these desired sub
stances; it stances; it also contains much vegetable matter and
is loaded with germ life so that it the soil and thus helps to bring the stores of minera food into an available form. Yet, even the manure and the food got from the soil constituents may no
furnish all that is required furnish all that is required to produce maximum crops.
Naturally the stable manure is applied for the root and corn crops, because these are the crops that take up large amounts of food a and the lighter-feeding ctops
follow later in the tor follow later in the rotation. Even in this class of farm-
ing and when fairly large quantities of manure are made
and Ing and when fairly large quantities of manure are mal
and applied, supplementing with special fertiliz
constituents may be decidedy
 and phosphates to turnips usually gives good results.
At this season of the year At this season of the year the judicidus use of nitrate
of soda on fall wheat may be found norfitable Much of the heavy land of may be found profitable. Much
use of phosphoric waid. province will respond to the
usid. Possibly it would not be far wrong to say provided a rotation is beuld not be far
that makes it pollowed that makes it possible to plow down considerable
vegetable matter, thus getting a fair amount of nitrogen,
and that the soil is not spent on phosphoric acid is is surer to to give that mpontabey
returns in inoreased production than any other fortilizer returns in increased production than any other fertilizer
constituent we may purchase.
In the In the case of market gardens and fruit growers,
where heavy feeding crops and crops of the are grown year after year on the same land same the use of
fertilizers is more necessary. Even if stable manure can be procured in absundance, it it in pobabbele that a
better qualily of material would be grown if a partial
substitution wit substituation with material would be grown if a partizers was made. If, however,
this is to be done it is essential that the grower be familiar with the functions of the various prant-food
constituents and the different forms in which they may constituents and
be urchased
In general
In general, we may say that nitrogen forces leaf and
stem growth and retards maturity; phosphoric acid
particurly particularly aids in the formation of the seed and forces
maturity, while potash is more especially essential for
all bir

 the crop by forcing the growth would probably destroy
not ripen phant that would
cut it off wat litte fruit it did set before the frost
 inf We have comparatively little information on the influence of mineral fertilizers on the quality of garden
crops, but it is probable that in these crops, as well as
in many essential ash constituents may very materially ity of of celaryty of the product. The poor keeping quality
dressed with pothich was fornerly very
drawily point. Schriciner's studecs on the cinfuense of a case in
hunger in potatocs and the possibilitity of malnutrition caused so much trouble the last year or two may also
be cited
Nan Many people imagine that a simple chemical analysis
of a soi will furnsin the information required to de- de-
termine the kind and ainount of fertilizer that may ho



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CANADA'S YOUNG FARMERS AND FUTURE LEADERS.

Don't Disparage Your Job
Editor "The Farmer's Advocate":
This question of how to keep our young men fron leaving the farms is a problem which as yet has not been solved, as they are daily flocking to the cities. The lack the modern conveniencen for this is that the farms city has. This is an inducenent and pleasures which the city; yet, if such a small thing as modern conveniences and pleasures, and I might add an easier way to mak
money, is taking some from our farmes, we tre mal better without those which it takes, for if their ided of life is no larger than pleasure and money they hav
lost life.
Every young man at some time or other has the Testre to do something great and good for the wor
That is, he has ambition. Given that ambition has to have something on which to work out that
ambition and where better than on a farm. But he does not see it that way and why Tho a farm. But he doe is this. Farming is not held in as high a social light it should be. I'll addinit there are somen epoplac whht take
the proper view of farming; but speaking generally and of people in general it is not held in as high as social scale
in cur country as it should be. True it is one of the
grandest and grandest and noblest callings but people do not see
it in that way. This I think is the reason our voung
itn The farmer has too poor a conception of his occupa-
tion. Ithink the idea is he has not much of a aob. Now this is a wrong idea and
the sooner it is cot rim of the thet the sooner it is got rid of, the better for what is more
natural thant hat our young men gei hold of the same
idea and subsecuuconly 1 believe e it is the purpose of the U. F. O. to raise
farming up to a higher level, but from the meetings I
have attended I have come wate that this purpose is being lost sight of by a desire to make
more are peopley e ein
more in life th

## but when it becomese our all we we, lose our life. When we ty of lat

$\qquad$ trary
$\qquad$
$\qquad$ be alle to say: I have had the best lifec that was possilile
right here on the old farm



Congeniality in Farm Life

farm, he is prepared instead for a
cial enterprise, or other city vocation cial enterprise, or other city vocation
The Junior Farmers Association defect in our e and interview the high school boards of each petition requesting and urging that they engage the services
an agricultural teacher. may make farm life more Moreover, the organization inspiring by establishing a Science Club Library in and
locality. I would locality. I would not infer that the majority of earh homes are without suitable reading material. Many educational variety, such as the ambitious youth of the to read, is often sufficiently expensive to prevent it purchase. Libraries are constantly being stocked with
cheap literature, fictitious truth, while the desired types are without an atom of at its best can only teach us a little of the English language, or excite our emotions; science books and ing, teach us practical lessons, show us a real beauty
in life and are in themselves tion which would enable even the pource of informa. son to work more scientifically, the poorest farmer's
his disposal money home and money with which he could beautify his "Man liveth should prevail vigor and longevity. The play spirit and ceremonies should be laid aside at times. Athiletic dress in old clothes be formed and the young fellows fashioned rough-and-tumble style once a week. The program should consist of running contests, tug-of-war
and wrestling matches, anything in fact, which combines physical activity with freedom from conventional ideas. for the bovs and girls by carefully studying theictory acter, and learning to sympathize with them in their ample and changing ambitions, by allowing them beauties and superior advantages of country tife. More-
over all parents or guardians should ability, bat nots or guardians should encourage sociThey should have parties regularly in their homes for becoming better acquainted would undoubtedly secur
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Make Your Calling Attractive improve rural conditions will result from the combined eflorts of the Junior Farmers rather than from individual
action; therefore, the initial movement must be to
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machine, litter carrier, etc., lighten the barn labor, and
ancrease the efficiency of farm operations, and the older increase me the farm more congenial and attractive to the young by installing such devices when financial circumstances permit. The same opportunity for increased efficiency exist this work can be performed by the juniors. If circumstances do not permit of a complete water system woodshed or kitchen and obviate the carrying of water o and from the house; install a cumb waiter and far every little item wanted from the cellar. Investigation along these lines will reveal to the young farmer numerous ways in which he can lighten labor in the house, thereby providing more attractive surroundings
for the women folk. The use of obsolete methods and machinery in farm operation, and the absolute unhandiness of many farm homes is largely responsible naturally wishes to be modern and up-to-date, operating in convenient and efficient circumstances, and if rural onditions do not permit of this a fresh field of activity oung farmer should remember that rural conditions will be naterially improved when agriculture is properly recause "Dad" does; support an organization that proposes to have the industry represented by its followers and test the theory that a farmer could better legislate for agriculture than a liwyer or physician. cultural world, if you would have your calling and surroundings attractive, organize and co-operate, provide
education and recreation, be modern and embrace education and recreation, be modern and embrace improvenents, remember callings, have your industry properly represented, adeavor to cultivate and observing and analytical many counter-attractions to the lure and lights of the Temiskaming Dist
Orthern Scribe.

AUTOMOBILES, FARM MOTORS

Cleaning Reflectors.
How can I clean the reflectors in headlights of
without spoiling the high polish, which is given them. Ans.-The reflectors of head-lights are covered with a composition that is very easily removed by rubbing
It is almost impossible to restore the polish to reflectors. By the gentle use of a cloth soaked with alcohol,
beneficial effect is sometimes secured.

Things to Do and Things Not to Do to Insure the Long Life of a Rope. 1. When taking it from the coil always remove it
from the centre by laying coil flat on floor with inside
end at bottom and pulling this end up through the 2. Do not drag the rope over the ground, over
sharp or rough objects. Do not drag one part of a rope over another part. acid is stored or where acid has been stored. The slightest trace of acid will shorten the life of a rope. up in dry places that are well yentilated. Large ropes 6 . When ropes are to be spliced or knotted follow 7 . Always buy good rope; it will pay you. Re-
member that human life and property are often jeop

The Vacuum System
There are three met hods by which gasoline is ted motor car . The simplest idea is that of gravity, the
gasolin tank cheng placed at some point in the car well
above the
 there is always the difificulty; that when the tank is
praction



 moking orent is away from dangers due to passengers
fadivy und the art turning over in a ditch. You can



of course, makes necessary a series of pipes. The ith At the present time the vast majority of better class cars are equipped with a vacuum gasoline system,
which makes use of a small tank, installed under the engine hood cover at a point above the carburetor. to the intake manifold, to the gasoline storage tang and to the carburetor. When a motor is in operation,
and the pistons are going up and down, their action calls of the pistons that pulls the gas from the fuel sumping wherever it may be located, into the vacuum tank There are two chambers in the vacuum system, the
upper one being for filling, and the lower-one for emptyupper one being for filling, and the lower-one for empty-
ing. There is a valve between the two chambers that closes when the suction of the pistons on the intake Of course, you are familiar with the fact that nature abhors a vacuum, and so when the vacuum has been This, in a general way, will give you fome the gas tank. regarding systems of gasoline feeding. There are very few things that can happen to embarrass the gravit method. If the pipe from the tank to the carburetor have to clean it out by airegn matter, you will simply other troubles that may arise can be easily remedied because the system itself is as simple as ABC. Whe your pressure method of fuel supply becomes difficult of operation, it might be well to command the service easily cared for.
the main things to remember about a vacuum tan are these: when a leak occurs in the outer wall, a simple job of soldering will restore matters to normal. If you
find a leak in the tubing, either put in a new part, or
have carburetor connection in the bottom of the tank thay become loose. It is an easy matter to tighten it up. It
will be a wise policy on your part not to tamper with the vacuum system until you are sure that the difficulty

Arrom experimental results secured at the Iowa Agricultural Experiment Station it was found that
with the continued use of purc-bred Guersey Holtein and Jersey sirea the frist reneration Heduchistein crease of 45 per cent. and the second generation 110
 A writer in ar recent issue of the Journal of the
American Medical Association concl lutes that "certified
 handled in the home, is the ideal sonlution of the milk pro lem, at teast as ar ars the delliate infant or invalid di-cussion of the properties of fraw milik and the altereration of some of these properties by heatinz the milk

Kentuperimental data from that 29 cows, collected in Kentucky shows that fat production declined on an
average. 1 pound and milk production 1.5 pounds on the by oestrum and a few increased slightly in mill anfected prodaction, while a a ew sensitive or nervons cows were greatly affected. One cow dropped from a test of
3.7 .in the morning, at the onset of heat, to 1.9 at night while the next day her test rose to 7.3 per cent of lat.

A recent writer in the Journal of Agricultural examined, contained llactic, acetic and class corn silage The crops and crop mixtures under examination from which first-class silage was secured and which showed an fillar to corn silage were as wheat Oats and peas in any proportion, oats, peas, mixture of alfalfa and wheat straw made silage unfi fo

Act to Regulate the Purchase of Cream.


Fairview Posch.
 Inechanism. Bear in mind that if "tick ling the system is doing its work, Should ocasaion arise to
remove the top of the tank, the utmost care must the xercised in replacing it at the ioint, from the very nature of the work required, must be air tight Some-
times a hole develops in the float. When this happens, bore another hole in orter that any gasoline inside or the
float mav te pourred out. Then solder un both holes float may be pourd out. Then solder up both holes
and test the float in water, making sure that the leak and test the float in water, making sure that the leak
has been repaired. Somet ines dust and dirt and foreign
 the feed pipe to the vacuum system. In order to prevent thoubte there is a sereen in the e accuin system where
the gasoline enters. It will be a good ide to clean this screen at frequent intervals in order that the passage
of the gasoline may not be blocked. It It it igh al liob be
 soren or chamois, when filling the storage tanks, or if
it is not posible to do this, make it a rule to clean out
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## THE DAIRY.

upplied to a facteryming the fat content of cream esting shall be weighed into a test bottle officially (2) Every person who makes a Bab ock test of mik or cream supplied to a factory shall proceed in
accordance with the official methorl and shall observe the details of making and re ding the test as set forth culture or revised of the Ontario Dep Act or who falsifies in any way, wates any provision of this reads the Babcock test, shall, upon summary coniction thereof be liable to a penalty of not less than
$\$ 10$ nor more than $\$ 50$. "5. For the purpose of carrying into effect the pro-
visions of this Act or any section of this Act according o their true intent, the Lieutenant-Governor in Council on the recommendation of the Minister of Agriculture
may make such regulations as may be deemed necussery advisable or convenient, and may impose penalties for the violation thereof, and such regulations shall have the same force and effect as if incorporated herein. of this Act shall be recoverable under the Ontario Summary Convictions Act." It is also proposed to change the legal standards for butter fat and total solids in whole mik, from 3 per cent. of butter fat and 12 per cent. of total solids to
3.25 per cent. of butter fat and 11.75 per cent. of total solds.
This Act may be said to be the direct result of work
done by the Ontario Milk and (Cream Producers' As sociation and is levelled at a few unscrupulous creamery operators who have been detected, during
the course of some preliminary investigational work,
regular method really shows. The Ontario Milk and
Cream Producers' Association first tests on behalf of certain members and found that
there was a variation eetwhen much as 3 per cent. on the average. Then ont of as tests were made by a Government tester at the instiza. tion of the Association and the result showed similar

## Rotation for Dairy Farms.

The principle of crop rotations is well grounded by
now in agricultural practice and it is al now in agricultural practice and it it almost common
place to seat that several coonomies are secured by the
adaption, in the growing of farm cross of a systematic rotatio saving, the control of weeds, the control of root insects and the maintenance of soil fertility, the advantage of so planning the crop area as to bring out the full
plant feeding capacity of the soil and amount of labor involved in keeping the minimize the is ery great. From the very nature of dairying,
rotation for dairy farms must, of necessity differ some what from that applied to mixed farms. A represent Macdonald Agricultural College Ste Ane . Quebec, and discussed this question with Professor
H. Barton, Chief of the Animal Hustandry De Professor Barton is also superintendent of the large farm at the college and because dairying is such a must be maintained. In fact, any large dairy herd on the farm must be such a one as would be suitable for a dairy farm, because of this fact practical turn to much gratified to note a decidedly rotations. So often one finds that advocates of the principle of rotation seems to leave the impression that if
it is not a cure-all for the ills of the farm it is at least something which should be adopted-rarely are we even toe peculiar conditionsted-on every farm regardless
of that may have to be met.
At Macdonald Collo very firmly adhered to it is true, but not with a slavish consistency which so often repels the practical farmer farm would appreciably increase thif applied to his soil, finds that while this may be tre the fertility of his increases his labor costs, or would force hime to rotation certain fields, crops that would be much more successful College ere. Actuat experience on the farm at Macdonald College and a careful study of the principles of farm
management have taught Professor Barton that the size, shape and soil of the farm and the Berton that the aviza, shape and the charaterer of the seasons must, lall be
considered before a dairy farm may be intelligently operated under a system of rotation. rotation,", said Professor Barton, "is every dairy farm possible amount of coarse feed. , A dairy farm is is reatest
ily a live-stock farm and the amount of orughare is rally the one factor which limits the amount of live stock that can be kept on the farm. We have recently
had figures made public which substantiate had figures made public which substantiate markedly
the time-worn statement that live stock is the bulwark
of agriculture in Canal of argiculture in Canada. hat live stock it the bulwark
recent results of farm survers only to refer to the Ontario, to see that to a far greater extend than upon,
grain crops the labor income of a farmer depends upon
quality and numbers of live of grain crops the labor income of a farmer depends upon
quatily and numbers of tive stock he is able to raise.
It it for this reason then, that when planning a system
or systems of or systems of rotation for a dairy farm, one must ever
keep in mind the dairy cow and her position of funda-
mental importance in the farm schence. With this da a start it is easy to anrive at the schenclusion What this as a
must form the hage
basis of the feot of the rotation, just at ous is the silage, clover, mixed grain and roots, roughage 1 mean order of im-
portance. I an not in favor of growing large acreages
of grain on dairy farms, for the reason given aloove. of grain on dairy farms, for the reason gicen aboce,
naminely, that every additional field of grain limits the
amount of live stock that cann be raised, Hecause it
leaves that ive leaves that much tess room for roughased we thatke the
ground here that she diary farmer can buy fertilizers
more cheaply in the form of teed and oil cake than in the form of artificial fertilizers.
This is not to say

| 1 |  | tinuous. | tion | tinuo | tion |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bush | Bushels | Is | Busthels |
| Ont | Oats | -2828 | 31 | 20 | 28.0 |
| ch | Wheat | 10.1 | 93 |  |  |


 e period, while with one-third than during "Thest as compared with the first per acre e bushes per acre during the first averaged thity while the rotated crops the last, a gain of two bushels luring the first period and forty-eight bushels bushels o continusously-grown crops, while plied directly to the only what the corn had left, no manure being applied
directly to the oats grown in rop bushels cer acre dury-grown wheat averaged sixteen three and a half bushels during the last, while the twenty first period and twenty eight half bushels during the reacr case the continuously-grown cropg the last. five years brown in rotation during the fred解 the twenty-fivemer parts of the land in this experiment received imilar outcome, showing that while the yield with a maller grains at least, may be maintained under conthe cost of doing so bi very of fetilizers or manure, ame crops are grown in rotation with clover when the
 rotation corn followit of grown alternately

Purchased Feeds Valuable for Fertilit
of cropping will be determined by latitude, soil sydaptain which corn condinons. Throughout the territory being increasingly employed, a fact which is shown region of Wisconsin. (Exactly the same is true in better adapted sections.-ED.) Corn is not only in the silo, but it may be other crop for preservation. the season is too short to fully mature the gens where continuously begins to diminish in yield when grown - not an economical feeding-stuff. Moreover, corn alone is produced there must be clectiveness of that which well as on the grain farm, in which some of the legum titute sile years there has been a tendency to subdairy cattle, because of the facts that more feed per and that less labor is involved in the handling of silage willing to be at the additional labor involved in the green feed to begin on very early in the spring. this to supplemented by alfalfa, red clover and Canada peas, alfalfa again, corn and finishing with rape, thus making well-ation and of furnishing constant mulust the remembered is run for silage or for soiling Ian any other form, is more exhaustive of soil fertility of phosphorous and calcium be met the time will come, sooner or later, The milk from an average the demands made the farm in a year practically as much phosphorus

Fornee hundred and seventy-five
 lased on This calculation, it must be turned to the land, and on the carefully saved


ApRIL 24 hard for legislation to take care of this difficulty and after several disappointments are securing it this session. is not necessary to regulate the dealings of legislation violation of the Act and to secure also some definite por ers and most of the creamerymen. It is alway farmviolation of the Act and to secure also some definite pro- unscrupulous men who make legislation necessary
nouncement as to how a cream test should be conducted. for us all. cream test should be conducted
for us all.
when the fact is that if the dairy farmer depends wholly upon his own ralm as certainly, and almost if not quite as rapidly, as the

## HORTICULTURE

In growing beans in the home garden earliness is
actor. Some risk of frost is, therefore, worth while
Spraying for oyster shell bark louse is much more important than many people seem to think. This
orchard pest will kill trees just as well as San Jose scale, but it takes longe

Be sure the spray outfit is in good shape befor
starting in. It may save many vexatious delays
Moreover, don't skip any more sprays than you are Moreover,
No time should be lost in getting early cablage
plants in the field when the time arrives. If the plant plants in the field when the time arrives. If the plant
have been well hardened they should stand some sever
cold in the field-as much as ten degrees below freezing Asparagus beds should not be cut before the third
Ond yeds are sometimes cut for as long as 8 or 9 weeks although 6 or 7 weeks is the usual period. Cutting
hould cease whenever the shoots begin to show weakness A strong one-year-old crown is superior to olde
crowns for asparagus. The richest soils are necessary to grow good crowns in one season, however, and se
should be sown in the spring as soon as the ground can be prepared. Thinning is frequently

At Illinois experiment station no marked dir ference was observed in the growth of trees propagated
from robust scions and those propagated from scions of small diameter. It was found that there was no
differeace for propagating purposes between buds of large size and those of small size. Neither does it
matter apparently from what situation on the tree the buds are taken.
A study of the wholesale prices and receipts of
apples on the Boston market for the past 36 years apples on the Boston market for the past 36 years
shows that the last ten-year period shows a slight varieties show a decrease in price for the first three periods, but with a marked increase during the last
ten years. More than half the apples are received during October and November, and receipts are heaviest At the Missouri experiment station it was found, when conducting fertilizer experiments on eight crops
of lettuce and four crops of tomatoes and cucumbers, that "acid phosphate, the only commercial fertilize when used alone, gave a very consistent increase of the lettuce crops in every case, except where mulched
with straw. Similar results were secured with tomatoes

Grading of Potatoes and Onions
 given to the question of onion and potato grading
Many large marketing organizations have recommende that steps be taken to have legislation passed which will render compulsory the grading of these commodities
Individual growers, as well as wholesale dealers, hav made similar recommendations. During the fou Agriculture, to whom these suggestions were made the production of vegetables in order to save wheat,
rather than do anything which might have a tendency question of compulsory grading has been left in abeyance put into effect, and were enforced by the Dominion
Fruit Branch during the past season. These were satisfactory as far as they went, but as they affected
only shippers who graded their potatoes No. 1 or No. graded stock, the benefits resulting from the syste were of necessity limited. With the cessation of hostili eavoring to adjust themselves to the present era o reconstruction, the question has again presented itsel
and must now be carefully considered on its merits. Looking at the matter in a general way, primary would result from legislation compelling growers an shippers of potatocs and onions to grade these com-
modities in accordance with Government standards. The greatest of these benefits would probably be the uyer and stller. In whe past there have been many tions on account of decclining markets; the result has Consignee, has been obliged to accept a lower price it There have heen probably as many instances in which
n order to effect a satisfactory adjustment negotiation similar difficulties would be greatly lessened by a system
spection.
The marketing of very small and inferior potatoes and onions would also be prevented and a large quantity
suitable for stock feed, which should never leave the farm, would thereby be kept out of our large consuming however, that requests have been made for provision, in the wording of the necessary legislation, for the
marketing of new potatoes during the months of July and August. There is a considerable de and for thes missible in graded stock. Compulsory grading would

succeeding year. Before any steps are taken in the direction of legis lative measures, and before definite grades are defined obtained, and every consideration given to the whole Dion C. W. Buppont.
Department of Agriculture, Ottawa

The New Strawberry Planting ruits both as to its one of the most cosmopolitan of and its climatic adaptations popularity for table use considerable hoeing and cultivating, its chief disad-
 of labor necessary to ensure
the best growth of plants other hand, the strawberry casily cultivated, requires good crops, and when good
crops are produced they usually show more than pecially true at this is es the reason that the acreage
under all small fruits has fluctuated very markedly during the last few years,
with a general townward tendency, so that prices
have been unusually good. forget that labor, boxes, etc., have also risen in price but we believe it to be
pretty generally true the ttwater, Timiskamin so situated as to get what present time, for instance, Canadian potatoes are labor they need for cultivation and harvesting, shipped in large quantities to American markets and $\quad$ strawberries have been a very profitable crop.
to the West Indies, and come into direct competition
Soils for successful strawberry growing may be of with United States potatoes which are competition has, in the past, affected the sale of Canadian-grown accept proportionately lower prices than those paid to In order to obtain an expression of opinion upon the subject of compulsory grading, the Dommion Fruit leading shippers, associations and wholesale dealers in Canada, pointing out to them the possibility of legislamany, and the expression of opinion has been prac tically unanimous in favor of a compulsory grading

be, or until the plants
begin to suffer from
ack of sunlight. What
ever soil and location is chosen, care should
be given to the matter of drainage and moisture in the soil. Straw quantities large especially during the harvesting season which is often dry; therefore, be of such no surplus water which will preven early growth in the
spring, but will, at the spring, but will, at the
same time, hold wate Spring planting i recognized as most
desirable, and where a commeciar field i preparation, especially in sod, will be of grea advantage in putting and freeing the land
from weeds by the cultivation of som hoed crop. White gru system. The proportion of dissension has been only berry pest, and is usually much worse in land that influenced by purely local conditions. It is, therefore, evil that sod lands that have been down longer than quite apparent that the introduction of compulsory
grading would meet with general approval in all parts not recommended. Manuring for straw
berries can be very heavy, but it is much better if the It is intercsting in this connection, to refer briefly land is in a natural state of high fertility than if ver manure are applied especially for to the history of the Fruit Marks Act, which was intro- the strawberry crop. In such cases the manure should duced into Canacta at a trie Wuring the packirg was years the improvement in the grading and packing of time the enforcement of the Fruit Marks Act consists largely of maintaming the high standard of grades of these laws. It must, therefore, be expected that the
grading of potatoes and onions, while of immediate
be applied in the fall so that it will be well rotted by spring. Manure should be well incorporated into the a state of tilth as it is practicable to get it. the plants set by a man and a boy, or by men workin in pairs. It is, of course, not necessary to mark deeply
but the rows should lee straight and well defined but the rows should lee straight and well defined. The
distance of planting varies according to the ideas o
growers, but is usually from three to four feet between
 and this is the common commercial sstem-some soils
and varieties will make very much hewier rows than others, so that more space must necessarily to aim at the larreest, itsis, we consider, good practice have them so far apasit , number of rows and not much finerm from the autside of the rowtres are the wisually
 the distance betwen plants. in the row from eighteen
inches, formerly a very our or thirty inches. If the distance, to twenty ways the plants will be set in in foem bis both wayseds, out both this
 ie season. Anything which will decrease the amount hand labor necessary will naturally tend to add to laterly yis babout of orty ine inches. A between eommon dows, and plance wenty-four inches in the row

> Something should be said, perhans, for the system
planting strawberries in lills. This is especially true in regard to plantitisy made in the homespecaraly
but we are inclined to believe that then hat we are encined to believe that commercial growers隹 matted rows. The advantage of hill planting tios in the increased yields that can be obtained and its
disas vantage in the increase in labor reouired
Only disad vantage in the increase in labor required only a
very few commercial growers have tried the hill system
 planting would only be warranted in the case of small growers or market gardeners living adjacent to tood
morket
of lowns and cities, on whose farms a of labor isus. sed on contites on whouse farms a great deal us that hill planting has merits that have not been
sufficiently investigated.
Certainly, in the home garden, where qualitit need not be sacrificed in any way
Por ouantity or quantry, strawberries in hills should be the method
followed provided that the runners are kept cut off and the , provided that the runers are kept cut off
inches ground ewal ted and cultivated. Hiils 12 to 18 inches apart each way, in good soilh will produc
surprosiningly large amount of fruit of hish ouality surprisingly large amount of fruit of hish quality.
plants thever the method of planting, only the bes

 and have lost their vigor. Extremely young plants,
formed at the lasto of the previous season have not
dever
 healthy root is the best reconmendontaion and vigorous, plant can have. Atter being dus, the plants should
not be allowed to witt, but should be set at once or at the eariest possible moment after removing all but
two three leaves, and shortening the roots from a
anate tot two orer triee teave tird
quaritites of str
the chief variet eies found in com very numperous, but
comparat

 District, where strawberries are grown in largest magan
 or green top which is very conspicuusus, in tha condition
the variety is usually marketed. Senator Dunlop is












Seed Sowing and Early Care of Vegetables




## and the plant will stand considerable frost without serious injury. . Other vegetables such

 cauliflower and celery will also stand frost, but these are usually started in a hot-bed in order to save timein the feld in the fied. Vegetabes which require higher tempera-
tures than the above in order to are injured by light frosts are beans, cornn c cucumber melons, potatoes and squas
 be sown late when fret, and sured for or the tavede turnip should ootain plants subject to light frosts, which are well
advanced bef time the field mel mengs, eet out and to save considerable peppers and tomatocs
are gemination of seed is blamed on or thequently lack of seed, whereas it may be due to the way the seed is
planted or to the rotting of the seed in that Certain kinds of seed have been sown too early. Small
vegetable seeds are often planted nuch to Vegectate seeds are ot ten planted much too deeply.
For the ssaller seeds one: पuarter of an inch for the smallest to one-half of of in inchart tor those an a ilittle larger is deep enough. If planted much deeper the seed gray
germinate, but the shoot dose not germinate, but the shoot does not reach the surfarec of
the ground and the tiny plant dies. Peas, corn and the ground and the tiny plant dies. Peas, corn and
beans are planted about two inches deep. In very loose soiss the surface of which dries down more than those
fairl con When the seed has germinated great acere should b b alen to ventuate hot-beds careftuly, When the young plants come up, the trame should be kept sufficiently
aired by faising the back or hiobler prevent the plants from getting spindly or sish to when they are apt to damp off. When young peants,
are grown in a window in A are grown in a window in a house they are often very
thick in the pot and, if in the sun and with the surface soi wet they are very liable to damp off or scald
They should be thined out and transplanted ace as possible. Great care should be taken when venti
 them. A board should be put at the end of the sash to break the force of the wind. cold ants which have been growing in a hot-bed or
open fraim or in the house stould be exposed to the open art ror several days before they are set in the field.
protecting them as usual at niety
 lialle to be injured in cold or winds weather. Experi-
mental Farms Notes.

## POULTRY.

Holding eggs for incubation purposes is a necessary If eggs must be held for hatching, they should be
kept at a temperature of between 55 and $6 \overline{5}$ dcgrees F.
 Washing hatching eggs incerases evaporation and
derfere is
not good practice, especially with art ificiai
 hat ched under heens, as comparect with thooe hat hed in
inculatotoss
 cockerel by its shape, The sexes come alboutt fily? As a rule the majority of clicks that aree alive at
the end of four weeks jormul hatching will

 price unless they are given a t in when en to matare high it
 Brooding and Rearing Chicks
infallible. Frequent cleaning and trimming of the should be turned down in the during May the lamp in the evening. In fact the Poultry De and up again C., Guelph, advises against the use of lamp brooder A great many peo chicks with broody hens because they find greator The follow in operating artificial brooders than incubators The following paragraphs are quoted from Bulletin
247, Ontario Deaprtment of Agriculture. ncubatore it is intended to use broody hens to rear three eggs out of the incubator about the the hen two or When the hatch in the machine is completed day. fifteen chicks and give them to the hen at night. Little take them even if there experienced in getting a hen to ed. Seldom will she take them satisf color representto her in the day time. Hens which are to be used given rearing chickens should be well dusted with good insect potent cause of mortaty in possibly no more poten lice. house the is a gooder can be plan, as the brooder a small portable heat later on. The winds in early spring; also from the weather better than a coop would, and serves as from the coop after they become too large to stay in the brooder This coop can be closed at night so as to keep out all is neoessat migh ent movable front is a great convenience when the hen is high in front, fifteen inches high at the coop is two feet feet wide by three feet in length. The wire portion difficult features chicks artificially one of the most try to keep the temperature of the brooder between 95 and 100 degrees (chick level) during the first week. good guide is to have the brooder just warm enough edges of the hover with their heads around the outside the curtain surrounding it. Be careful not to get the brooder too hot nor yet too cold, as either extreme is serious and affects the vitality of the chicks. This
is very important especially during the first two weeks.
After the first week Atter the first week the temperature is gradually lowered,
generally speaking about one degree a day. It is well to remember that when chicks are put in the brooder,
every fifteen chicks will raise the temperature of the "It is advisable to start the lamp of the brooder
about twenty-four hours before the chicks are put in. The floor should be covered with clover chaff or other never be used about or mouldy litter or feed should never be used about the brooder or pan in which young
chicks are to be placed. mooder for drink before the chicks are taken from the machine. It is advisable to supply some fine grit or
coarse sand, preferably of a bright, shiny appearance."

A Colony House for Chicken Rearing.
 plan very carefully before building. Permanent house are those built on a solid foundation, while movable called, are portable colony houses as they are generally readily from place to place on the farm by merely
hitching a team of horses or one ase may be. Portable or movable houses as the the runners on a stone along over the ground just as One can easily see that it is of great advantage to
have onc or more of thesc small colony houses, capable
of being moved from plo to provide free range in to place. It is thus only limited by the
size of the farm, and fresh ground is to be secured by no more effort than a few minutes' work with a team. particularly valuable as the fowls can be given the up and by fitting the chickens into a crop rotation in
this manner, they will gather up fairly large quantities of waste grain from the harvest fields and will destroy fertility to the soil they are working on. The latter
may not seem an important consideration, but the
ctay may not seem an important consideration, but the statement has been made, and we give it here for what
it may be worth, that the droppings from fifty fowls
will keep an acre of ground in will keep an acre of ground in a high state of fertility.
Another estimate is to the effect that a hundred fowls
running at large on an acre of ground for the summer
six months, should add to its frertility the equivalent of at least 200 pounds of sulphate of ammonia, 100
pounds of high-grade acid phosphate, and 60 pounds pounds of high-grade acid phosphate, and 60 pounds very real, and are particularly so for the rearing Some large poultry plants use portable houses for
laying stock, to avoid making the land foul by giving laying stock, to avoid making the pond foul by by giving
new range land every year. More hens per acre can

April 24, 1919
permanent house shoult not prove the most sati sactor
it it is properly located leav ing the portable house as
and best suited to growing stock that needs an abundance of

 of vigor. Where the larm possesses an or orhard, a
porabile house is a splendid thing and the orchard is unsally just the place for itt It can be drawn along the
edge and the growing stock, will have an abundance of
 bove, the outlay for these small houses is much less
han for larger and permanent oness and althoush permanent houses are desirible for the wintern loying
nonths the colony house can, if necessary be de dawh

 size for flarickennutions broier age. It should have a
 thickens are raised annually. Very young chicks can
le put in a portalile house if a good servicealle hover s. provided and by enclosing a small space outside control. Later, wire enting around the howse will hold
them until they are two or three weeks old when they fiem until they yre two or three weeks ond, when they

can be given free range.. The hover can easily be ree | placed |
| :--- |
| oroost. |

FARM BULLETIN.
Canada Will Spend 350 Millions This Year on War Account
 Prime Minister in favor of a resolution to provide
sum of 8350 Ono sum or year 1919-20
$\qquad$ miltary operations in or beyond Canada and demobiliza industry and transporctation facilities therefor; (d) the
carrying out of any measure deened necessary or ad-
visale by the Governor-in-Council in consequence
of the
$\qquad$
$\qquad$
1918, and in excess of the amount authorized by the
said Act." The (Governor-in-Council isalso cenpowered
to rase by way of loan such sums of money as are re-
quried forthe purpose of making any payment authorized
pal raised founded on these resolutions, and the princ

tund. Sir Thimas . White placed before the House a
summary showing the total war expenditures by de
de
















developed in this country," and further said, "the
hereditary peerage as an institution can find neither hereditary peerage as an institution can find neithe structure and social tradition such as that which now exists in Canada." During and since the last session of Canadian and Imperial Government on this subject with the result that in the future no hereditary title of honor will be conferred upon a subject of His Majesty titular distinction in Canada, nor will any honor except with the approval or upon the advice of the Prime Minister of Canada, military honors excepted.
After a great deal of discussion, in which quotation
from holy writ were thrown about most promiscuously an mo mo titles urge moved in be granted to anyone else, Sir Thomas Whit House be appointed to consider and report upon the
question of honors, titular distinctions and decorations both civil and military, upon Canadian citizens. B Minister was passed, and a committee consisting of Messrs. Nickle, Green, Peck, Buchanan, Clark (Red Deer), Thomson (Qu' Appelle), Cowan, Richardson Whidden, Nesbit, Middebro, Pardee, Cockshut, Murphy, McCoig, Ross, Ames, McMaster, Lemieux
borough, , was appointed.
The other matter of importance discussed was a Bill Railway Corthe incorporathich the Canadian Nationa undertaking of the under which the raiways, works an Northern System may be consolidated, and together with the Canadian Government railways, may be operated as a national raiway system. Hon. J. O. Rerd, Minister of having constructed the longest sentence in the history of the English language. Someone who has taken the trouble to work it out discovered that it contained 1,300 one lone period a very long discussion followed the noving of this resolution, but it was finally passed and
 the ire of the Minister during the discussion by referring somewhat disparagingly to D. B. Hanna, President of said: "I say that D. B. Hanna is an honest man, one of the straightest men in Canada, and if the honorable member will repeat over his own signature in the newspapers to-morrow morning what he has said here toJian Northern Railway Company, I am more than satisfied he will get all the information he wants, and will have no more trouble in so far as making statements or this kind is concerned. The honorable member has ed for political reasons. Two members of that Board were employees of the Canadian Northern, and I would ike to see any man in this House or out of it make any statement against the character or reputation of those ment that a member can reflect in this House upon the honor and reputation of an outside citizen and he cannot be brought to book for his accusations. I repeat that are honest and upright men. What will kill public ownership in the future, no matter whether it is Mr. fanna or any other man whom we appoint, is the action and character as honorable member for Pontiac has done. All I ask him to do as a man of honor, which I believe he is, is to state in the public press to-morrow
what he has said here to-night, and I will take a chance as to what will happen. For the most part the House is still marking time and For the most part the House is still marking time and
may be expected to do so until the budget speech is made. The really interesting part of the session will begin then,
and the budget debate may be expected to last fully as long as the debate on the speech from the Throne, notice will be given before he makes the budget speech so that members may have makes the budget speech prepare their ideas with regard to the future fiscal policy of Canada. During this debate we may expect
the majority of the members to take part, and it is almost certain that nearly every We West of course is clamoring for a lowering of the tariff wall, and while farmers in Eastern Canada may be counted upon to row at least, they are unfortnnate in having no members
in the House who carry a mandate to this effect, as do quite a few members from the West. Out of fifty-seven mentuers fom the four Western Provinces, about thirtyremainder some few to stand for low tariff, and of the These Western men have met their Western Cabinet
$\qquad$ perhaps only reasonable to expect that the Western
low-tariff men will have a minimum reduction which no one can say accurately at present, unless it be the , fre implements and The elle

amateo

$\qquad$ which they might make in the Dominion. So far the
French Government has not felt that it required Canadian credit. We entered into negotiations with Belgium
with the result that a credit of $\$ 25,000,000$ has been
arranged for under agreement. An agreement was also
 Thomas to say, however, that this arrangement held
good with regard to the purchase of wheat, flour and
bef ing money for credits. Sir Thomas said policy of providdoing to-day we shall not be able to continue to do. not be necessary, and retrenchment must be the order
of the day as soon as we get through the present trying grateful for in what Great Britain has done in a financial
$\qquad$ that He refrain from conferring any titles upon Canadian
$\qquad$
$\qquad$
$\qquad$
$\qquad$ fully and reviewed the history of the various orders of a monarchs. Following Mr. Nickle, a rather protracted
discussion was carried on in which quite a few members expressed their disapproval of titles, especially of the
$\qquad$ Robert Borden's action last session. He said: "My own
opinion is that titles are not good for the country, and
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Toronto, Montreal, Buffalo, and Other Leading Markets

Week Ending April 17.

| Toronto (Union Stock Yards) | $\begin{gathered} \text { Week } \\ \text { Ending } \\ \text { Apr. } 17 \end{gathered}$ |
| :---: | :---: |
| Montreal (Pt. St. Charles)... | 4,047 |
| Wintipea (East End) | 750 |
| Calgary. | 2,546 |
| Edmonton | 1,663 |

Receipts and Market Tops Cattle
Receipts

|  | Receipts |  | Top Price Good Steers (1,000-1,200) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week <br> Ending | Same Week | Week | Week | Same | Week |
| Apr. 17 | 1918 | Ending | Ending | Week | Ending |
| 4,047. | 5,857 |  | Apr. 17 <br> $\$ 15$ <br> 150 | 1918 | Apr. 10 |
| 547. | 788. | 488. | 15.75 | \$13.25 | \$15.75 |
| 750 | 610. | 614 | 15.75 | 13.25 | 16.00 |
| 2,546 | 1,406 | 2,700 | 15.00 | 13.20 | 16.00 |
| 1,663 | 1,122 | 1,601 | 14.50 | 12.25 | 15.00 |
| 496 | 240 | 562 | 1300 | 11.45 | 13.00 |

Dominion Department of Agriculture Livo
Stock Branch, Markets
Inteliligence, Diviloy CAL.VES

|  | Receipts |  | Top Price Good Calves |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | Same |  |
| Ending | Week | Ending | Ending | Week | Ending |
| A1,858. | . 2,141 | Apr. 10 | Apr. 17 | 1918 | Apr. 10 |
| 3,737.. | 3,083 | 2,932 | 14.00 | \$16.50. | . 918.00 |
| 1,750 | 2,484 | 2,478 | 14.00 | 12.00 | 14.25 |
| 66 | 63 | 83 | 15.00 | 15.00 |  |
| 14 | 27 | 65 | 10.50 |  | 10.25 |


| Week | Receipts | HOGS |  |  |  | SHEEP |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Top Price Selects |  |  |  |  |  |  |  |  |  |
|  |  | Week | Week | Same | Week | Week |  |  |  |  |  |
| Ending | Week | Ending | Ending | Week | Ending | Ending |  | Wrek | Week | Same | Week |
| Apr. 17 | 1918 | Apr. $10^{\circ}$ | Apr. 17 | 1918 | Apr. 10 | Apr. 17 | Week <br> 1918 | Ending | Fnding | Week | Ending |
| 7,552 | 5,830 | 7,870 | \$21.50 | \$20.50 | \$21.25 | Apr. 423 | 198 | $\begin{gathered} \text { Apr. } 10 \\ 579 \end{gathered}$ | Apr. 17 | 1918 | Apr. 10 |
| 2,018 | 1,274 | 1,223 | 21.25 | 21.00 | . 21.00 | 127 | 28 | 579 | \$22.00 | \$21.00 | . $\$ 22.00$ |
| 875. | 777 | -896 | 21.25 | 21.00 | 21.00 | 127 | 28 | 88 | 16.00 | *14.00 | 16.00 |
| 2,906 | 4,406 | 5,283 | 20.50 | 19.75 | 20.25 | 100 | 25 | 83 | 16.00 | *14.00 | 16.00 |
| 1,502 | 2,492 | 1,880 | 19.75 | 20.50 | 20.50 | 370 | 100 | 356 |  |  | 15.50 |
| 860 | 734 | 726 | 20.50 | 20.00 | 20.50 | 370 | 100 | 432 | 13.00 | - | 13.00 |
|  |  |  |  |  |  |  |  | 104 | . 00 |  | 13.00 |

Toronto (Union Stock Yards)
Montreal (East End)
Calgary.


Markets

ce Good Calves


Top
Price
15.75
14.50
12.50
14.00
11.50
0.00
14.00.
11.00
13.50
10.00
14.50

| 21.25 |
| :--- |
| 20.00 |
| 1025 |

21.25
19.25
18.50
16.50
16.00
15.00

THE FARMER'S ADVOCATE


|  | Prompt |
| :---: | :---: |
| butchering, $\$ 10$ to 8 |  |
| ockers and Feeders. - ${ }^{\text {abe }}$ |  |
|  |  |
|  |  |
| $\underset{\text { Milchers and Springers. -Good to best }}{\text { small lots }}$ |  |
| to 885; in Carloads , 877 to 875; commo 8.50 to 855 |  |

reached $\$ 21.25$, and pigs sold largely
$\$ 20$. Thursday's trade was steady to
dime lower thy

Prom $\$ 18$ to $\$ 18.50$ and Roughs ranged 81 down
The past week's receipts were 24,101
head, being against 22,746 head for the
week before, and 22,100 head for the
same week
Sheee a ad Lear ambs.- Values showed a
break the first part of last week, but some of the decline was regained before the
week was out. Monday the best wool Thmbs sold largely at $\$ 19.65$, and on
Thursday and Friday the ranged up to
$\$ 20$. Bulk of the offerings were clipped and prices on these stood around $\$ 3$ per
cwt., under the wooled grades. Monday
hest shorn best shorn lambs brough from $\$ 16.50$ to
$\$ 16.75$, one deck made $\$ 16.85$; Tuesday one bunch reached top was 817.15 .90 . Thursday
bulk linday the
bunded 817 . Cull shorn lambs skips going a s low an ass. $\$$ shorn wethen
sold the past week from $\$ 13.25$ to $\$ 13.50$, and top for clipped ewes was 812.50
For the past week receipts were 15,200
head, being against 18.599 head for the same week a year ago.
Calves.-Last week started with top the bulk brought $\$ 17.50$. Thursday at $\$ 17$, and Friday it was a slow trade,
with bulk landing at $\$ 16.50$. Light inaround $\$ 14$ and $\$ 14.50$, and cull grades
and ranged rom $\$ 3.50$ down. The past
wek's receipts were 6,600 head, as compared with 7,430 head for the week
before, and 5,450 head for the same week

## Toronto.

Receipts at the Union Stock Yards,
West Toronto, on Monday, April 21,
consisted of 61 cars. 627 catte. 351 cal wes, 1,857 hogs, 71 sheep and lambs. Trade
slow. Steers and heifers 25 . slow. Steers and heifers 25 c . to 50 c
higher; top for loads, 814.75 for 18 head veraging 1,050 pounds each. Cows and
bulls, 25 c . to 50 c . higher; stockers and feders, steady. Sheep, lambs and calves,
steady Hogs higher, f.o.b. selling at steady $\left.\begin{array}{l}\text { Hos } \\ \$ 20.70\end{array}\right)$ to $\$ 21$
tario f.o.b. shipping points according to freights). No. 1 winte per car lot, $\$ 2.14$ to $\$ 2.20$; No. 2 winter
per car lot, $\$ 2.11$ to $\$ 2.19$ No. 3 winter
per car lot, $\$ 2.07$ to $\$ 2.15$; No. 1 spring per car lot, $\$ 2.06$ to $\$ 2.14$, No. 3 spring
per car lot, $\$ 2.02$ to $\$ 2.10$ Manitoba
wheat, (in store, Fort William)-No. northern, $\$ 2.241 / 2 ;$ No. 2 northern,
$\$ 2.211 / 2:$ No. 3 northern, $\$ 2.171 / 2 ;$ No. 4
wheat, $\$ 2.111 / 2$
$\qquad$
$\qquad$
$\qquad$ minal; No. 4 yellow, $\$ 1.77$, nominal.
Barley (according to freights outside) malting, 95 c . to $\$ 1$.
Rye (according to freights outside) Mo. 2, \$1.60.

When you ship Grain, Butter, Cheese or Fruit, put through The Merchants Bank a Draft on the buyer. This is the business way of securing prompt and satisfactory settlement.
THE MERCHANTS BANK Head Office: Montreal. OF CANADA Established 1864
 WRITE OR CALL AT NEAREST BRANCH
Prompt Returns From Shipments




Montreal
Horses.-Dealers report that buyers market during the past week and fev animals were purchased. The range of prices was steady. Heavy draft horses,
weighing from 1,500 to 1,700 lbs. were quoted at $\$ 250$ to $\$ 300$ each; light draft weighing from 1,400 to 1,500 libs., $\$ 200$ each; culls, $\$ 50$ to $\$ 75$ each and fine
carre

Dressed Hogs and Provisions.-The range of prices was slightly higher with
fresh-killed $281 / 2$ c. to 29 c. per 1 lb . Smoked and cured firm undertone to the market with light weights, 12 to 15 lbs . each, at 36 to 37 c . bacon was quoted at 42 c . to 43 c .; Windsor boneles, 47c. to 48c. Lard was in good Barreled pork was steady at $\$ 54$ a barrel for Canadian short cut; $\$ 52$ for short cut
fat backs; $\$ 45$ for mess pork and $\$ 43$ or bean pork.
and was purchased for the Jewish Passb. In cold storage poultry turkeys were 46 c . to 48 c . per 1 b .; chickens, 38 c .
to 46 c, fowls, 32 c . to 37 c .; ducks, 38 c .
to 43 c .; geese, 29 c , to 31 c , according to
quaty Potatoes.- The tone of the market
for potatoes has been rather firmer of lighter. owing to supplies being slightly
Quites were quoted at $\$ 1.90$ to $\$ 2$, ex-store, for 90 -lb. bags. were was some agitation to alter the
weight from $90-\mathrm{lbs}$. to 80 -lbs. per bag and the matter will be taken to Ottawa syrup were fairly large, but the price wa $\$ 2$ per $13-1 \mathrm{lb}$. tin and $\$ 1.60$ per $81 / 2-1 \mathrm{~b}$. Maple syrup was steady at 22 c . to 24 c . per ib. with some bringing more.
$\qquad$ is large. Prices showed a wide range, having been reported that from 42 to 45 c o.b. Retail stores were selling new Butter.-Th
crease in the supply of butter and there
was an active demand for everything fering and prices were higher than they have been at any time during the past
winter. Creamery ranged from 64 c . 645c. per 1h. in solid packages. The
outlook is for yet higher prices.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
, 81.18 ; extra No. 3 Ontario,


## A Rainy Day

The soft, gray rain comes slowly Closing the mist on marshes brow Drifting the fog down vale and rill: The weed stalks bend with pearly drops, The clean leaves drip with shiny sphere Away with care! I walk to-day In meadows wet and forests gray:-
'Neath heavy trees with branches low 'Cross splashy fields where wild things past shining reeds in knee-deep tarns, y soaking crops and black-wet barn p raining pools and brimming' boobs With waterfalls and cascadills Fed by the new-born grassy rills;-
And then circle home across the Thru all the soft and watery spots. Away with care! I walk to-day
In mieadows wet and forests

- From "WWay. -From "Wind and Weather", published

Reconstruction

## On the Side Roads and Concessions.

In many respects the world is entering
upon a new era. Much that was old and upon a new era. Much that was old and
decadent has been broken down by the
influx of a more democratic influx of a more democratic spirit and
higher ideals. Autocracy has been weighed in thr balance and found wanting, and 'Till the war-drums throbb'd no longer, 10, war-drums throbb'd no longer,
and the battle-flags were furl'd,
In the Parliament of man, the Federa-

However, one must not look for the was laid it has suffered many conturtions,
complete passing of the old order off and to d Things and the inrush of the new all a
once. it will take time. R Rewl needs be gradual to be secure. Ronie wib not built in a day, nor will the ideals for achieved overnight. In order to build ul or reconstruct the community, province county, or empire requires the united
effort and thought of all classes of people fffort and thought of all classes of people.
No one class, cult, profession, or trade holds a monopoly on ideas, suggestions or plans for the reconstruction which is past. It requires the co-operat was in the and the weaving of the best thoughts and plans into a fabric without flaws and Are we which will stand the wear of time iudices, our opinions sank our little pre benefit of the whole state or will the individual stand out and demand what ffect on the masses? The future alone vill tell how well we have learned to Argive and forget and to work together -a better world. The result will depend upon the action of the men and women well as of those living on Wall Street numerous individuals with a common

## Reconstruction on the war-torn ficlds of Belgium and Flanders embodies more

 debris, the afterman in Canada. There the cleared away before the foundation for people have learned to depend upon theirneighlors for strength, and
 han trowine ancow "-wery man for hinlsect appears to have been the idea has been mate out of the other man's opportune time to clange the old order "Do unto ot hers as you would that ot hers Do unto others as you would that ot hers been adhered to there would not be the riction between nations, between capital ployees, between employer and emather and son, that exists. Families there would be less class and race anof the past and work for the be mistakes

country with vast arceas canablece of producing the finest of wheat and of raisingsoil have for many years not teccived of theust dues. Prices of produce raised were
ow, and the farmer was and in many
dealers, packers, etc. Farm1 produce is
the ony product placed on the market
for wi.ich the producer has no say in the
price received. The farmer is fored to
ake the price offered, and this price
home conveniences and ' the attitude of
the city man to the farmm folk has resultedatoon
hom
the
san
pri
and his family to reterive wease. to those paid in towns and cities s. , 0 Iaren vaction is being ctfeeted, and the the farmer
voice will be assemblict Te heard in our legersataring quires res more than in the past. It le rin business according to the numbers on gaged in such in order. If manufacturing we entitled ascendency then they would be entitled to more of their class than the agriculture is fire, ill Canada where agriculture is first, it is essential that more encouraging to see steps to this end being waken. Agricultural produce last year mas valued at many millions more than admitted that canada's future generally and financial strength depends uponomic importal development. Therefore, it is done to put farming on a sound business basis as regards production and marketing. To hold the young men and women on the as in the city. This does not necessarily mean higher prices of produce to the congetting a square deal from the farmer getting a square deal from the manufacmen, etc., and that he plan his work so as to get maximum returns for the labor peaks which might be stopped, and steps saved by a little planning. A study might ascertain what that particular soil will produce to best advantage. To continue Sowing a crop which at best gives but small returns is poor business, if a more
remunerative crop can be grown. It is mperative that the individual farmer make a closer study of his business and eliminate waste of time, efforts and land so tar as is advisable. It is possible but
improbable for some years at least for farmers to be so orranized as to be in a asition to set the price on all their pro-
(



THE FARMER'S ADVOCATE
to him, a great deal, because I didn
mind the odor of tohacco
When he monologued, he used to slip down in the chair, till he almost sat on than his head, and his feet stuck out like sign-boards. And he never looked at the person to whom he was talking.
He usually fixed his eyes as if the person addressed was up there confusing way of leaping from one sub ject to anoth
work by hops

On evening after ten minutus of abso Iute silence, during which time he was
smoking furiously, he suddenly stopped puffing and asked me, sia the ceiling, if if
did not think dress-coats without tails were horribly inartistict
My dear, I dropped three stitches-1 gazed at him with my mouth wide open
But he didn't see wait for an answer. He said that in his opinion a man without tails looked
absurd. He said that Edward VII was in the matter of dress, but he thought he had made a great blunder when he
introduced the Tuxedo. He had nursed a grudge against him ever since. He said
he thought the Tuxedo was a sartorial
sin trin sin; that he had never worn one, and he
never would wear one. Once he wher he was in Eng Ene, ond, he had he attended
a very swell dinner where he was the only a very swell dinner where he was sthe only
gentleman present without tails. "Don't you think,", he asked me sud-
denly, transferring his gaze from the
ceiling to my face, "that ceiling to my face, "that a man looks
better in tails'?" My dear, I nearly choked to death on
the spot tying to swallow a lauth, but
I managed to mumble out sompthin

## Hope's Quite

 Hour.
## Sow in Hope. <br> $\qquad$

The farmer planted a ser
A little, dry, black seed;
And off he went to other work
For the farmer was never known to shirk.
And cared for what had need The night came with its dew
The cool and silent dowl
The cool and silent dev;
The dawn
And the farmer worked away
Home from his work one day
One glowing summer da
His children showed hin
It had hurst in thowed him a perfect flower. How, I cannot say
But I know if the smallest seed

Arll heart wer who works with a trust ing
Will find the flor at last.
I am spending a few days in the country
The air is chilly wath Appit crain, but everywhere. How can anyone get dis
couraged when dry sticlss Coliaged when dry sticks and bare earth sadness of therr-are forgetting the
beginter stangation and
thusing life over again with the en thusiastic gladness of of of wildhood? "The
farmer planted a seed" have planted a midions--yes, the farmers
seeds. grain willingly and sacrificed their seedthat each seed will decay in the dimp
earth where it is coverd out of sight)
Dut that the sacrifice will not te wasted. Those noble younce wilves. which wasted.
up to God from the fiery altar in Euroed have been sacrificed hut not not wasted
When abon our Lord-the Great Sower-was The world, He said: "The hour is come,
that the Son of man should be glorified?
The the Then He went on the explain that this
Ylory must be won through sacrifice:
for, if a grain of whe
 Nany in these days are rejoicing as $\begin{aligned} & \text { lirothers. } \\ & \text { Len us sow wood seed of kind thought- }\end{aligned}$






 s soul, save me from thiumphed overr the pain and then laimed almost exult inely: "1But fuc

## the miracle. The seeds are swittly planted and thoroughly watered. Next morning the unexperienced gardener is eagerly looking for green plants. By the ime a week has passed he has grown discouraged

 it frst-have vanished. Perhaps he ligs up the seeds, to sec if they are prowine digs up the seeds, to see if they are growing-and so interferes with the great miracle - and so interferes with the great miracle
which God is secretly working. Perhaps he forgets the seeds altogether, and the
We smile at his impatience and tell his he must wait to see the results of
his sowing; but we are often just an im patient when the seeds we have tried
to sow show no outward We think our prayers have not been answered, when the answer is not instantly
visible to our shortsighted vision. Offen the seed has sprung up without our
knowledye
ing God for giving the increase, insteadThink of the way seeds of kindness
organizations which benefit manywrite this a splendid young fellow called
to see mue. He only pot home thic morn
ing, after having been a prisoner inabout the food conditions he said simplydeath course we should have starved for the Red Cross supplics,
and hopefuly, sendive off those sathfully
withoutseswithout seeing any result of thoee supplies
zeal- the tatior on ofchurches are numberking checesily societies andof doing more than avoid war. This
good of the whole are ally. working for the
a great disasterinstant and practical expresston of hel pfulcomradeship from the expecsston of helppulspring from? The (ircat on wer plantest
it, and has patiently waited for bly
Iesus lived and loved, from hild hic sowing
beauty (Goul stoons tenderly to clays
hands with man and


## The Fashions.

How to Order Patterns.
Order by number, giving ale or
measurement as required, and allowing
at least ten

Measurement-Waist pattern). Date of issue in which paster 2772-2799-Ladies' Costume. Waist 2772 Cut in 7 sizes: $34,36,38$, Skirt 2799 , Cut in 7 sizes: 22 measure. A medium sizo inches waist measure. A medium size will require about $51 / 2$ of skirt at lower edge is about 126 wan TWOO separate patterns 10 cents FOR

2797-Girls' Dres
Cut in 4 sizes: $: 8,10,12$ and 14 years.




I managed to mumble out somet hing to
the effect that I had never seriously considered the subject, but that I thumht
there was something to say in favor of the there was something to say in favor of the
Tuxedo- one could at least tell a guest from a waiter, which was somet times very
fifficult when they wirn sul "Yes, yes," he said, "quite so-quite

## Then he relapsed into silence, his cyes

 But in a few minutes he became versagitated a fumbling in his front poclets agitated, fumbling in his front pockety
one after the other, desparingly. Then he uncoiled his long legs, stood up, and beyan an exhaustive scarch in all his other
pockets, finding at Ieast what he was
looking for -a match in one of his tail But he had nothing to strike it on,
having lost the scratcher. He hatd the careless habit of filling his pocket with
loose matches, and taringo ft he cratch
part of the low and
 despair.
And all the time there was a thox of
matches and an assh-tray on the table matches and an ash-tray on the table
beside him, hut he ever observed then
till I pointed them out to lime
 He said: "Do your remember the name of Mathominet's first wife? in ? that time.
My dear, the more I think of that man,


third story of an unfinishlell! third story or an
unfortunately drop

## he Fashions.

## by Order Patterne

 Address Fashion pattertn ap.
armer's Advocate Department, $\therefore$ London, Ont. Be sare to get to do this. e following pattern this form:
f Pattern

19-Ladies' Costume
nd 46 inches bust measure. $34,36,38$, (l 34 inches waist measure. Size will require about $51 / 2$
40 inch material. Widt ower edge is about $12 / 3$ yards.
rate patterns 10 cents FOR
Ils Dreses

 2 yards. Price, 10 cents.
2777-Ladies Skirt.
Cut in 7 sizes:
$24,26,28,30,32,3 t$ and 36 inches waist measure. Size 24 requires 3 yards the skirt measures about $21 / 8$ yards
at the foot, with plaits extended. Price,
10 cents. 2473-Dress for Misses and Small Women, 3 sizes: 16,18 and 20 years.
Cut in Cut in 3 sizes: 16,18 and 20 years. material. The skirt measures 2 yards

2779-Ladies' House Dress.
Cut in sizes: $34,36,38,40,42,44$ will require $55 / 8$ yards of 36 -inch material Width at lower edge is about $21 / 4$ yards Price 10 cents
2786-Ladies' Waist and 48 inches bust measure , Size 46 requires $25 / 8$ yards of 36 -inch material. Price, 10 cents.
2509-Ladies' Dress.
Cut in 6 sizes: $34,36,38,40,42$ and 44 inches bust measure. Size 38 requires $75 / \mathrm{yards}$ of 44 -inch material. The skirt
neasures about 2 yards at the foot Price 10 cents.
2775-Girls' Dress.
Cut in 4 sizes: $4,6,8$ and 10 years. Size 8 will require 3.8 yar
material. Price, 10 cents.
2800- A Comfortable Breakfast
Costume.
Cut in 7 sizes: $34,36,38,40,42,44$ and 46 inches bust measure. Size 38 requires 48/8 yrard at lower edge, is about

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\Longrightarrow
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Cut in 5 Sirls Dress.
izes: $6,8,10$ and 12 years. Size 12 requires 33,4 yards of 44 -inch
material for the dress with jacket. The jacket alone will require $11 / 2$ yards. Price 2532-Ladies' "Cover All" Apron. Cut in 4 sizes: Small, $32-34$; Medium 44-46 inches bust measure. Size Medium requires $51 / 2$ yards of 36 -inch material. 2765-Ladies'
2765-Ladies' Negligce.
Cut in 6 sizes: : $34,36,40,42$ 14 inches bust measure. Size 38 re-
quires $31 / 2$ yards of 36 inch material $2619-\mathrm{A}$ Splendid "All Through the
2619-A Splendid "All Through the
Day" Dress.
Cut in 7 sizes: $34,36,38,40,42$,
44 and 46 inches bust measure, Size 38 requires $43 / 4$ yards of 44 -inch materize. Size Width of skirt at lower edge is about $21 / 8$ contrasting material 44 inches wide, rice, 10 cents. Cut in 3 sizes: 12,14 and 16 years.
Size 16 will require $4^{7}$, vards of 36 inch Size 16 will require $4 \%$ yards of 36 inch
material. Price 10 cents. 2739-Ladies' House Dress
and 46 inches sizt $34,38,40,42,44$ requires $71 / 2$ yards of 27 inch material. Width of skirt is about $21 / 8$ yards at the loot, with plaits drawn out. Price, 10
cents.

## 2768-Ladies' Corset Cover

36-38; Large, 40-42; and Extra Large $4-46$ inches bust measure. Size 38
req̣uires $1^{3}$, yards of 36 -inch material.


## 



## Spoiled Cakes Cost Money

Flour, eggs, milk, butter and sugar are high in price. A spoiled cake or batch of biscuits costs money

To make sure of baking success use pure strong, double-acting

## EGG-0 Baking Powder

The heavy Government Standard flours need the strength of Egg-O to make a light baking. Egg-O has water or milk is added in the mixing bowl when cold to rise in the heat of the continues making a light cake doubly certain. You can use sweet milk, sour milk, buttermilk or water with Egg-O-a different and better baking Egg-0 Baking Powder Co. Limited
Hamilton, Canada


The RED, WHITE and GREEN PACKAGE is FAMILIAR to ALL
For over twelve years the original Red, White and Green corn
flake package has been a familiar combination of colors to al Canadians.
During all these years millions of Canadians have enjoveed

## Kellogges CORN FLAKES

The Battle Creek Toasted Corn Flake Company, Limited
HEAD OFFICE

LONDON

Our Serial Story.
The Forging of the Pikes.
A Romance Based on the Rebellion
Serial rights secured by The Farmer's Advocate
and Home Magaine.
CHAPTER
The Way the Wind Blows
HIS afternoon $I$ am writing my
journal in the little office of the apothecary shop, the reason being which Uncle Joe left me has been done, and in the second that the day is so stormy
no one is coming in. Through the I can see the sleet and snow coming down wind so that it beats against the glass like a shower of hail-stones. No. wonder
the streets are quit deserted the streets are quite deserted.
For my own part I Imm very glad of the
storm, for there is much that set down in my book, the chronicling of
sevents having become a sort of diversion to me, so that $I$ miss it, if $I$ am long hindered from it, as I would any other employment or source of comfort. Both
of these my journal has become to me.
In writing the given me joy I live them over again,
while in recording those that have given me sorrow rocting those that have given
mee sorem to find relief such as
one one might find in . pouring out one's
woes to a dear friend. To-day I have so much to tell that I
scarcely know where to begin, and yet
I must proceed somewhat in order. 1 must proceed somewhat in order.
TS begin with since last writing,
just three days ago law surprises, - buyt of that in due time, two
There is a chap next door whose name Clinkenbocker. He is substituting
or a few monthis for the clockmaker, who has gone home to the Old Country
on a prolonged matter of busimess
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$\qquad$
$\qquad$ sea lion, which 1 once saw slithering
about and "honking, without ceasing in a
tank at a travelling circus, and to me tank at a traveling circus, and to me,
ever since, he has been "The Sea Lion," so nuchi so that have been in mortal
terror of accosting him some morning
with "Good morning MI Con
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shop, and was about to shut up for the night when there came a tapping for the the Sea Lion. said, in his deep growling theng, sir?" he "Just going to shut up" I Is there anything I can do for you?" said. It seemed to me that he looked friendthere seemed to and in his countenance there seemed to be a gleam of something "Yes," he replied, abruptly like you to step into my workshop for a few minutes." With workshop for down, and a good measured him up and he was. "What's up now, old fecimen I said to myself. "Well, old fellow?" guess I can look out for my skin as well So in I went yours.

The place was very dimly lighted with I saw nothing but candle, and at firs flame in the midst of a jungle of ticking clocks, short and tall. Then from the stood up, taller and of them someone breath I had taken one bound at the next shop, sending a lot of loose wheols the clattering from something that I bumped
It was The Schoolmaster
"Highty-tighty!" he exclaimed, an nearly wrung my hand off, and I swear I could have hugged him.
"Where did you come from? -When "Where did you come from? - When "Slowly, boy, slowly!" he laughed 'One at a time! - I came straight from he Corners, at least as straight as the an hour ago. They are all I got here an hour ago. They are all prefectly well to you.-There", taking it or a letter pocket, "sit down and read it."-Which finding it filled stopping to make apology, happenings that I most wished to home about, and ended with the few words ve that I well know how to measure.

While I read The Schoolmaster and elinkenbocker conversed in a low tone, both turned ho at last finished they with a glad smile, the Sea Lion with that promised to develop into eybrows proper coddling
I said, somewhate here a whole hour!" I said, s?mewhat reproachfully.
"You'll forgive me," said The Schoolmaster, "when I tell you that it was only a few minutes ago that I learned your Uncle's and my friend here had a than I had thought "" were nearer to me "Of course.-Just before I left. When I have time to turn out my carpet bag Ill get you some warm socks from your about what you are to do in case you

I laughed, and then I thought of Barry. "There's no especial news?" I asked. icular. I've been trying to get Jimmie rs for the winter, but there's difficulty course, about housing the oxen and the ne-working long and late these days. - Big Bill's drinking harder than arried his housekeeper did you?-A wild old charivari the boys gave him.
He's so mad over it they say he's going He's so mad over it they say he's going

FOUNDED 1686
tapping at our tapping at our
and there stood about through, sir?" he
eep growling voice hing I shut up," I said. al, and in his looked friend. to be a gleam of something replied, abruptly. anion, "I'd
tep into ood, thick stocky specimen hat's up now, old fellow?" ok out for my skin as well

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| ken one bound across th |
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| hand off, and I swe |
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| ed, all in a breath.slowly!"' he la |
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| would allow. I got herehey are all prefectly well |
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| taking it out of his |
| pping to make apology, |
| th all the little home |
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|  | deep growl from hehind the moustaches,

so suddenly that I almost jumped. "I was out at the Garrison, not long very few soldiers there. As you know The Schoolmaster nodded, and swear that began to feel most unwonder just how, much I might to without being traitorous to my new
friends, while still remaining faithful to the old. Thus came to me, strangel a realization of the position in which had placed myself, and Hank's words
that June day in the mill flashed back me, 'Look out lest you sit down betwee For a few moments so confused was
I, in trying to place myself, that I quite lost track of the conversation, and heard
not a word The Schoolmaster was saying, although I knew that his voice was going itself. "If the worst comes to the worst,"
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April 24, 1919
top some day, in Canada,-and especiall I glanced at the Sea Lion, but he wa sitting with is hands clasped over his stomach and his eyes on the floor, as of the Polar Sea and about a expressive. "He must be 'one of us,'
I said to myself and then I must have drawn down my brows in perplexity, for I felt, at that moment, as in, somehow consoled myself with thinking, I had don hut as everyone had wished me to do. misinterpreting my scowl. all right," h
"Oh, Clinkenbocker's said, "You needn that haste to disclaim "I wasn't thinking of him, I was wonder ing wheth the boys."
home with
The Schoolmaster waved his hand genially. "Not at all! Not at all! You're just where you ought to be. we expect, you can easily self in where you can be of use."
"You think, then-" I "egan. But he cut me off-"Oh, something sbe glanced at our Companion, and
He straightened up, and was sitting with hi hands on his knees, chin protruding and eyes glaring a bit.," laughed The School-
"Do you know," master, "my friend, here, had put you
down for a dyed-in-the-wn
Naturally, of course.".
The glare relaxed to a twinkle and the The glare relaxed to a twinkle and the long drooping moustaches twitched. And which I shook with right good will.
But never a word did he say. "He tells me," went on The School-
master, "that the town never was in better shape for being frightened out of its seven senses, and
the Lieutenant-Governor may be in-
timidated, although so far he has shown no sign of fear and is very stubborn,"Stubborn's the devil!"' came in a
deep growl from behind the moustaches,

THE FARMER'S ADVOCATE


Figure Your Painting Costs with a Brush-Not a pencil
given cost will cover. Not only how much it covers, but how well it cover how long it will take you or a painter to do the job.
In figuring the cost always remember that it takes more time to put on a poor paint than a good one-any painter will confirm this fact. Poor paint
has not got the working qualities. It is not ground so fine nor is it so well

Lowe Brothers Paints
I turned to The Schoolmaster., And now tell me the news, I sa "ther side for the past three weeks." at the long black wisp of hair that a ways hangs over his forehead, "Wher
shall I begin? Did you know that Mac kenzie left for the North about the
of the first week in November?" "Of course up Yonge street is the ver centre of the movement," he went on
"Lount, Matthews, Gorham and other have been very busy there. In fact is expected to come from there. I
the West, too, as you know, Dr. Dur believe, too, there is some energetic. Colonel Van Egmond assist actively."
"Colonel Van Egmond!" I exclaime remembering well the kindly gentlema
 military tactics down to a science.- W
have to be prepared for possibilities you see.-Besides, his very name lend Just as the names of Doctors Rolph and has been able to use their authority up
the floor. have heard," I said, feeling myself on thin ice indeed, that Docto to connect themselves with the move
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GEO. KEITH \&SOLS
124NIGST: 3 TORONTO

[^2]Mall Government trest, 100
responsibility; the law of primogeniture
to be abolished; the Judiciary dependent; the military to be to in strict subordination to the civil authorities; community; every vestige of Church-and State Union to be done avay, the lands and
all the revenues of the country to be under all the revenues of the country to be under
control of the country; education to be widely, carefully and impartially diffused;
o these may be added the choice of our own Governor
said, handing the All very good,"
The Schoolmaster. "Although part 'll be glad to keep the book to study. ermit me.," Mr. Clinkenbocker will
He growled assent, then picked up
the other booklet, labelled 1834 and
turned over the pages. "Read that,"
"The backwoodsman, while he lays
forests of Canada should ne never forget
that a base basswood is arowing in
his native land, which if not speedily
girdled will throwe its dark shadows over
girdled will throw its dark shadows over
the country and blast his best exertions
Look up, reader, and you ruill see seo the
nearly every prominent Tory family
ere to set down. "The farmer toils,",
he paragraph ended, "the merchant toils,
he labourer toils, and the Family Compact
ap the fruit of their exertions."
This last I read aloud,
"Gives 'em the devil!" reiterated Clin-
"Rather personal, that," commented
he Schoolmaster, "but personalitics
cem to be the fashion in personalitics
ress the Colonial
rese davs. There's more truth
ress these days. There's more truth
w, Alan, who are the men who are
not not neither do they spin, and yet
colonon in all his glory'- Well, you l:now
"Whout it now, Alan."
Mano gets out this 'Patrick Swift's
"Why, Mackenzed.
very well known,", replied The School-
naster, then, glancing about, "By Jove,
Clinkenbocker, here a round
linkenbocker, here a round dozen of
your clocks tell me it is eleven of the
I have a mouth on me."
The Sea Lion got up with alacrity,
Fact! I forgot," he explained, simply,
act! Iorgot, he explained, simply, when I heard him coming up again, and
$\begin{array}{ll}\text { er and be trundled about and brought } & \text { presently he appeared at my door } \\ \text { carrying two wine-glasses, brimming full. }\end{array}$
eat ham on a platter from which he I could have died with laughing at the
look of him, for I didn't have to go round
ut huge slices; laying everything on a a corner to see what was coming, go round
whle decorated by clocks along the back. "Here, you young rapscallion," he
"I ull up," he commanded, and then said, "drink to the health of the Queen,
he to and made havor with' the viands, God bless her! Drink, you young raps-
topic just then could te so interesting to glass, and drank with him to the health
me. After that I went with right good will. And an odd enough master to The Sum Tavern where he one end, in mere, I do say, I with my hair
was stay $\begin{aligned} & \text { ong with red bind- } \\ & \text { ings, and he in his rumpled evening }\end{aligned}$ staying for the night, going about, ings, and he in his rumpled evening
make the walk a little longer, past dress with his ruffled shirt pulled up
dre hind Johnery, which stands a little over his vest and a wisp of such hair he

With that he was satisfied and went Hott's tavern, "The Sun,"I looked $\begin{aligned} & \text { away, while I, thoroughly awake now, } \\ & \text { reflected on the evening's occurrences. }\end{aligned}$ Frached it, the Schoolmaster having And then I saw very clearly, and do now "Declaration of Independence of comes of lack of common experience and



 ingur mine as in onew and wart


## dits a anater of chove! LILY WHITE CORN SYRUP

Some people prefer the white (Lily White) corn syrup for table use; others, the golden, cane-flavored, Crown Brand
Authorities strongly recommend Lily White for PRESERVING, and candy-making.

## 

## CROWN BRAND CORN SYRUP

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


## Nitrate

 of Test wilh Mangels at the Ontarto Plot No. 2 Acia Phosphate too ls . Muriate of Potash 200 lbs.Yield per acre 30 tons 1450 tbs.

## John's <br> Confession

"David" he said, "I must confess that I thought you were a fool when you sent away one hundred dollars of your good money for that Nitrate of Soda last spring.
"And when I saw you scattering it on that field afterwards to give the young plants a good start, as you said, it looked to me foolishness with a taint of madness."
"For," I said to myself, "how can any man in his senses believe that a hundred pounds or so of salty looking stuff like that scattered over an acre of ground can do any good?
"Seeing is believing, however. I have been watching the results closely and I acknowledge now that I was the foolish one. From the very first your crop has gone ahead of mine. Your yield will be twenty more bushels to the acre than mine I should think.


Soda
Test with Mangets at the Ontarie
Agricultural Conlege. Plot No. 8
$\begin{aligned} & \text { Nitrato of Soda } 950 \text { Obs. }\end{aligned}$
Acid Phosphata 40 lbs

Actirhosphate 400 bss
Muriate of Potassh 200 ibs.
Not per acre 35 tons 850 bs .
Note-An increase (f nearly, fito
tons due entirely too he u o of 250
los. If Nitrate of Soda.

## David's Reply

"John," David replied, "I have been expecting this speech from you for quite a while past. I know you and the neighbors have many a joke over my fantastic ways of farming. It would be strange if you didn't for I like to do things in my own way-and they are sometimes queer ways.'
"I have a confession to make too. I know I was exposing myself to more ridicule if I failed, to say nothing about losing money-and it is far easier to suffer the loss of money than to endure ridicule, as I have learned by experience."
"But I have a great respect for the teachings of Science, All the experimenters agreed that Nitrogen in the form of Nitrate of Soda was the very best thing to use for a back-
ward crop in the spring-and mine, as you know, needed ward crop in the spring-and, mine, as you know, needed a bit of forcing, as did yours."
"Here certainly is a fine yield- 40 or 45 bushels to the acre instead of 20 or 25 I should think, thanks largely to the Nitrate of Soda that I used as a spring top-dressing.

## Advantages of Using Nitrate of Soda

maturity of most garden crops. It makes plants resistans. Plants made strong by vigorous early growth can better resist
drought, attacks of insects and plant discases It increases yields of special crops. It is of great importance in the product ion of sugar
beets, fibre plants, fodder crops and tobacco. It improves pastures and meadows. Applied as a top-dressing it increases the growth of the grasses and clovers greatly.
Sometimes crops are checked in their spring
growth owing to the delayed action or the growth owing to the delayed action of the soil
bacteria. The Nitrate keeps the ponts growing until the soil is stirred into full life.
complete fertilizers. Phosphoric Acid and complete fertilizers. Phosphoric Acid and
Potash which are required by plants as well as Nitrogen, are not so costly as the Nitrogen nor are they so often lacking in our soils as
is Nitrogen.
estimated that ready-made fertilizers. It is estimated that ready-made fertilizers cost from
25 to 35 per cent more than home-mate mixtures. The scientific agriculturist will buy his supplies of Nitrate of Soda, Acid-Phosphate and Potash separately and make such
mixtures as he knows his mixtures as he knows his soils and crops
require.
$\qquad$ Nitrate of Soda supplies Nitrogen to plants
even more readily than does manure even more readily than does manure. Back-
ward pastures are stimulated into vigorous
growth. Struggling fall wheat or spring crops are forced to grow; they do not have to wait for the bacteria to unlock the stores of plant toods held in the soil. Trees in the orchards attain a richer leafage. Vegetables in the
garden shoot ahead. Lawns are made greener and richer.
A comprehensive report on "Nitrate o Sora, its hature and use in agriculture," has ment and appeared in this publication two wecks ago. It has been prepared by Frank and Bhtt, M.A.D.Sc., Dominion Chemist Investigational Work with Fertilizers. Write to-day for a copy of this report. It shows the

## Price and Instructions for Ordering. $\begin{gathered}\text { The Nitrate of Soda is stored in Ontario at } \\ \text { Brighton, } \text {, obourg, Trenton, Nobel and Sulphide. }\end{gathered}$

 The Price is $\$ 82.00$ per net ton in carload lots, f.ob. cars at striphting, Cobourg, Trenton, Nobel and Sulphide.of selecting the shipping point. The Board reserves the option
In less than car lots the price will be $\$ 9.00$ per bag weighing approximately 200 lbs . each, f.o.b. shipping
point. Ninimum shipment five bags. All oriders nust be sent to Imperial Munitions Board, 56 Church $S_{t}$., Toronto, and each order must be
accompanied by a marked theo orders should he made out incque far mor of Imperial Munitions Board, and nuis purchase. Cheques and money In ordering pleare dive full shipping directions including your Post Office address, name at par in Toronto.
your nearest railway sailway and of delivery.
Imperial Munitions Board, 56 Church St., Toronto, Ont.

## Founded 1868

The Ingle Nook
 D apon "The Subconscious a Mind," whose studies have roamed somewhat came upon the following passage, which,
in consideration of the aliveness in Canada just now of the prohibition writing the paragraph, Dr. Schofield had not the slightest intention of entering upon temperance propaganda; the subject
came up, incidentally, as an interesting Thase in study of the brain. necessary to explain that the brain has three parts: 1 , the "cortex," or upper
brain, which governs all conscious and voluntary action; 2 , the "basal ganglia," or mid-brain, which governs our habits, "medulla," or lower brain, which governs
a!! actions performed unsconsciously, whether we will them or not, such as to some extent, breathing
Now for the quotation:
Hughlings Tacken by Dr paralyzes the brain from above down-
wards. If a moderate amount of alcohol
only be only be taken, paralysis does not super-
vene, but only general excitement of the exceeded, symptoms of paralysis of the cortex are evident in the loss of voluntary will power and conscious control over actions, consciousness being also lost to a
large extent; while at the same time the performance of the most complicated dancing well-known dances, shows, or paralysis has not yet extended deeply
enough to reach the mid brain or the governs always unconsciously the equi ibrium of the body. Here is an instance "AA lady' engaged to play at a private and the result was, she not only kept on the piano, but whenever her fingers rested
on the keyes, she started playing like an automatic musical box, and could not be omplete change takes place. As the paralysis extends lower, it involves the
cerebellum; and the upright position, for no longer be maintained at all, and the ictim falls down on the floor. At the
ame time the mid brain shares the unconstious habits cease. The man no quite still. He is now dead drunk, s temporarily paralyzed with the ex-
eption of the medulla, which still quictly
carriec of tho arres on the functions of life, and will
ontinue to do so, because at this stage he man always stops drinking, and for a he wishes to, for his intelligent will power emains; lout it is simply because his arm paralyzed, and he can no longer
mechanically carry the poison to his lips.
But for this thousands
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been greaty refluced. That this must be
the ease ellewhere may be judded from
the fact that recently the quustion came
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so so age, in cases where three ajoworing equired countied
beeng the surplus building so agred, the surplus build ings thu
being liberated for other se.
In September women will have a chanct to vote on the question. It might be
well if lecturers were engaged to go about
before the etime instruction in regard to tarking the
ballots. The papers will. no doult, all give such instruction in good time, but
the advantage of having a lecturer is that better opportunity is afforded for im questions. All women voters should see that their names are properly entered on the voter sts. This may be a question that a
women's organizations will have to se to. The question came up at the meeting Of the Interprovincial Council of Farm Women, at Winnipeg, last week, and it
was found that as yet there is much confusion in regard to the matter. By the way, Quebec, a short time ago and wines. Prince Edward Island, Nov Scotia, New Brunswick, Manitoba
Saskatchewan and Alberta have bee made by vote permanently "dry:" so is only in Ontario and British Columbia fall, when the soldiers are home from A mave another suggestion that ike birds, and, at the same time, would A movement has been started by the Audubon Society in the United States 10 convert all the cemeteries of the Don't you think that a splendid idea? dear songsters should find peace peace in which to build their nests, un unolested, and So very little effort, too, would be
required to do this good thing,-nothing more than the planting of trees, if there bird-boxes, perhaps, occasionally, some food that the birds like.
It is not hard to bring these little teat hered friends about, and, once the a-field, repaying those, who have ness of their songs, but by eating insect, hirds the more difficult the strugzle the farmers and fruit-growers must have against all these pests. Were our country
filled with birds there would be little need indeed, for spray-pump and poison.- No bird-lovers only, affrm
scientists also, who have found out exactly the destruction to insects an year by even one little bird.
"But the robins eat my cherries!"
says one. Perhaps they do, but if you says one. Perhaps they do, but if you
gather the cherries soon enough the birds will not have time to take off a great
many. Besides, they more than make up for the bit of damage they do to the
cherry crop by the great good they da It is said that a very good plan to pro tect one's fruit is to plat the confines o the orchard. The birds like the wild frui suggestion for the proposed sanctuaries When the trees are being planted in the such beautiful native trees as the wild bird-cherry and the Juneberry?
We thank the U. S. Audubon Society for their suggestion. Juvin

Needle Points of Thought "Success is a habit of doing every
thing right from the start."-Edward Earle Purinton Reaction we can help ourselves only by helping others, and whatever we do to harm others will react to harm us. This is not a dream; it is an
absolute fact, and the quicker we all recognize it the better it will be
all of us."
 produce more milk, and keeps them healthy. But stock will not drink freely of ice cold water nor of warm stale water. With

## Empire sưply System

you can have an unfailing supply of pure, fresh water anywhere about the barn, and it will be of an even temperature-just as it comes from the well, cistern or spring.

Just what you have been looking for. Costs little to install. Makes farm work easier

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We want to tell you about the many advantages of the illustrations. Wi will also send you an Information Bland Which, when filled out, will enable us to send you full particulars and
ticular needs.

THE EMPIRE MFG. CO., LTD.
tory: London, Ontario


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## MALTESE CROSS TIRES 

## STRENGTH

 ENDURANCE-Two things the motorist knows a Tire must have to give him his money's worth. A "double portion" of each is served with every Maltese Cross Tire
STRENGTH is built into these tires by experts ENDURANCE is proved in them by motorists.

## TREADS

Non-Skid
Paragon
Ribbed
Gutta Percha \& Rubber, Limited
fice and Factory, TORONTO
Vinnipeg, $\begin{gathered}\text { Reginatreal, } \\ \begin{array}{c}\text { Maskatoonwa, } \\ \text { Lethiridge, }\end{array} \\ \begin{array}{c}\text { Otta } \\ \text { Vancouver, }\end{array} \\ \begin{array}{c}\text { Toronto } \\ \text { Edmonton. } \\ \text { Victoria }\end{array}\end{gathered}$
Ft. William,
Calgary,

## SEEDS

We pay the frieight on all or ders o o
g22.60 or over east of overnment standard

##   No. 1 Afiralfa Onta White Blote Whosom Swe Miree Ti <br>   <br> TODD \& COOK <br> Stouftrille <br> Ontarle

You Can't Break This Hame Strap
$\qquad$


 Send ai postcard $n$ nw for book of otabie
helossinowis the newest money-saving Horse
Specilties 68 Waterloo St..

Steel Wagon Wheels

 COOKE METAL CO.


Price is not everything $Y^{\text {OU may be told that you can }}$ buy overalls equal to Carlieve me, you can't. No one. can The fine quality of Carhartt's and
the fair price at whe the fair price at which they are
sold are due to my chormous out
put probabily the greatest on continent, which enables me to do can any manufacturer dow theng busi-
ness in in maller efficient metholst way, with less
opportunities of , ald with few hiope to give as muctur expee
Carhartu's for less money? assured of thiss That if if it were
possible to oofer you the present Ofansiten Crhastar


## June Wedding.

"Margare," Cding
Dear Margaret, there is no set rule for wedding luncheons ("breakfasts," as they are often called). More and more the tendency is to make them simple affairs, for the feeling grows among really nice people that in all show and ostentation A pretty way is to have small tables, at which about four people may sit, with large one for the bridal party and parents of bride and groom. But if it is inconvenient to have the small tables, lon ones may be improvised, with the long party in the place of honor at a table less trouble - to have "sit-down" luncheons at a country wedding down one can have whatever one likes, exactly as at any other luncheon. There may
be clear soup fowl and ice-cream or fruit-salad, with, cak pickles, etc one chooses, Wal the may be omitted, and instead may be served chicken-salad, sandwiches, thin usual sweet course at the end. As people
have to have to come so far to a country wedding,
and are likely to be and are likely to be hungry, a good, sub-
stantial luncheon seems the right kindly thing. Of course, in cities where hure sometimes anywhere from on small, private weddings are gaining in
favor), tables and so a "buffiet luncheon" has been in tains plates of small sand wiches of the co
the almonds, cout in small bits, maccaroons, erved first, whereverct they may bee, stand no plates. When the sandwiches are
passed they are laid on the edge of the small. The olives, almonds, and litttle sweet gherkins are passed with the sand
wiches. Afterwards the cups are all away and plates of ice-cream or fruit
salad passed, with the cate ated with flowers which are prettily decor -just enough and not too many, sas evcn
too many flowers may smack of It is better to use one kind. In late ol June
a bow tof with a few roses and buds placed on the
table-cloth besides.
vases, with "daisy-chains,", placed in the in festoons about the centerpiece. Somne-
times banks of tulle are fluted centre flower arrangement, or strips of
ribbon are extended from the flow holder to the corners of the tables, or The rooms also are festooned and Always the wedding -cake is given the storeys of it, which are alterwards three to the bride to take home. But nowa-
days an extra portion, or the lie lowar storey, is usually cut beforehand into litttle
bits, so therc wilt breaking up of the cake at the table. About the tray query.-It it quite. im. trays each cup, or three or four cups may
be placed on it, with a and bowl of loaf sugar. Oitherwit cream Iumps of sugar may be put on the edge
of each saucer and the cups on the without a tray at all excecparried those used
immed and sugar-bowl if extra sugar should be
required. ony to a buiftet luncheon. At a a sitit
down" luncheon little jugs of cream aud
bowl You sec, dear placed on the table. Wremony and pomp, and nonsense, the
 hese things, and the lignity that comes of egarding a wedding must one he anxious
hat everveon, - that is a forget to to putheon a spondecided upon,Itsel the put a aspoon on each saucer,
forget spoosist thing in the world

Founded 1806

Knowing the Wild Flowers
$W^{\text {HO does not love the wild Alowere }}$ can name, even by their commpo Surely we should hal a dozen. ter than this, and so tow our friends betmake a few introductions. If begin to to make more intimate acquaintance you can find it through any of the many
books on wild flowers Who Among the Whid Beecroft's Who's berry's A Guide to the Wild Flow, LounsReed's pocket "Guides" may be mentioned as popular books on the subject. For actual botanical study there are many by Gray's School and Field Botany stand. Skunk Cabbage (Spathyema foetido) needs few words here. Everyone knows marshy its disagreeable odor. Look in days and you will likely find earliest spring in the southern portions of Canad especially will recognize it at once by its curious veined spathe, in its case a green, purple tects the quite inconspicuous flowers

cowded together inside. Later the great somewhat those of the Day Lily, are quite ornamental - But odoriferous! Ugh! Marsh Marigold (Caltha palustris).robably you call these flowers "butter cups, " but they are not buttercups. The
only buttercup that you are very likely to find at this early time has a quite inconspicuous flower. But the marsh marigolds! They blaze over the wet marshy places and along the edges of
sluggish streams in sheets and patches of sluggish streams in sheets and patches of
gold. No one could miss them, with their bright yellow clustered flowers and rounded, shining leaves. By the way this plant is Shakespeare's "Mary-bud." all the very orly spring fowers is this, as it nestles beside a log or tree in the woodland. Its delicate white, pink or bluish dainty, often sweetly perfumed, are very well wrapped up in and stems seem weighrapped up in a furry fuzz, as
though to protect them from the cold.

Seasonable Cookery gether 1 bint rolled oats, 1 pint rolled wheat, $1 / 2$ pint yellow cornmeal, $1 / 2$ pint whole wheat flour and 1 teaspoon salt.
Dissolve 1 teasporn soda in 2 tablespoons warm water. Add $11 / 2$ pint New Orleans molasses. Stir and add this to 1 pint
thick, sour milk. Mix all together and Savory Kidneys.-Cut the kidneys eins and centre and remove the whit drop into boiling water for 5 minutes then drain and wipe dry. Cut thin slices Lay the bacon on the kidney and bake in moderate oven. Dust with salt and

## ving the Wild Flowers

 es not love the wild ioiver)et comparativelly few ame, even by theie poompen than half a dozen. hould know our friends bet-
and so to-day we and so to-day we begin to
ntroductions. If you re intimate accquaintant ne t through any of of the many flowers. Beecroft's many's
the Widd the Wild Fiowers, L.uns
de to the Wild Flowers "Guides" may be mentioned oks on the subjent., For
al study
al :al study there arect, many ding that good old stan
ool and Field Botany, oor (Spathyema fo ds here. Evathyema foetide)
done knows agreeable odory Look in
on the very on the very earliest spring
vill likely find it, especilly vill likely find it, especially
portions of Canada. it at once by its curious
in its case a green, purple hich case arrounds and pron te inconspicuous flowers

> Great Britain's Need is Canada's Opportunity - Egg and Poultry Export Demand is Unlimited-230,000 Dozen Canadian Eggs were Moved for Export March 12th to 31st-Business was Offering for as Many Cases but Supply was not Available.

## Aim for 100 Laying Hens on Every Canadian Farm

Pure breeds of laying strains-eggs and meat are the Poultry Producer's objective.
Remove non-producers - do not have any boarders-consult the Government Officers on Flock Improvement Methods.
Only early hatches will give maximum profits-winter eggs give greatest cach returns-have pullets laying in November.
Destroy all unhealthy birds. Disease spreads rapidly, causing heavy loss. Keep houses sanitary. Prevention is the best cure.
Uniform methods are essential. Hens are creatures of habit. Help them to get thelaying habit-it will pay you. Canada is good for poultry. No country in the world is better able to produce eggs and poultry. Climatic conditions are ideal.
Every farm should have 100 laying hens- $75,000,000$ hens for Canada. This is a possibility and also a probability if you do your share.

## Volume, Quality and Co-operation

Market regularly and frequently-Do not hold eggs; they deteriorate rapidly; bad eggs have no place on the market.
A dirty egg case and dirty fillers cause heavy losses. Quality always commands a premium. Remove male birds after the breeding season; fertile eggs incubate in the sun's heat.
Keep eggs in dry, cool place. Exposure to heat and contaminating odors should be avoided.
Eat the very small eggs on the farm. Weight is a determining factor in grading.
Train the children to handle the poultry flock and you will have solved the labour problem. Co-operate with other producers in your locality Volume, quality, and co-operation with standardization and advertising will help the hen to pay our war debt.

Export Shipments are Protected by Government Inspection

Produce Economically through Flock Improvement

## Markets Intelligence

 Daily and Weekly Egg and Poultry Markets Reports are issued by the Poultry Division of the Live Stock Branch, Ottawa. These are distributed free on application. A triweekly market report service is available in the Western provinces, Winnipeg being the distributing point for Manitoba and Saskatch ewan, and Edmonton for Alberta pricesprevailing at thelargemarketcentres.Live Stock Branch
Dominion of Canada Department of Agriculture
 Chack. ezzss for hatching. Write for catalogue
BRED-TO-LAY Leamington, Ot.
SINGLE-COMB WHITE



 BARRED ROCKS-PARKE'S AND O, A
College bred-olay strains. Can A supply cock-
relo




 BARRED ROCK COCKERELS FORSALEAT
BRED-TO - LAA TOM BARRON WHITE







$\frac{\mathrm{K} \text { Kingestan }}{\text { CYPhI }}$

 EGGS AND DAY-OLD ARHICHS FROM







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Bucker Etrain.
Bun, Denfeld.
BEDGE
Bow
beautiful
Heckor















Prevent Chick Bowell Trouble
Raise All You Hatch Raise All You Hatch How to avoid loss, how to success-
fully raise baby chicks and just what
to feed them together valuable informatione with a host of
ers, contained in new 16 poultry rais. Crs, contained in new 16 -page bulletin
writen by Professor Quisenberry, Box
7010 , Leavenworth, Kansas, said to be the best authority on poultry in the
Country This bulletin mailed free.
Write at once to my address.

## BABY CHICKS


 LUCKNOW HATCHERY

## Want and For Sale








Registered Seed Barley


## The Scrap Bag

A Good Gardening Idea
other dirty work in the garden or doing
a piece of soan a piece of soap. This will prevent the
earth from getting under thenl, and when
you wash your hands you wash your hands the soap will come
out easily. This is especiall $y$ recol mended to those who find they cannot do
garden work comfortably with gloves on.

## Spring Tonic. The following recipe for old-fashionet

root beer is recommended. For each
gallon of water to be used take $1 / 2$ ounce
each of hops, and brused each of hops, and bre used take rots of ounce
dock, yellow dock, sarseaparilla, dandelion and spikenard. Boil about 20 minntes
and strain while hot. Add 8 or 10 drops of
ail oils of spruce and sassafras mixed in
equal proportions. When cool enough
not to scald the hand, put in 2 or 3
tablespoons ycast, two-thirds of molasses,
and 1 , lb white swe
 then bottle and set in a cool place. This book belonging to a New England fascript
in whils, spring for over 80 years. The every
ends in a foot-note thus: "if taken freely by the family it will save many doctor's
bills."

Economizing Garden Space. gether; one may plan to put beans be-
tween caulififocrs or cabbage, to have
celery follow early peas, and to train
etomatoes to tomates to a fence. Many such ex
pedients will suggest themselyes, if the
garden pur
$\qquad$
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$\qquad$
"Fwery time they bark, "askeli, the

early. The bull is young and being used
exclusively in all four herds mentioned

only a very limited. number of outside
cows can be accepted. Address your ree
quests to any one of the above owners and

## Markets

$\$ 1.21$; No. $3,81.20$, and sample grades,
$\$ 1.10$ per bushel, ex, with Manitoba, Government unchanged with Manitoba, Government stanged
spring jute, ex-track, Mortreal freights and fore, in
city bakers, with Ontario flour, $\$ 10.20$ to $\$ 10.30$ per cash. in new cotton bags. White corn flour and
rye flour, 88.50 . Millfeed-Feed cor at $\$ 64$, including bags, celivered in in booted
lots. lots. Barley meal, $\$ 56$ to to $\$ 58$; mixed
mouille, $\$ 50$ to mouille, $\$ 50$ to 52 . Dairy feed, $\$ 6$; mixed middlings, $\$ 44$. Car lots of bran, $\$ 44$ to
$\$ 48$, and shorts,
$\$ 46$ to
$\$ 18$. Baled Hay.- No. 1 Timothy hay was
quoted at $\$ 29$ to $\$ 20$. quoted at $\$ 29$ to $\$ 29.50$ per ton for was lots of No. 1, ex-track. \$28 to $\$ 28.50$ tor
No. 1 light clover mixed and for timothy; $\$ 27$ to $\$ 28.50$ for No. 2 clove mixed and 26 to $\$ 26.50$ for No. 3 tlover
Hayseed -Alsike to the United States and very little per lb., Montreal. Red do 35 c. and 40 c to 55 c . and timothy 14 c . to 18 c . was 50 c . Hides.-Beef hides have advanced another cent and were 18 c . a lb. for cows skins were up to 55 C : a lb., while grasers were 22c. Lamb skins were $\$ 3.25$ each,
and horse hides, $\$ 5$ to $\$ 7$ each.

## Chicago

Hogs.-Heavy weight, $\$ 20.35$ to $\$ 20.55 ;$
medium
weight, $\$ 20.20$ to $\$ 20.50$; weight, \$19.75 to \$20.35; light lights $\$ 18.50$ to $\$ 20$, sows, $\$ 18.50$ to $\$ 20$; pigs,
$\$ 16.75$ to $\$ 18.75$,
ago choice and and compared with a week to 25 c hice her, others mostly 50 c . te 75 c .
higher;
higher; cows and heifers, 50 c . to 7 7. hight
cr; medium grades showing most advige cr, medium grades showing most advance;
canners and cutters, 25c. to 50 c , up: best fat bulls, mostly, 25 Lc . higher; bol bognas
steady steady; in-bet ween butchers' slow; stocker ald medium weight feeders, 25 c . to o 40 c
highere ;others
$\$ 1+0$ steady, 25 c . higher; calves,

Cheese Markets

ale Date
May 14, 1919.-Elias Snyder, Burgess May 14, 1919- Jos. Dorrance \& Son R. 5, Seaforth.-Dual-purpose shorthorns
June 12,1919 . - National Ayrshire Con. ignment Sale, Springfield, Mass. June 13, 1919- - New England Ayrshir

Grandson of Ormsby Jane Segit Holstein breeders who appreciate a
good sire should be interested in the good sire should be interested in the
advertisement appearing elsewhere in this issue regarding the young herd l sire
Ormsby Jane Hengerveld King, owned and offered for service by a small syndicate of Jurham County breeders. The owners
are L. C. Snowden, L. I. Metcalf, J. D. Stevens and R. R. Stevens, all of Bowman
ville and all. pure,-bred herds. Ormsby Jane Henger-
veld King was veld King was purchased last year from
R. M. Holtby, of Port Perry, Ontario, and
the servind is, we crice fee, while it is not announced abse for a sire of thisceptionally reesting. His sire
able Ormsby Jane King, is a son of Ormsby
Jane Segis Aasgie
4633 Ibs. The Jane Segis Aaggie 4 46.33 1bs. (The
great white heifer), while his dam, Dolly Hengerveld Krondyke, is a $21.75-\mathrm{lb}$. two-year-old daughter of a 31.30 -lb.-bred
grandson of Pontiac Korndyke. This breeding combined with his great indi-
viduality viduality will, without doubt, place
Ormsby Jane Hengerveld King among Ormsy Jane Hengerveld King among
the most foremost bulls of central Ontario, and breeders wishing to use a high-record
bull on a few of their best record cows

## Gossip.

The Homestead Herd of Ayrshires, Many Ayrshire breeders who are readwith the high quality of the Homestead with the
herd, owned by MacVicar Bros., of Belmont, Ont. As seen recently by a representative of this paper, they have all the qualifications of a real outstancing com mercial herd, and tust the sort their owners. Thiltedged at present numbers around 60 head, and the six-year-old sire, "Advance of Walnut Lodge, is the chinef sire in
service. As an ind ividual this bull is one service. As an ind bulls we have seen for ome time, and his sire, Advance, was a son of one of the breeds greatest cows,
Jean Armour. On his dam's side he is a Jean Armour. grandson of that famous sire "Scottie." There are now twenty-five daughters of Advance of Walnut Lodge in the herd, and they with about a dozen R.O.P.
mature cows are as pleasing a lot of mature cows are as pleasing a lot ot
breeding females as one could wish to brind. The more mature cows have nearly all, at some time or other, qualified in the Record of Performance test with
record that average $8,000 \mathrm{lbs}$. of milk records tear for all ages. In summing up this average it is only fair to add once more that the herd is at all times under strictly commercial conditions, and this
no doubt is accountable for the healt no doubt is accountable for the heath
and thriftiness of the herd as seen in the stables recently. The young bulls in the present offering are of practically the same breeding, and include several
youngsters that have exceptional promise youngsters that have exceptional promise
as herd sire material. For full particulars regarding the herd address McVicar Bros., Homestead Farm, Belmont, Ont.

Some Choicely-Bred Holsteins. There are but few herds more for-
tunate in the way of a herd sire than the splendid Holstein herd owned by Jos. Peel, of Port Perry, Ontario. Mr. Peel's
herd now numbers in the neighborhood of herd now numbers in the neighborhood of
forty head of choicely-bred Holsteins, and the herd sire referred to is the 20 months bull Gipsy Pontiac Cornucopia. Individually, we may add, he compares
favarably with the strongest buls por avorably with the strongest bults or the
age seen on the show circuit last vear, and age sed
in breeding it seems almost sufficient to
to say that his sire, May Sylvia Pontiac Cornucopia, is a son of May Echo Sylvia's daughter, and K. P. Pontiac Lass' son
Spring Farm Pontiac Cornuco ${ }^{\text {andas. }}$ Then for dam Gipsy Pontiac Cornucopia has that good five-year-old $30.71-\mathrm{lb}$. cow Gipsy Queen Rhoda. All the calves now
arriving in the herd are sired by this arriving in the herd are sired by this recently by a representative of "Farmer's Advocate," they were a choice lot. In Temates a very small percentage have
what is considered to-day very high What is considered to-day very high records. 25 here are, however, several
around 25 lbs. for mature cows, and Alice Tensen Canary, a five-year-old cow, has passed the $30-\mathrm{lb}$. mark, having made
30.22 lbs. of butter last year in 7 days as 30.22 lbs. of butter last year in 7 days as
a four-year-old. As for individuality and type this cow stands well up in the list of Canada's $30-\mathrm{lb}$. cows, and she also has produced 100 lbs of milk in one day.
She has a two-months bull in the stables that will be retained as the junior herd
sire. This calf is sired hy Mr Hardy's "champion" bull, which all will recall as the son of the great May Echo Sylvia.
There are few There are few but who will say that Mr .
Peel is 位 has every promise of being one of Ontario's greatest. He is at present offering several young bulls of serviceable age as well as a number of young cows and heifers, the
latter of which are bred to Gipsy Pontiac
Coren atter of whicl
Cornucopia. $\qquad$
Questions and Answers. Miscellaneous.

Material for Foundation.
How much cement and gravel will it take to put a foundation under a barn
30 by 75 feet?
Also a stable floor, 32 by 35 feet, and a barn floor 13 by 32 Ans.-The first foundation, built ${ }^{\text {An }}$ feet $h$ igh, 12 inches thick, and the material
used in the proportion of one to eight, will require approximately 71 cubic yards gloor of the cow stable will require about 17 cubic yards of gravel and $141 /$ barrels of cenent, provided the floor is put down
about five inches thick. The barn loo will require about $51 / 2$ cubic yards of
gravel and four barrels of cement.

# Eat more Candy 

CANDIES are among the attractive and useful forms in which sugar is used as a food."-Camada Lamcet.

Have you eaten your share of candy to-day ?
There is a certain amount due to you, you know-for your system requires it to supply bodily needs.

Eminent authorities on food state that about 4 ounces of sugar are required by an adult every twenty-four hours.
Besides sugar, candy contains nuts, fruits, corn syrup, chocolate, some fats such as butter, and flavoring. All these ingredients are recognized as useful foods and essential to the maintenance of good health.

Candy has established itself as a wonderful food product. It is no longer considered a luxury. Men and women everywhere have found it to be an ercellent food.
Because of its food value, candy was classified as a necessity for both soldiers and sailors.
While at the Front, General Pershing cabled: "Send candy if you have to omit oatmeal."
There are times each day when you feel the need for something to tone you up and restore your vigor-try candy.

Eat candy in rational quantities and nothing but good can result.

Serve Candy as a Dessert.


## "Galt" Galvanized Steel Shingles



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

We also manufacture

## Corrugated Sheets

Silo Roofs
Barn Ventilators
Barn Roof Lights
THE GALT ART METAL COMPANY, LIMITED Galt, Ontario


## TWO SILOS

moans of or overy manufacturing two silos to meet the demands and







 Biliding of these silios have CC Let ust toll youngeabie more about Nichor Rofrigerator Door Sys-
 The Nicholson Lumber Co., Ltd., Burlington, Ont. The Nicholson lumber company, Lid., Burlington, ont Wall Silos. me full information on Burlington Cable Band and Three I Wall Silos.
NAME.
${ }^{\text {AD }}$

Questions and Answers.
 depant-2uestions should be clearly stated and
planily written on one one ide of the paper only
and



 Miscellaneous.

## Horse Radish

What can be done with wild horse
radioh? Ans.- The roots may be ground and
used as a relish on the table. If desirous of destroying the patch, about the only way is to thoroughly dig out the roots
and then prevent new growth from comin o the surface. It is rather a persistent on the garden soil

Feed for Cattle-Thrush cattle, cotton-seed meal or oil cals? How much cottou-seed meal woult Is it a good feed for young cans 90, $11 /$ is

## Ans.-1. Both are good. Oii cat. considered to be slightly superit

otton-seed 2 per cent. fat, while oil ake will
somewhat less in fat. However, 11
effect on the animal's system is somewl:
better than the cotton-seed meal
eeding. We would prefer the

## Tires! Tires! Tires!

We can save you $\$ 10$ to $\$ 30$ on each tire
THIS IS YOUR OPPORTUNITY:
$B^{\mathrm{R}}$




BUY BY MALL !





Security Tire Sales Co. Toronto

remove any diseased arts the hoor and with formalin or use calomel. We We bathe found that filling the cleft with calome

## Sharing Estate.

Dolly half-brothers and sisters share the division of property?
Ontario.
a general rule, yes,
Witness' Fee.
man was charged with buying furs with out a "fur-buyer's license," and as I had sold fur to this man, I was subpoenaed, as a witness against the accused man,
The J. P. told me there was no fee for my appearing as a withes, no fee for what Am I not entitled to a fee; if so, what is it?
2. What action should I take, or should have taken to get it?
Ontario. Ans. - 1 and 2. It not being a civil case, but a quasi-criminal one, you were not and are not now in a position to

## Size of Silo.

in the centre of a mining district, in clos proximity to three towns. I purpose to put up a silo large enough to hold wist cient feed to supply 15 cows the year
around. The land is rather low-lying to 6 inches of muck on to should I build?
including board. B lives about a mile and half from A's house. He com to th place the night before he is to start days and then quit, and came back in two days' time in the evening. He has done this three or four times. Ifigure that got 52 . Can I compel him to pay for the
extra meals? Ans. $\mathbf{1}$. In order to give the 15 cows 30 lbs . of silage per day the year around,
it will be necessary to have a silo 12 by it will be necessary to have a silo 12 by
40 feet. Ten acres of corn yielding 10 tons to the acre would about fill the silo. Besides silage the cattle would requir hay and grain.
2. Unless there was a definite bargain as to the number of meals which the man was eable to collect for the extra meals which he got at your place.

## Hunting on River

We own 200 acres of land and river shallow in places, with deeper and standing water at other places. It is under contract now to improve river to drain
farm lands. It is known as the Maitland farm lands. It is known as the Maitland
River enlargement; and work goes down River enlargement; and work goes down
below us for 2 miles, and up stream for some miles. There is a cement dam
across river some 8 or 10 miles below us. 1. Would like to know if it is what is 2. Can hunters claim right to walk them? bank and hy sail on river in boat and shoot game? If I forbid parties from hunting on our own farm and they
still continue to come back, can I hold them responsible for trespassing? Where can I find out if hunters have licenses to

Ans-No waters can be legally re-
garded as navigable, unless they are actually capable of being navigated, that we judge, from your description is not a navigable stream. Assuming that it is not and that you lands extend to the middle of it-a
matter, as to which, for certainty, it would be necessary to see your title deeds -hunters would have no right to walk farm, or sail on the river, and hunt and shoot, after your having forbidden them
to do so. In the event of their persisting in so trespassing, you could prosecute them as for trespass. You would commence such prosecution by laying an information before a Justice of the Peace,
Licenses to hunt are obtained from the Department of Public Works (Game and Fisheries), Parliament Bldgs., Toronto,

Founded 1866 seased parts, and bathe
r use calomel. We have
ng the cleft with
ring Estate.
hers and sisters shar roperty
eneral rule, yes,
d with buying furs with 's license,'" and as I thad ainst the accused man,
me there was no fee for a witness. ion should I il so, n to get it? $\begin{aligned} & \text { J. D. M. }\end{aligned}$ It not being a civil -criminal one, you were
now in a position to
e of Silo
rm of 18 acres, situated
mining district, in close ree towns. I purpose rge enough to hold suffi. pply 15 cows the year inches of muck on top
-soil. What size silo at so much per day
B lives about a mile and puse. He comes to th before he is to start
upper; he worked thre upper; he worked thr
Lit, and came back the evening. He has
our times. Ifigure that ed to 37 meals, but $h$ der to give the 15 co r day the year around,
y to have a silo 12 b es of corn yielding 10 cattle would require was a definite bargair doubt if doubt if you woul on Rive
of land and river ith deeper and stand places. It is under nprove river to drain and work goes down s , and up stream for or is a cement dam or 10 miles below us. claim right lunt game if I forbid rs sail on river in
e? If I forbid parties rown farm and thoy ne back, can I hold
trespassing? Where nters have licenses can be legally ref' being navigated, our description of it, a navigable stream. ye middle of it-a
h , for certainty o see your title deeds ve no right to walk
$r$ elsewhere on your river, and hunt and
ving forbidden them ing forbidden them You would comJustice of the Peace
Jo e obtained from the it Bldgs., Toronto,

Questions and Answers. Miscellaneous.
Caked Udder.

The udder of a fresh cow is badly swollen. She also has a lump in one of huse a milking tube. Is it advisable to breed her again or get rid of her?

Ans. - Acakeduader might be remedied by applying sweet oil or goose grease and using turpentine, as there is danger of blistering. Rubbing the udder with gasoline has also been recommended. As you have trouble with a a ump in the teat, we
think it would be advisable to 0 ispose of the cow unless she is a particularly valuable one as a breeder

Destructive Cow.
I have a valuable dairy cow that is very nose or head under or through almost any kind of fence. The only treatment wire through ser nose and putting a point of her horns, or else blindolding
her This, however, reduces her milk yield by more than half. What treatment do you suggest?
Ans.-You evidently have done about all that can be done to keep the cow in her place. sold for beef, or if she is too
should be sold valuable as a milch cow for the block, the next best thing would be to keep her in the stable.

## Gossip.

Allan D. Mann, a Shorthorn breede of Peterboro, whose advertisement ap. pears elsewhere in this issue, has recent Select, a son of Gainford Marquis '(imp.) He is a six-year-old animal of excellen quality and size. Mr. Mann writes that Farmer's Advocate" the past season Among his sales is a ten-months-old bull and a two-year-old heifer to Thos. Beatty or Peterboro. D. D. Crough, of Ennis Birdsall got a fourten-months bull out o nent to P. dam. A four-year-old cow nother four-year-old to B. Crowley, of Birdsall. Mr. Mann also reports a num ber of sales of H ckneys and Leicester sheep. At the present time
are running in the R. O. P. test.

Robert Miller, of Stouffville, a breeder of Shorthorn cattle whose advertisement appears elsewhere in our paper, reports
having had a good year's business, and writes as follows regarding his sale: splendid bi young bull. To To.' John young bull. To Geo. G. Wright Ravenna, Ont., a very choice Violet bull also a Kilblean Beauty cow and heifer beautiful Jilt heifer in calf to the
champion Rosery champion, Rosemary Sultan. To Jos.
Bond, Unionville, a grand two-year-old bull, a Miss Ramsden of very choice breeding. To oo to Indiana, four splenquality, too. To Short Bros., Seagrave, Ont., one of the best imported heifers a great bull in Scotland. This is cave to of the best kind for two young start To R. W. Philp \& Son, Nestleton Station,
a Lord Lovat imported bull 13 months old, a well.bred good bull. To Chas. two in-calf heifers, both bred to the champion, Rosemary Sultan. To W. H. Currelley, a Rosebud bull and a Stampion. To T. T Cram Carletone Champion. Yo E. T. Cram, Carleton Place, a
choice young bull. To Harold Burbidge St. Jacques, P. Q., a Miss Ramsden bull from a very good milking mother, and "From every man that I have sold to, most flattering letters, saying they were more than pleased. Every animal I sell slogan, that the pedigreed scrub should females as have ever been ounned solls and temales as have ever been owned, some
of the latter in calf to Rosemary Sultan, the youngest grand champion, we have

THE FARMER'S ADVOCATE.


## LIGHTNING RODS

Nowadays it cost a lot of money to build. In 1918 lightning did upwards of half a million dollars damage to unrodded buildings in Ontario.
"Lightning Rods properly installed are almost absolute protection.

It is better far to be safe than sorry. We would appreciate your inquiries.

The Universal Lightning Rod Co'y.
HESPELER
Made in Canada
ONTARIO

HEN writing advertisers will you kindly mention The Farmer's Advocate and Home Magazine. 78 King St.

A. MA

## Alfalfa Seed


 Burnside Stock Farm Canboro,

Ontario
EGGS WANTED
POULTRY WANTED

London, Ont.


Both Make Electricity:-
the Power Station Dynamo and the Fiery little Columbias

THE big dynamo whirling in the power station makes electricity for the big jobs-to light the city; to run the factory full of machines; to propel e street cars.
The fiery little Columbia standing quietly behind the scenes makes electricity for all the little jobs-to ring bells and buzz buzzers; to make telephones talk; to run oys for the inttle foks; to ignite farm engines, autos trucks, tractors, and motorboats.
the dry battery the storage battery
THE world is so used to hav- ing the Columbia Dry Bat- tery is backed up with a tery always at its beck and call, definite guarantee that with a
 eded as a matter of course.
Yet he is really one of the velous for whet of the age-marous for his power-does-marvelhis long life.
without addititional or ant. Columbia Dry Batteries are all around you-it will be well worth appropriately called "The handy- $\begin{aligned} & \text { your while to drop in and let them } \\ & \text { show } \\ & \text { noy hou how they will save se the world." } \\ & \text { noyane and expense. }\end{aligned}$ Columinia

> FIELD Sif TIMOTHY CLOVERS ro

IT STANDS ALONE<br>THE ALBERT DICKINSON CO. CHICAGO ILL

## NORTHERN ONTARIO

ree -are calling for cultivation. Thousands of farmera have responded to the call of this fertile country, and are being
made comfortable and rich. Here, right at the door of Old Ontario. a home awaita your For full particulars as to terms, regulations and settlers ${ }^{\circ}$ rates, write to:
H. A. MACDONELL, Director of Colonization, Parliament Bulldings, T

# Top Dress all Crops with Nitrate of Soda, 

 no matter what other fertilizers you may have used - 100 pounds per acre for seeded crops and 200 pounds per acre for the cultivated ones.Money Making Books Free Fill out the counon stating what crops you are
interested in.

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Chilean Nitrate Commitee, 25 Madison Ave., N.Y Please send me FREE booklets on the use of Nitrate of Soda
ers. I am interested fertilizers. I am interested in the following crops.

Name
P.O.

APRIL 24, 1919
THIS WASHER MUST PAY FOR ITSELF



How To Run A TRACTOR

 $\underset{\text { Canadian Correspondence College }}{\text { Limited, Dept. E, Toronto, Canada. }}$
The Advocate Advts. Pay.

## THE FARMER'S ADVOCATE.

Revival of English Royal Show.
Editor "The Farmer's Advocate"
The recussitation of the English Royal Agricultural Society's Show can hardly fail to be the big agricultural event of
the present year, if only because it will the present year, if only because it will
show that the first and foremost, as it is show that the first and foremost, as it is
the most essential, of the arts of pace has once more revealed itself as it really is, rather than it has been confused in the cloudy atmosphere of political and (socalled) social discussion. The great merit of our Royal Shows is that they really represent the great British agricultural industry in all its magnitude and all its comprehensiveness, so that even the "Prize-Sheet" of the 78th annual show which the Royal Agricultural Society of England will hold at Cardiff, from the England will hold at Cardiff, from the
24th to the 28th of June next, is a better guide to what the industry is than anyguide to what the industry is than any-
thing ' we have had from our political hring we have had from our political
friends during the past four and a half friends during the past four and a half
strenuous years of confusing advice, perstrenuous years of confusing advice, per-
plexing orders "Prize-Sheet" is a closely-printed booklet of 92 pages, and it describes in detail how the large sum of $£ 10,800$ is to be distributed in prizes, in order to improve our agriculture in the details in which improvement is most possible and needed, Of this sum, t: e greater part comes from the Society itself; the other contributors being the breed societies, who give £3,547; the local Cardiff committee, who contribute $£ 1,035$; and "other sources," with $£ 50510$ s.
There are a few classes for produce, but the bulk of the prizes are for live
stock, and a glance through the prizesheet will soon give a very good reason
sher for this, as well as for the well-known saying of British farmers that "Live stock is the sheet-anchor of the farmer."
The figures and facts relating to the The figures and facts relating to the
distribution of the prize-money distrish farm live stock are of themselves, very illuminating on this point. In the figures which we give below it must be
noted that when we speak of "cclassifica noted that when we speak of "classifica-
tion" we indicate a section of the show tion" we indicate a section of the show
devoted to either a breed or a utility which is complete in itself, and has anything, from five or six to a dozen or fourteen, classes in it.
The sum of $£ 3.348$ is allocated to horses, which are classified into 12 sections, with 110 classes: $£ 2,95910$ s. is allotted to
cattle, which have 19 classifications, with cattle, which have
131
classes;
$£ 2,020$
10 s. s. is sincat set apart for sheep, these having 26 classifications and pigs is $£ 1,0575 \mathrm{~s}$., divided into seven classifications and 44 classes. Horses, cattle, sheep and pigs embrace what we
usually term the farm live stock proper, and this prize-sheet, therefore, shows us that of these alone we have 65 distinct every one of which is pure, or is being
ent improved by some recognized society for some point of utility; and all of which
make up a wealth of animal industry that no other country in the world, whatever its area, can anything like approach.
This is not all, for the Royal Agricul-
tural Society also takes a hand in the tural Society also takes a hand in the
improvement of the minor breeds of stock useful to the farmer or the small holder. given in three classifications and 13 classes for poultry, $\in 457$ 11s, is allocated to 25
classifications and 148 classes: while for classifcations and 148 classes: while for
rabbits $€ 72$ is allocated in 10 classifica tions and 24 classes. With regard to these minor species of live stock, it must
not be forgotten that the Royal Agricultural Society has for many years eliminated the "fancy" element, and all its
classifications are on lines of absolute utility.
Taking the major and the minor species that the Royal Show is thus representastock, all of which are not only of the highest standard of excellence at the present moment, the present time being developed and the present time of utility in the service


## The Man Who Buys a DE LAVAL Is Taking No Chances


$\mathrm{M}^{\text {OST any kind of cream separator will do fairly good work }}$ the first few months, when it is new
But if it is a cheaply made or inferior machine, after the first few months your trouble will begin.

And the worst of your experience with such a machine will not be the fact that it wears out quickly or that it runs are losing a lot of butter-fat that is worth 50 to 60 cents a pound.
And that is what y
this valuable butter-fat.
Any time you buy a cream separator-no matter who makes it or what claims are made for it-that has not behind it a long record of satisfactory service, a record known to all, a record that is in itself a guarantee of satisfactory service, ua are taking a gamble with all the odrs aga st you
Why take chances at all when you come to select a machine that may mean so much in increasing the profit from
your cows?
There is one cream separator that has been the acknowledged world's standard for over 40 years. It's the one cream Dairy farmers the country over know the De Laval and its sterling quality. Experience has shown them that

It is the best cream separator that money can buy



THE DE LAVAL COMPANY, Ltd.
Sole manufact


MONTREAL PETERBORO WINNIPEG VANCOUVER

## Let This Engine Save Money on Your Farm

Money saved in labor means greater profits on production. That is the purpose of the "Z" Engine on your farm. It means work done quicker, better and at less cost than by the old methods.

## A 6, 3 or $1 \frac{1}{2}$ Horse Power <br> "Z" Engine

does its work day and night at the lowest upkeep cost because of its simplicity of construction and its fuel economy. No matter for what purpose you want power on your farm investigate the " $Z$ " first - the engine that meets the farmer's needs.
Your local dealer can tell you about the " $Z$ ". He sells it; he is the direct representative of the manufacturer and he, personally, stands behind each engine he sells to see that the purchaser gets the fullest satisfaction. Ask your dealer or write today to our nearest office.


# (5) The Canadian Fairbanks-Morse CO., LIMITED 

 $\stackrel{\text { \#" }}{=}$St. John
Toronto
Quebec
Hamilton
Montreal
Windsor
Ottawa

## BOYS

BUY THIS HAND CULTIVATOR DIRECT FROM THE FACTORY

For hand cultivating loosening up the soil, making earth ready for Garden or Flower beds, and


When writing advertisers will you please mention From the time we learned that we
were to form part of the army of occupa tion on the Rhine, numerous questions aros in our minds as to how we questions
received by our be received by our enemy the Huns, upon
our entry into their beloved F our entry into their beloved Fatherland.
There seemed but one solution There seemed but one solution to
these questions, namely that their attitude towards us would demand our being able conflicts. We used to of probquently concerning the subject of frereception, and there were not a few who resolved to be always on the safe side, by carrying somewhere on their person a handy weapon of some sort, in case
necessity demands its use as little as possible in conversatioge pertaining to the great war
I have been fortunate or unfortunate
(opinions varied greatly (opinions varied greatly as to which, especially among those who covered the journey on foot) to miss the long route
march through Belgium with all its interesting events and rith all its pared by the civilians for our soldiereas I happened to be returning from pleasant two weeks leave in gay Paris,
my journey being made by train or lorm my journey being made by train or lorry
and by frequent walking as circumstances and by freq
warranted.
On a bright December morning aboard we pulled out of the square in the Bel gian village of Stavelot, our last stopping place on the friendly side of the frontier. As we hastened along the road, numerous of the houses helped to from the windows sensation which arose within us, as we wondered whether or not we were still in Belgium or had crossed the frontier into
German territory.
We travelled along through the silent valleys hemmed in by rolling woodlands a noisy brook came tumbling down to accompany us by the roadside for a short distance, soon to be lost in the dark evergreen forests; suddenly a steep grade would be encountered, which hecessitated a slow, monotonous climb, we would succeed in reaching the summit, getting a glimpse of numerous towns and villages, dotted here and there throughout the broad expanse of country, but only for a short time in most in-
stances, then down a narrow winding road into the solitude of the valley below. nicely settled down to the ordinary steady run once more when one of the lads suddenly shouted out, "'rurrah
boys, we are at last in Germany." Silence reigned for a few minutes when one chap. reigned for a few minutes when one chap.
remarked, "well fellows, who would have thought it last spring eh?
member in the company was a French Canadian who lamented the fact that though he had been able to speak the French language in France and Belgium
(for this is the language spoken in a large portionof the latter country)he was now as helpless as the rest of us as far as talking was concerned. After soundly assuring him that he was simply having a taste of what some of us had suffered and undergone for a few months after crossing the
channel when we first mingled with the French inhabitants, we settled down to study the new situation in which we found Our first experience was when we
halted in front of a cross-road and by halted in front of a cross-road and by
the side of a farm yard, not knowing exactly which one of th $\geq$ roads to follow. We had previously been told that the French language was spoken for some
distance over the frontier, so we decided that our French speaking companion go and enquire of the fraulein and her The rest of us could poinly $s$ e what was going on, and with a look of contempt they coldly replied in a couple of German Whether r not they could speak French we have often since wondered (although 1 amm inclined to think they could); how-
ever it was useless to speak to them, so which fortunately proved the correct one. I may state that this was the only
instance where we found the German as we had expected him to be. At railway stations, in railway carriages, or
wherever we we e, he used us in the most courteous manner possible. A
noticeable feature during our travels

## Frontier.

we learned that of the army of occupaas to how we woultions nemy the He would be but Fioved Fatherrand one solution to ould demand our beitialert in case our being
We . Ne used to of olk pro e were not a few our vays on the safe side, of some their person its use; also tin case ible in
reat war creatly as to which 0 miss tho covered the elgium and recentions be returur soldiers, leave in gay Paris, laing as circumstances e square in the Bel side our last stopping the road frontier: ed from the windous to combat that odd Inot we were still in
sed the frontier into through the silent often from which the timbling down to to be lost in the countenly a steep monotonon, which steaming engine eaching the summit, ${ }^{\text {en }}$, here and there
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most disappointed d the fact that nce and Belgium try) he was now as soundly assuring
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companion in and her destination. of contempt understand. (allthough
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April 24, 1919
"Edgegrove" HOLIDAY (1)

Build From Froe Plann
 of Materifal, abbotutely free of charge-our Buy Building Matooripl at Factory Get our Builing Materifios direct from

 to get our catalogue before going
 THE HALLIDAY COMPANY, Limited Hamillon Factory Distributors Canada

## FEEDS



7E $\bigcirc$ JR ID


Streamline Hood Ony sin. Coreas Brase Raditator.

Clydesdale For Sale


PROUD CLARET

THE FARMER'S ADVOCATE:
districts. Apparently nothing was waste
and every available bit of land was under cultivation.
It was interesting to see the crowds
civilians gather to watch the Canadia
S $S$ ottish battalion pass, their kilts swinging in unison as they marched to
the strains of some rousing Scottish music, that kind that carries a Scotch man back to his native cottage amongst
the glens and heathered hills of one of Although they marvelled at what to then was apparel more suitable for women Scotties "ladies of hell") still there was something about the music and the fine
appearance of the men that struck new life appearance of the men that struck new life
into the hearts of even the broken hearte Germans who must surely have realized
that defeat was the result of their putting into practice the foolish idea that might Next day I joined the corps, and after remaining for a few days we all started
in lorries for the beautiful city of Bonn, on the Rhine, where the headquarters
of the corps were located. As we passed down the wide, clean streets of this city in front of whose famous university, on the Hofgarten, the ex-Kaiser frequently reviewed his troops, the inhabitants
gazed at us rather in amazement but were quite courteous towards us. We they had hear in fact we were regarded as next to
savages. Every soldier was armed and the first thing to do was to teach the
Hun a thing or two just to make him aware that we were as part of a con-
quering army. For instance the street car conductors on their cars free of charge a simple grasp. Movements of the people we restricted, and everyone had to be in
by a certain time nightly. Men had to pay compliments to officers and salute stance of a big Prussian officer meeting a Canadian officer on the street, and
giving him a proper salute; however he was no sooner by than he made a certain
sign to the same officer which no sign to the same officer which no Cana
ian would have tolerated from a Prussian. A sort of I-put-one-over-h
filled his face, but he hadn't reckoned $v$ ith a private who had witnessed a the jaw that he fell unconsci- usly to the simply lifted the helmet from his head
as a souvenir and proceded down street
leave As time passed, the restrictions on and they found the Canadians were not
savages as they had expected, but gentlesavages as they had expected, but gentle-
men who demanded plain civility from It seems to me there were three main
It as to allow orchestras in some of the best
theatre in the city, to play, "Britannia Rules the Waves, and similar selections
namely (1) they were a fraid of the
conflicts such as in Berlin, and cities
and towns just outside the occupied o preserve order, regarding us as the
$\qquad$ realized that having lost a
the wisest plan wa to knuckle down and
forget the past years of misery and bloodshed.
Several weeks have passed since we again crossed the fro ter, this
the opposite direction into Belgium
never frget, but one is obliged to wonde
how we would have fared had the Crer mans
been the victors, also to conclude after
having seen and propert y that after all
both to lives and
the Germans are getting off too catily.
reader, gives the following recipe, which
he has found succesful for the removal
of warts: A cupful of soft water, a
tablespoonful of soft soap and two tea-
spoonfuls of salt, mixed together and ap-


HET LOO PIETERTJE 38502. Sire Pontiae Korndyke Hot Loo. World's
Champion Junior Two-yearold for Butter for Soven Thirty and
Sixty Days.
Would You Like a Son of This World's Record Heifer for Your Next Herd Sire?
We haven't got them-but we have got several ready for service from sisters of this great heifer. For instance, there is a 14 months youngster from a $20-\mathrm{lb}$, two-year-old sister, and each of these heifers again have $30-\mathrm{lb}$. dams. These bulls are both sired by our $\$ 5,000$ son of King Segis Pontiac Alcartra (the $\$ 50,000$ sire). Still another by this sire is an 18 months' cal a cheaper bull) from a $19.37-\mathrm{lb}$, cow. Then we have one 13 months son two-months' bull by our junior sire, Sir Pontiac Echo Het Loo, and from a 30.05-1b junior 3 -year-old daughter of Pontiac Korndyke Het Loo.

If you want a herd sire, write us about these bulls.

Note.-It might be of interest to "Advocate" readers to know that oo, in our stables, has recently broken the Canadian junior three-year-old championship record for butter, with 33.71 lbs. in 7 days. She also made W. L. SHAW, , Rex moit Farm Newmarket, Ont.

## SHIP US YOUR CREAM <br> MT E $\begin{gathered}\text { Supply Cans and Pay All Express Charges. } \\ \text { within a radius of } 100 \text { miles of Kitchener }\end{gathered}$ - within a radius of 100 miles of Kitchene Pay Every Two Weeks. <br> WRITE FOR FULL PARTICULARS ROSEDALE CREAMERY CO. Kitchener <br> Canada <br> chener - Cana

USE

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For Sale. Choice Clydesdale Stallion


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## Healthier Horses






Messrs_A.d.Hiekman \& ©o.
Haloo Grange Brackloy, Englend (lato of
Erportera of all bred of of sobk, raft horese, beef



Clydesdale Stallion FOR SALE

 r.r. No. 1

GUERNSEYS FOR PROFIT

##  <br>  <br> Sunnyside Herefords <br>   

Sunnyside Herefords

R.R. No. 4 s. M. H. O'Neil \& Sons FOR SALE

Questions and Answers. Miscellaneous.

Toadstools in Hot-bed Last year the plants in my hot-bed
were greatly upset by what we suposed were toadstools. How could this be prevented?
Ans.-It is altogether likely that an insufficient depth of earth was used in the hot-bed. It is probable that only
about three inches were used inches of soil had been used dit is nop
likely
that this dififulty would have
occurred. Mange.
My veterinarian informs me that pony has been suffering from manily
What treatment do von advise? mang

Ans.-Mange is a trouble that is dififiparasite, and to to to this severeal treatments
pat paraste, and to do this several treat tment:
at intervals of two or threa dut given for a period of thee days must be beeks. Clip
the hair and then wath the
 in necessary to remove the scurf. Aply
ing one part sulphur to three parts lard sonectues proves effective. One part
creosote to twenty parts linse. thirty parts soap solution is another
remedy which is recounnended Boactommended Boarder Hens. Ilave a flock of hens and feed then
whole grain wheat, oats and ther mixed, Elas gran wheat oats, and barles
milk or wateranco choped, mixed with milk or water once a day. Mangolds are
fet daily with an occasional cabbaze or turnip. They yave laid well, but out of
tr hens one year old and over a number
are are pady swollen below the vent. A flew
of the worst are very red and inflamed tagious the trouble hereditary or con-
rencedr) and whlat would be the best affecter? Would you advise killing birds ss
$\qquad$ lay. well. 1 . 1,2 and seenl quite healthy and
Ans. 1 am under th
 if at all, durins that have not laid well
laying hen is usually niter month.

 respect that the difference betwary in the thin high
aning hen and a pond
 chance gos to the production of interna
it
"which would
produce a
and
contition

Imported and American-bred Percheron and Belgian Stallions and Mares






These horses are on exhibition at the FAIR GROUNDS, LONDON
pleased to show them to you whether you purchase wo whe be
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of the highest quality and individuality. Our record at quality and individuality surpass all competitors, for sale males should be pleased females of all ages, and should be pleased to hear from prospective
buyers of quality Clydesdales at any time.

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Brookdale Herefords


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APRIL 24, 1919


Alloway Lodge Stock Farm Angus-Southdowns-Collies
 Robt. McEwen, R. R. 4, London, Ont.
Springfield Farm Angus
 other calves younger, and could spare a few heifere
eafly bred to same sire Bollwood c. QUARRIE

SUNNY ACRES
ABERDEEN-ANGUS


Aberdeen-Angus

|  | trouble may be due ns. The calves may not be ation, they may be suffering |
| :---: | :---: |
| $\underset{\text { Manager }}{\substack{\text { onzo } \\ \text { Mathens } \\ \text { Propriotor }}}$ | on a propizestion, or may be infested with armin The latter can be remedied by |
|  |  |
|  |  |
|  | Giving the calf a little lin |
|  | fee |
| Kennelworth Farm Angus Bulls |  |
|  |  |
| dired |  |
| Thompsorn, Hillsburg, Ont. | be allowed to lose their calf flesh. Be |
| n- |  |
|  |  |
|  |  |
|  |  |

## High Cheese and Butter Prices

ORLD food conditions are such that high
prices will likely stand for some time to prices will likely stand for some time to come. Dairy farmers do not need to figure whether it is most profitable to sell cheese and butter, or raise their calves. They do both when they use

## CALDWELL'S CALF MEAL

because it is very rich in protein and is a very com plete substitute for whole milk

The high quality ingredients are guaranteed to the Government. They are linsead, wheat, oats, corn, locust-bean, pea meal and oil cake.
Your dealer most likey carries this meal, if not. we can send you the address of the nearest dealer who does, or ship direct-Write us

THE CALDWELL FEED \& CEREAL CO., LIMITED Dundas, Ontario

We operate the largest exclusive feed mills in Canada-and make all kinds rations you requir

## ABERDEEN-ANGUS

We are offering several very cho:ce young bulls of the best breeding. Will be priced LARKIN FARMS
QUEENSTON
Oh, Boys! Hear About Ft. Worth, Brandon and Oklahoma City

 Fort Worth. They also won at the Iowa. State Fair, at the Sioux City Inter-
State Farir, at the Indiana-Ilinois Fair, nd at the world
International at Chicago. Write for Boys

AMERICAN ABERDEEN-ANGUS BREEDERS' ASSOCIATION
ELM PARK ABERDEEN-ANGUS
ur Herd has been shown from Haliax,


KNIGHTON LODGE STOCK FARM

Robert Miller, Stouffville, Ontario
Has EIGHT of the best young burs shat he had with alves at foot, others in calf beautifull vultan, the Grand Champion bull at head of the herd. Everything of Scotch breeding. The prices are

## TWO SHORTHORN BULLS

## 

## SHORTHORNS, CLYDES


$\square$ Walnut Grove Scotch Shorthorns Etatabibed 1840. Gain


## Choice Shorthorn Females

## 






SOUTHVIEW FARM SHORTHORNS




KELMSCOTt ACRobat 4 (126217)
The Kelmscott Herd of Pedigree Milking Shorthorns, Flock of Oxford Down Sheep and Stud of Shire Horses

## he property of

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## SHORTHORN CATTLE

One of the oldest and largest pedigree herds in
existence. Milk, Flesh and Connetiturien Daily milk records kept. Numerous prizes won for




 OXFORD DOWN SHEEP
The flock was established in 1868 and consists
of
Numorm 1,000
and
1,250
rexistered
Oxfords. tumerous prizes for many years have been won
t the principal Shows. Att the last Royal Show
 W. Hobbs \& Sons are


English Dual-Purpose
Shorthorns
54:
Prics. and up. Eng vish Large, moderack
IYNNORE STOCK FARM
Mardella Shorthorns


thos. graham
The Hawthorne Shorthorns,

MAPLE LEAF FARM


## Canadian Council of

 Agriculture.The annual meeting of the Canadian Council of Agriculture was held in Winnipeg, April 1,2 and 3. The following members of the Council were present: President H. W. Wood, in the chair: R. McKenzie, Vice-President, John Kennedy, J. R. Murray, F. J. Collyer, representing eastern section of the United J. J. McLellan, R. A. P; C. Rice-Jones, ing Iwestern section of United Grain Growers' Limited; Hon. Geo. Langley, F. W. Riddell, W. J. Robinson, representing Saskatchewan Co-operative Elevator Company; J. B. Musselman, A. G.
Hawkes, T. Sales, R. M. Johnson, representing Saskatchewan Grain GrowAvison, Asociation; W. R. Wood, Peter representing Manitoba Grain Growers Association; P. Baker, H. Higginbotham, 1. Greenhelds, representing United Farm Burnaby, H. B. Co Morrison, R. W. E M. Doherty, representing United Farmers of Ontario and the United Farmers' Co operative Company; and G. F. Chipman and W. J. Healy, representing the Grain The main question before the con vention was that of political action on
the part of the farmers occupied considerable time, and created of this discussion are emboided in the following resolutions: "Whereas the platform prepared by the Councit has been adopted by each of the
provincial associations in membership; "And whereas in response to insistent Council in rut their members before the ing to definite political action. this. Cow, therefore be it resolved that vincial associations that they take immediate and energetic action along such
lines as, in their judgment, will bo lines as in in thective in securing the election to parlia-
ent ment of members;
"And further, that an earnest effort
be made to secure the co-operation of se made to secure the co-operation
supporters of the principles of our plat
form, outside of our organizations, in th
$\qquad$

## Makes Milking a Pleasure

1 EARLY every dairyman hates milking. He hates to sit beside a warm to beat the dickens and the cow's tail continually switching his face. It's no And then, too it takes
should be spent in the fields, especially now
when labor is when labor is so scarce. And yet, the task of
millking can be made the easiest, most able job on the place with ast, Emost enjoy-
recognized standard ampore- the It enables song milking machines. to do all the milking alone while you and your help spend those additional hours in the yourd.
Furthe Furthermore, the Empire Super-Simple Piston-
 Other milking machins Other milking machinss, having the piston type
Thlsator leak vacuum $=$ Thls the pistises an irreg wears.
 ing in an irritated, nervous cow, with the attendGet This Book Send for our 1919 Catal
No. 11 , before purchasi chine It of milking ma- mating many
facts about milkers that
oun should you should know. Its tha
yree
yrite for it. Ask for THE EMPIRE CREAM SEPARATOR COMPANY,


MILKING MACHINES
The Salem Herd of Scotch Shorthorns

ato and other large exhibitions thane those of any as femestes brill have to a few sons to offer, as well<br>J. A. WATT<br>Elora, Ontaric<br>

## thane fore

Dual-Purpose Shorthorns
SPRUCE GLEN FARM SHORTHORNS

## WILLOW BANK STOCK FARM

SHORTHORN CATHLE ALD LEICESTER SHEEP. HERD ESTABLISHED 1855-FLOCK1 188 . ome bred. JAMES DOUGLAS. CALEDONIA, ONTARIO PIM And ewes all ages. Imported and
Beach Ridge Shorthorns and Yorkshires -shorthorn herd headed by Sylvan pooper


Shorthorns Landed Home Myrte, C.P.R.; Brooklin, G.T.R.: Oslawa, C.N.R. den. Whimple. etc. Mated strains as Princess Roure 12 yearling bulls, 7 cows with calves at foot, 24 hefif
GEO. ISAAC.

APRIL 24
be most de of the Can
"Therefc Dominion
Alberta an
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Naturally siderable two other
Dominion "The Can here assem of parliame financial pro of Canada, the economic
the war, pro T12 per cen
reduction in as set forth believing th struction wil seriously an
ing the unfa the consumi Canada, de system of ra direct taxatic
"That in v mediate Dominio stantial red
along lines National Pla the tendency ind by refe "Be it re unalterably effect of wh definitely in assume to tall

## Pleasure



Shorthorns
$\square$ PREMER
ve wo more
Elora, Ontario
 year-old C Cyydestalas stillion

## rns


RTHORNS
DUNDALL, ontarlo RM
 all ages. Imporect and

 exeter, ontario

 Augusta, Miss Rams
e most detrimental to the best interests n people
"Therefore, the Council urges upon the Domision Government in the stronges Alberta and other parts of Canada be held as the property of the Government in perpetuity, that the Government undertake the cost of developing these great natural resources for the benefit of the consuming public, an to private of these properties be leased the leases should be granted only fter full publicity has been given to the proposals under consideration and then only for short terms, and after the rights of the public have been fully protected under such leases
"And further, this Council would request the Government to supply full information regarding any concessions that with these oil deposits, if there be any such."

Naturally the tariff came in for a considerable discussion, and the following Dominion Government on this matter: "The Canadian Council of Agriculture here assembled, urges the
Government during the present session of parliament, to incorporate in its financial proposals for the rehabilitation of Canada, following the expenditure of the economic power of the country during
the war, provision for the removal of the $71 / 2$ per cent. war tax, and a substantial reduction in the present protective tariff as set forth in the Farmers' Platform, believing that no fiscal policy of reconseriously and specifically which does not ing the unfair burden of taxation upon the consuming and producing classes of Canada, developed out of the existing direct of raising federal revenue by in
"That in view of the importance of immediate action being taken by the Dantial Government to make subalong lines laid down in existing tariff National Platform, and having in mind he tendency of past Governments to ind by referring action in matters of this commissions of one kind and another; Be it resolved that this Council is taken by the Dominion Government the effect of which will be to enable the rovernment to postpone action in believe the Government, in which we pared to take immediate should be pre ssume full responsibility therefor.'

Daylight Saving.
Other resolution
representing the parliament of Canada, whole, including those resident in both given official expression to the over Canada to the re-enactment of the Day way War Board in ignoring the resolution companies of Canada to advance they time tables one hour to agree with the
time tables of the United Statec, effect, constitutes a defiance of the expressed wish of parliament and of the has created great confusion throughout many municipalities to adopt Daylight venience regulations to the great inconin the community; Council of Agsolved that the Canadian on behalf of the organized farmers of
Ontario, Manitoba, Saskatchewan and Alberta, numbering more than 100,000 possible protest against allowing the rail-
ways of conges expressed desire of the parliament and people of Canada, and would urge upon hecessity for taking immediate actiont the uch the Government of Canadion to sary steps as may be required if neceso rescind its order, and thereby ensure


Three Requirements for Good Cows A Clean Chum EReliable


## Calf

## Enemies

## WHITE SCOURS

 BLACKLECYour Veterinarian , can stamp them out with Cutter's Anti-Calf
Scour Serum and Cutter's Germ
Free Black Free Blackleg Filtrate and Aggressin,
or Cutter's Blackleg Pills. Ask him about them.
hasn't our literature, write intormation on these products. Berkeley, Cal., or Chicago, III.
"The Laboratory That Knows How"

Europe Wants HOLSTEINS
 tion BREED WHAT THE WORRDD
WANTBS
HERD, BUY YOU CAN'T HEIFER. BUY A Information from the
HOLSTEIN-FRIESIAN ASSO President. Dr. Sis Fin association

## Holstein Bulls

R. M. HOLTBY<br>Fairview Holstein-Friesians

<br>$\underset{\text { MRED. }}{\text { Mossley, }}$ Ontario

THE FARMER'S ADVOCATE
in this matter in accordance with
dectared desires of the great majority
the peonle of
Express Rates.



 need on the para to the express companies
for the
reiterate onereaed orevenues
ticsire proposed increase. In our opinition a to thea
injustice would be perpetrated upon the
in Canadian people by the fixation of rates
based upon present cost of operation of
these carrying cont needed settlement on our farm lands of
returned soldiers and returned soldiers and agricultt
grants, would be discouraged."


Terminal Elevators
terminal ellevator knowing that the
excessive, excessive, the Canadian Council of Agr
culture cannot state their opinion, would becifically what, in best adjust
ment of the terminal "The Council, however, recommends excess overages, no terminal elevato
should be allowed to retain any above one-quarter of 1 per cent. of the
gross amount of each kind of grain handled minion Government should take any therefrom to be applied to the elimination of inward grain inspection and weighing
charges, and the creation of a fund that
would be would be used for payment to the ele
vators of part of the terminal tari
charges in order to reduce such "Further, the Council is emphatically terminal elevators, after the above pro-
vision is made, is excessive, reduced or storage charges should be Grain Speculation.
$\qquad$ and passed a resolution, asking R. C.
Henders, M.P., to introduce in the Manitoba Legislature, at its presen
session, by W. R. Wood, ceeded with on the ground that suc of the province, as defined by the Bowe
Vorth Ameritisa Act. The resolution als parliament to support the hill when it Live-Stock Matters.


Premier Echo Sylvia DeKol No. 38053



H. H. BAILEY Mance or extending pedigree and price,

At Service-Son of Ormsby


 R. R. STEVVENS $\quad$ Sownan

33-LB. GRANDSONS OF LULU KEYES
 D. B. TRACY (Hamilton House Farms) COBOURG, ONT.

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The Bull is the first consideration
 Jos. Kilgour, Eglinton P.O., North Toronto Manor Farm Holstein-Friesians
 GORDON S. GOODERHAM, Clarkson, Ont.

## Highland Lake Farms

## R. W. E. . BurNaby

JEFFERSON, ONT

RIVERSIDE Mcoubm, oxtord County, Bell Phone, Tillsonburs, ont.
\%.




Ristock. ontario
6 BULLS BY ESCANNA FAVORITE

Alluvialdale Stock Farms Offer For Sale

Founbed 1866

## CO. OF CANADA <br> UR ANCE CCIDENT OR DISEASES  Ectuses <br> $\underset{\text { real. }}{\substack{\text { LSS. } \\ \hline}}$ <br> in-Friesians


 D. RAYMOND, Owner

## INSANE

NTARIO


## Kol No. 38053


stock farm Y Jane King


manville, Ontario

## ULU KEYES

sife King Korndye Saile
cobourg, ont.

## Isteins!

eration!
 rth Toronto
Friesians

arkson, Ont.

## Farms

## for heavy service. Price

 FFERSON, ONT
## 

Phone, Tillsonburs, Ont
CE BULLS ao has of miks per ony and
 ais yongsetis is a grat ing
 Wiwte at one lor pipem TAVISTO
ORITE
 bell wood. ontario or For Sale


THE FARMER'S ADVOCATE.

Questions and Answers Miscellaneous.

Warbles-Feeding Cattle. My cows and young cattle have large, white grubs on their backs. What will 1 do fer them and what will prevent this?
2. Is a disk drill with 6 -inch spacing 2. Is a disk drill with 6 -ind
preferable to 7 -inch spacing? 3. How many times a day do you advise feeding cattle grain? If only once, is it better to feed at night or first thing in the
morning? Are oats better ground or fed morning? Are oats better gro
whole to calves and cows?
Ans. -1 . The cattle are troubled with warbles? Squeeze the grubs out and
destroy them. This will prevent them destroy them. This will prevent them
developing into flies to propagate the developing into flies to propagate the
pests another year. Little can be done to prevent the cattle from becoming infected.
$\xrightarrow[\text { 2. Either } 6 \text { or } 7 \text {-inch spacing would }]{\text { give very good results. The wider spacing }}$ give very good results. The wider spacing
permits of more root space for the plants 3. It depends on the class of stock frequently feed three or four times a day. For the average herd, or for young stuff or feeding steers, twice a day feeding ing the stock along, a little grain in the Morning might keep them in good consuitable. We prefer rolling the oats.
Leaky Teat-Summer Pasture. 1. What treat ment do you advise 2. I would like to seed a field down this spring for summer rasture. Would
you recomnmend sowing millet? $\underset{\text { calves? }}{\text { 3. What is the top weight for veal }}$ 4. How long, should a cow go after
freshening before being fed? Ans. -1 . It is sometimes difficult
oo stop the leak.
Some recommend


We have doubled our factory capacity and are determined to supply our customers far and near. See ad. also on page 846

## FOR SALE


Both these young bulls are in srand condition.
W. A. JENKINS MFG. CO. LTD
LONDON
ontario
Choice Offering in Ayrshires
 NA. MORRISON, Mount Eletn, Ontari Chencairn Ayrshires $\begin{gathered}-\mathrm{He} \text { erd establishe } \\ 40 \\ \text { years. Producin }\end{gathered}$


## Westside Ayrshire Herd

 CITY VIEW AYRSHIRES
Bulls ready for service. Bull calves, some
 served at ofresen
Thomas, ont.

Homestead Farm R.O. P. Ayrshires

inserting a milking tube into the teat and then scarifying the skin near the
opening. The edges of the hole may be drawn together with a few stitches and dressed with a healing ointment. This should be done by a qualified veterinarian
when the cow is dry. when the cow is dry.
2. Oats and clover make a satisfactory summer pasture. 3. As a rule, butchers do not like
veai calves to weigh much over 200 pounds. After a cow freshens it is good
4. practice to give her a warm drink, a
pound of salts and a bran mash. A mash and hay would be sufficient for the first day, and then it would be quite
safe to start in with the regular ration. If the cow is a heavy milker and there is any danger of milk fever, it is well to withhold the heavy feed for severa days, and then start in lightly and gradual-
Iy increase until the cow is on a full ration.
Sweet Clover.
clover on the surface of old timoth sod which is in fairily good condition? 20? Can it be used as pasture by the first of fuy? crop to sow to plow down as fertilize to build up the land? 3. What is the cause of a sow eating her young pigs?
Ans.-1. Sweet clover would no doubt catch if sown on timothy sod and there woul 2. Plowing under a crop of buckwheat would add humus to the soil, but plowing under red clover or siveet clover woul the nitroten content of the soil 3. This abnormal condition is due largely to the sow being in a fevered condition, which in many instances is caused to too cose cons nement on a
heating ration Feeding lightly laxative ration before farrowing and for a few days afterwards is advisable. Roots bran and oats make a very good ration It is also advisable to feed some minera
matter, which may be given in the form matter, which may be given in the form
of charcoal, wood ashes, salt, and sulphur.

## "Royal Purple" Calf Meal

Any Farmer can increase his income by selecting one or two calves each season to make baby beef



Made by THE W. A. JENKINS MANUFACTURING COMPANY, LIMITED, LONDON, ONT.

THE FARMER'S ADVOCATE.


E
(7EY'RE more than $\begin{aligned} & \text { just overalls-they're }\end{aligned}$ just overalls-they're
exceptional for comfort, long wear and least mending. Reinforced, a the wearing points. Buttons can't wear off. Ask your dealer for "Kitchen's," and insist on having our "RailThe Kitchen Oyd Shirt Kompany, Linnited Brantford, Ont.
Kitchen's
"Railroad Signal"
OVERALLS
Cream Wanted
Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guarantee high.

Ontario Creameries LONDON

## Cream Wanted  prepared to pay you hith hest twe treet price paid. We furnish cans and

Mutual Dairy \& Creamery
Toronto
Ontario

## OT JERSEYS Paldcuin白

Will Sell Few Fresh Jersey Cows





lerseys and Berkshires

Questions and Answers. Miscellaneous

## Charconl for Pige

coal fed to hors of any benefit?
Ans.-- Feeding charcoal and wood ashes
 Preserving Eggs
 preserving egss a second time the follow
ingseason?
J. W. B.
keens .- -1 it is possible that the eggs would
cight, but for all the wate
costs it
 ${ }_{\text {Lecond time. }}{ }_{\text {Lump in }}$ Tent
What would you advise doing with a
cow that is lard to milk in one There sems to be ma krowth or or tumor
in the
 may operate successtully, especially if
the lump is near the point of the teat
the


Sweet Clover for Pasture
Could sweet clover be sown with oats
thate to be pastured of tin the summer?
Woulld dweet Would sweet clover stand close curopering
by sheep? to Ass- - It would be quite satisactor
pastur the sweet clover with onats pasture. The sweet clover will stan
fairly close pasturing hoverer tho of the plant must not be destroyed. I have Lump on Colt's Leg, inside of a colt with a soft lump on the
in ther leg. The colt is
he Ans.- - Bathe the lump with hot water
and if it contains fluid it might be well



Is sweet Clover For Silage.
Ans,-Sweet clover has been usi

and is quite readily eaten by by ve value
When it is taken out of the silo ot tock
and if the weather is catchy around hayeving
time it is one method of saving the crop,
and of realizing on
$\qquad$
$\qquad$ Ans.-Give the iodide of potassium
Ccatment three times daily with one dram dimes daily. Commence
dose by one-half dram undin thease the refuses food and water. Fluid runs final
the ecyes and mouth and the skin becomes
sciuly come well marke of these symptoms
 operation sissect the tumor out out The this

## Crippled Pigs.

 have become plags nine months old whichthem salt, asheme and have been giving thenly salt, ashes and charcoal and they
seemed to be getting better, but now one
of them has lost thio uco of but and out chop, ann now feeding barle
although when they firs
tarted going lame I was fecting arted going lame It was feeding firy


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Oung bulls of the abo $\qquad$
$\qquad$

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## Our School Department.

The Model School Garden Teachers have requested us to publish
the plan of a school garden but it is the plan of a school garden but it is
very difficult to suggest a plan that will very diflicult to suggest a plan that will
suit all teachers and all conditions.
However, we are However, we are reproducing here a
plan suggested by L. A. DeWolfe MSc Director of Rural Science Schools in
Nova Scotia, also his remarks concerning it. This should be taken as a suggestion
only. Mr. De Wolfe's comments are found in the following paragraphs.
The ideal school garden can seldom, if
ever, be realized proach to it, however, is often possible. The accompanying diagram suggests
one of the many possibilitite diagram, however, must be modifed to suit the size of the school grounds, the number of children, the ambition ond the exposure of the of the ground,
and to sunlight and prevailing winds. The diagram is drawn to 20 feet to the inch. The left border is of Japanese roses (Rosa rugosa) will require about four feet. In front of that can be planted about thirty rose bushes varieties. of ten or twelve popular a solid mass of rose bushes one border These borders are to
Therefore, they are planted permanent. and perennial flowers. The back sorder is an exception; for if it be planted with native shrubs, trees and ferns, the cul-
tivated lowers will slowly be crowded out. For that reason, sweet peas and other
tall annuals or biennial or a few years until the wild border is Yor a few ye
established.
In the
are placed every ten feet. flowers occupy the space between and
around them. The names are written parallel with of the shrubs diameter of the garden. Bla shorter and raspberries make a useful border for the remaining side. The garden proper
should have flowers. vegetables should have flowers, vegetables, grains
and small fruits. The diagram shows the distribution of these. diagram shows In planting the flowers, I would not bed and the next, I would leave flower two feet wide. Thus, for early weeding
and cultivation, the children
around every bed. When the plants
are full-grown the are full-grown, the paths will be losts
but at that time among them. The one needs to walk plots are sufficiently thews in the centre from the path that surrounds the admired flower garden. In fact, there are whole four plots that do not border this patly In the vegetable garden, the rows and aniformly twenty inches apart. As calli mower and brussels sprouts should have comes between. These a row of radish before the other These will be gathered extra room. For the same need the beets come between kohl-rabi and turnip and early peas and radish border the rows of tomatoes. This will iilustrate Successive crown as companion cropping, Successive cropping is illustrated where lows spinach, or tomatoes follow radid folFurthermore all mes filow radish. bage family are planted togethe cabwill make more convenient the contro of the cabbage worm. Extra rows of beans and peas will supply abundant material for demonstration in canning tables are intro. Moreover, some vegegeneral cultivation on thin are not in Thus the school becomes home farm. mental station for novelties exper Possibly one should specify varieties of That vegetable and flower recommen led advantages sots advantages and disif she could Some mechanical teacher, mended would not plant enety recombetter, I think, to get bulletins and reporta from the Department of Agriculture Ottawa, or from the Provincial Depart ments, and select from the varieties The size successturly tested. s 100 feet by 80 feet. Deducting borders and outer path, the Dermanting borders is 72 by 57 . In a small school, this could be reduced, making every plot half size and every row half length. than to omit any parto reduce the size Where this garden would exist year varied. Crop rotation fhowld be would be Out of the many possibilitites, therefore, the diagram suggests one not to be followed literally; but to be adapted


## rtment.

bed. When the plants
the paths will be time no oone needs be lost: n. The flowers in the centre afthiciently tall to be admired en. In fact, there the whole hat do not border this path getable garden, the rows are brussels than this, a row ould have een. These will row of radigh other vegetables gathered For the same reasoen, early
etween kohl-rabi and turn eas and radish border the natoes. This will illustrate ropping is illustrated where eas follow lettuce, endive fol or, all mes follow radish, are planted together. This ore convenient the control eas will. Extra rows of demonstration in canning les. Moreover, some vegetroduced which are not in
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annual flowers would be tation should be exercised. $m$ suggests one not to



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[^1]:    > ,

[^2]:    Kiln-Dried Seed Corn

[^3]:    LARKIN FARMS

