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 Last year we gave a cash prize to the Toronto Fat Stock Show for the best celver rived on ort
Royal Purple Calf Meal. There were twenty-three entries. These two cuts show two of thent




price.
-
IMITED,


# The Farmer's Advocate and cersuere succere Home Magazine 

## EDITORIAL.

Remember that the earlier it can be found practable to atatch the chickens in the spring, the great re the chances of eggs from the pil.
It is stated by a prominent firm interested in farm willings that this kind of work on farms is five years betiind requirements. Certainly if one has to capita, conveniently-planned barns and building
tovard overcoming the shortage of labor
If the orchard has not been pruned this year, there is still time to go through and take out unnecessary limbs and cross branches. Remember that although it is unwise to make big cuts in most cases, where a big
limb should be removed, making two cuts of it will often limb should be removed, ma
save a big split in the bark.
-If one is not sure that the hens can get an abundance igreen feed during the summer of the kinds they like, t would be the part of wisdom to make small plantings of oats or other green feed near the poultry yard where tis easily available. One or two rows of sunfowers, also, will help to provide shade for the summer months.
Notwithstanding the cost of production, we believe that in view of world market conditions, milk producers should be satisfied with the settlement of the Toronto milk-price question. An extra for May, June July and August is as good as could reasonably be expected.

When glanting the farm garden see that a variety of vegetatles for the table is provided. No hungry manin can do ids best work if his only choice is between beans and beets. Try some asparagus, kohl-rabi, or swiss chard, along with liberal plantings of lettuce, radishes, exions, lima beans, and the other vegetables usually plasted.

A great many apple orchards this year are infested badly with oyster shell bark louse, due to the fact that the dormant spray was neglected pretty generally during the war years. Make every effort to apply it this year, because even in badly-infested
will take the bark from two to four years to become will take the bark
fully healthy again.

It seems evident that labor on the farms in Canada this year, especially in Eastern Canada, will be fully as scarce as for the last two or three years, if not more so, and this in spite of the fact, corroborated by the
Deputy. Minister of Labor for Ontario, that Ontario Deputy Minister of Labor for Ontario, that Ontario
farmers are paying as high a wage as is offered for any similar class of labor
In view of the labor scarcity and the avowed intention of'a great many farmers to do the best they can without worrying over the cheap and inefficient good policy to do as thoroughly as possible what little can be done on the farm. If each man who is on the land would make his work count to the best advantage, no complaft would be justifiable from any quarter.

Under the provisions of the new Milk and Cream Testing Act, which has now all but passed the Provincial Legislature, shippers of cream and milk sold degree of protection against low tests than they have hitherto enjoyed. It now remains for the milk producer to keep careful tab upon the percentage of fat that is allowed him. Most legislation can be made effective if the people will take advantage of it.

## The Farmer's Advocate

 AND HOME MAGAZINEthe leading agricultural journal in the
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JOHN WELD, Manager Agents for "The Farmer's Advocate and Home Journa
Winnipeg, Man.

THE FARMER'S ADVOCATE AND HOME MAGAZINE is pubished every Thurscay.
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farmers, dairymen, gardeners, stockmen and home-makers of anyersblicartion in Canadaers, stockmen and home-makers of
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garden, but, in our rush to accomplish what we consider to be the bigger things, are we not losing a good
deal by neglecting those things which help to make home deal by neglecting those things which help to make home buildings, broken fences, and rubbish instead of flowers at the doorstep, tends to repulse rather than attract every farm will help to make rural Ontario a more attractive place in which to live, and after all a pleasant
attractive home is more to be sought after than riches.

## Nature's Diary

## Aeauty. very The thinty litem, which spring blospom is the Springs from a rounded bull)

 is from six to eight inches in heieght, and bears numerous.sonewhat bell-shaped, fowers, The five petals
 The stamens of this species mature first, and at the time
they are shedding their pollen the pistii has the lobes of the stigma on which he polten grains muss toige to

 Tertilization is hrough about. These two stagres. in
the condition of the foral oryans arc shown The inserts which visit the fowers of the spuring



Camberwell Beauty bordered with yellow.
The White-throated Sparrow ts now pasing through the more southrow sparrow is now passing through grounds, and its beautiful song is to be heard in many a piece of damp woodland and alder thicket, and even in many of the city parks. Whenever we hear the song of the White-throat it calls up visions of camps in the forests, of the rush of the rapid rivers of the north, of


Fig. 1. Broad Leaved Spring Beauty
alder-fringed streams where the beavers build their houses and dams, for the voice of this bird is one of the song is a high clear whistle, consisting of two notes followed by three sets of triplets, and in spite of its extremely high pitch, for the upper notes reach the
highest B on the piano of which instrument C is the highest B on the piano of which instrument C is the
last note, it is entirely free from any trace of shrillness. When we try to whistle it we appreciate how very high he pitch really is, and we are more likely to whistle
it an octave too low, unless we happen to be remarkably expert sittleurs. While the song of the White-throat
is always characteristic of the species, and easily recogis always characteristic of the species, and easily recog-

## 

Fig. 2. Stamens and Pistil of Spring Beauty
$\qquad$ songs of different individuals. They sing, for one thing,
in severat different keys. In some songs the two firet notes are in an ascending scale and the triplets the highest of a tone, or a half-tone, to the triplets, while in sume note of the triplets is a half-tone the samer and each tions, and in addition to these there are some variasongs which are even more markedly modified.
While the White-throat is typically a bird of the
by one o these chaps they call philosophers, If tel the things he-said an' had printed. "The sone $0^{\circ}$ the things he said an' had printed. "The greatest
successes have been for those who have accepted the successes have heaviest risks."
Noo, what I said to mysel' at the time I read it, what I' sayin' yet, is, is that statement true, or is it a

The best place to look for proof
in the life-history o', some man that we lhae been pret is weel acquainted wi'. If he was a great hand at talting heavy risks all we have to dae is to read ahead to the
last chapter and see how the story ends. in mind, right noo

how many, a cousin o' mine, (he claimed to bet tell ro in on his father's farm with the idea o' makin' a livin' for himsel' and, if possible, for his wife ant fainily There was no thought o' makin' money in those day again, but saw juist aboot as aften as we soot, noo an $\sigma^{\prime}$ the moon. What butter we made, or what ectipse raised on the farm we traded off at the store for cold sh an' black-strap an what ither dry-goods an' so on
Noo lhi
Noo, this state o' affairs might have suited miy ent, but it didn't suit his wife. Naething gidfer her but that they must quit the farm an' try somethin' that had a better lookin' future ahead o' it. She thought he lumbering business might be a way to get tae the top o' the ladder, but the first thing to do was to get of the auld fari
And off they got, sold oot everything an' took the trail for the West. And frae that time the ex-farmer
never needed ony mair coakin' alang by his wife. Onee he got west o' Lake Superior the air seemed to affect his blood, some way, and naething in the way $0^{\prime}$ a risky
undertaking had ony terrors for him. If he had qead undertaking had ony terrors for him. If he had read
that "the greatest success have been for those who have accepted the heaviest risks" he couldn't have gone into
the buying o' lumber limits an' the buildin' $0^{\prime}$. 5 年 me buying o' lumber limits an ${ }^{\prime}$, mair spirit an' enthusiasm.
Things began to come his way pretty near frae the tart. If lumber was cheap in those days it didn' ost much to get it oot. Men would wark alt winter an' bread, and it wasna lang till stories began to pork back East tae the effect that oor lumberman was in the way o becoming a millionaire, or somethin' juist aboot as bad. And later on we saw in the papers where they'd made a Lieutenant-Governor oot o' him and it began to look as though there was a guid deal to be said for the

$$
\begin{aligned}
& \text { doctrine o' accept ing the "heavy risk." } \\
& \text { But he wasn't going to get off sae }
\end{aligned}
$$

time fire got intae some o' the best o' his timber-limit an' by the time it was through wi' him he was juist aboot back where he was when he left the farm, thirty years before
It wouldn't hae been much consolation to him,
at this time, for somebody to hae told him that 1 the greatest successes have been for those who have accepted the heaviest risks." more that will have to said, though There's a word more that will have to said, though
He's starting in agin taking risks and maybe we had He's starting in agin taking risks and maybe we dae
too much revising on the proverb. same make as my cousin, that I hae been talkin' aboot He started in business as an agent for corn-shellers an and fifty thousand dollars. To mak' a short story $0^{\prime}$ it he hit the mark he was aiming at, but by that time naething short o' a million wad satisfy him. He bought real estate and started building young sky-scrapers in the toon he lived in and I dinna ken whatna else he didna get mixed up in. And everything was lovely until
the war came. Ye can imagine the rest. The last I the war came. Ye can imagine the rest. The last
heard $\mathrm{o}^{\prime}$ the chap he was working in a munition factory. 1 dinna ken what "risk"" he's taking juist at present. Maybe he's gone back to the agency business. It's
risky enough a'richt. But what ang a'richt.
But what
But what I'm trxin' to come at is this. There's anither sense in which we can tak' oor proverb, in which
it's true enough. What we want to get is the right idea $o^{\prime}$ ' success; As the warld grows older an' wiser it will quit callin' the man who has made the most money the greatest success. As a matter o' fact, there are aboot
five thousand things o' mair importance than dollars an' cents. I would say that the person who has accumulated the largest amount o' wisdom an' experience is the one
who has achieved the "greatest success" of life. Let is look at it in that way an' read the proverb again "The greatest successes have been for those who have The heavier risks The heavier risks we take the more experience we are
bound to get and the more we !earn o' the lessons that

We hear the ter just the right man just die think that w people of the health mean the animal's form bodily or mus horse being "soft" conditition," we mea the uspal amount of a horse being pink of condition In the draant or tha same meange, as t
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How

## Conditioning

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the farm horse the soil for the usually several
must be perforn fences, hauling those conditions
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If the farmer ha to do, and does $n$ it would be ad town. This
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work that the only comes fr lard for the an
loses his sleek,
loses his "bloo

Thirst and

## THE HORSE.

Frercise and Condition of the Work Horse.
BY DR. G. H. CONN. We hear the term condition the term condition many just the right manner. By the we are always refring to the present people think that state of the health, but insical fitness to thoroughly permean the animal's physical fork. So when we speak of a form bodily "r "out" "out condition" or "lacking in horse being "soft" or "out of is incapable of performing condition," we mean thauscular work. When we speak the ussal amount of muscular work. When we speak the ussar a being "hard," "in fine condition" or "in the pink of condition" we are referring the does not have the In the draft or work it does for the race horse or the same merting horse, as they are called upon to per form to the sporiag their endurance for a short space of tiberate.
limit of
the work of the draft horse is slow and deliberate.
With farm horses it is possible in the spring season to take sufficient time during the first work of the spring to bring about a gradual conditioning. With spring
some classes of work this is not possible, as its mand
too much haste, so such animals must be condioned too much haste, so such animals must te such work.
by methodical exercising before being put to sure by methodical exercising before being put
Fire department horses and army artillery horses are viry good examples of these.
very good examples has spent the winter in idleness and the fat, sleek horse that comes from the dealers are fat, soft and fabby and are easily fatigued and exhausted. Every organ and structure in the was necessary to digest just the amoury the animal from place to place as oc casion demanded, and to maintain the other bodily casion
functions; when it is suddenly called upon to do more
than this it becomes rapidly fatigued and exhausted. than this it becomes rapidly fatigued and exhausted
The lungs must become accustomed to breathing more The lungs must become accustomed to breat, the joints air, the enearting of a greater number of movements to the performing ofert more force and more movements. How to Obtain Condition.
Conditioning can only be accomplished by a judicious combination of good, wholesome leed ane little length of time. The exercise should not be forced, and it should be graduated. The work should not be severe nor over such a length of time as to fatigue the animal. practiced with most men in beginning their farm work in the spring of the year. They work their horses too being worked when he is too tired to perform labor with safety; it is a frequent cause of accidents and injuries
and is to be condemned under all conditions. The and is to be condemned under all conditions. The
ability to distinguish the fact that the muscular development is becoming more pronounced, and of keeping the
me amount of work within the limits of the ability of the
animal is the proof of good horsemanship. As soon as animal is the proof of good horsemanship. As soon as a horse is in good condition or is seasoned a aill amount
of work will do him no injury at all, but will gradually add to the condition. Horses that are conditioned properly do not lose great amounts of flesh during the early working season.
Amount and Kind of Work.

In the work horse the kind of work will vary; with the farm horse it usually consists in the preparing of
the soil for the spring crops. With most farmers there is the soil for the spring crops. With most farmers there is usually several days' work early in the spring that
must be performed before the heavier work begins; must be performed before the heavier work begins;
such as breaking corn stalks, hauling manure, repairing fences, hauling of various kinds and the like. Under those, conditions the farm horse usually has quite a
little light work before the heavy work begins. But little light work before the heavy work begins. But
regardless of the work, the horse should not be worked regardiless of the work, the horse should not be worked
until it is greatly fatigued and should be rested often. If the farmer has nothing of a light nature for the team to do, and does not live too far from his marketing centre,
it would be advisable to use the team, hitched to the it would be advisable to use the team, hitched to the
wagon, for the frequent trips that he usually makes to wagon, for the frequent trips that he usually makes to
town. This will be very good exercise and will help condition the animals and rooughen the shoulders. The exercise or work should always be at the walk and, if
the animals have been idle for any length of time, this will require some little patience upon the part of the driver. The amount of work or exereise and the length fairly brisk walking exercise may be sufficient; this can be increased slightly each day and the animal gradually put to light work, such as hauling light loads in the
wagon etc As effect of Feeding. As the exercise or work increases the feed must be increased also. It is impossible to efficiently condition a horse on a light diet. It requires no little amount of
judgment to properly ration the feed to the amount of
work that the worl that the animal is doing, and the ability to do so
only con only comes from actual experience. If the work is too
hard for the amount of feed the animal is receiving he hard for the amount of feed the animal is receiving he
loses his sleek, glossy appearance; as we often say, he
loses his "bloom" or fresh appearance.
Featurfs of Early Training.
Thirst and sweating of earlv training animals are
very important features, and really are closely associated

The sweating of young horses is very noticeable, and is
many times due to nervousness; for this reason it is many times due to nervousness; for this reason it is
always best when working the young or highly nervous animal to treat them as quietly as possible. An experienced horseman does not tire the young horse with long, monotonous lessons, but proceeds with orderliness
and concludes the lesson as soon as possible. When animals are sweating freely they become quite thirsty. Thirsty horses may be allowed to drink as much as they want if they are moved about until they are cooled, to
prevent their becoming chilled. This thirstiness will diminish as their condition improves.
The quantity and the quality of the sweat is usually taken as an indication of condition; the horse that is green or soft will produce great quantities of a soapy,
lathery sweat and will not dry very fast. As condition improves, the animal dries faster, the sweat becomes more watery and it requires more work to produce the sweating. Some animals sweat very easily even when in good condition, and others due to their nervous
disposition, so these two latter factors are not to be disposition, so these two latter factors are not to be
over-looked. The weather conditions have much to do with the cause of sweating; it requires much work on a clean, dry, cold day, while horses sweat very easily on a damp, muggy, stuffy day.


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Raise more and better cattle, sheep and hogs.
There is nothing gained by turning the stock on grass too early.
"The eye of the master fattens his cattle." How true the saying.

Use the knife on those pure-bred calves that are not up to standard
The first twelve months of a call's life usually determines whether it will amount to anything or not.
The poorest farm can be greatly improved by frequent application of farm yard manure. More stock me
more manure to aid the production of bigger crops.

## Live-stock Notes.

Upon inquiry of the steamship companies, it has been learned that importers are likely to experience considerable difficulty in securing transportation for stock from the United Kingdom to Canada during the coming summer. This is due to the heavy passenger and freight movement, space for which has been booked well in advance, and to the fact that few ships are available for the carriage of live stock, and many of these can only be equipped at considerable expense. Small shippers are likely to suffer most, in view of the fact that accommodation will probably be resed at all unless a minimum of business is offered.

The steamship companies indicated their desire and intention to meet the situation in the most practical way possible, and the suggestion was made that, so far as possible, shippers should co-operate in making application for space by planning to assemble their purchases for shipment on a particular boat at a given date. Such an arrangement, it was intimated, would greatly facilitate business and justify the steamship companies in meeting the needs of the shippers. The
Live-Stock Branch will endeavor to facilitate any arrangement of this kind, and will be glad to receive letters from importers advising of their requirements. It is suggested, however, apart altogether from any assistance the Government may provide that importers will do well to arrange for their own shipment, in so far
as possible, in accordance with the plan as above outas possib
lined.

The Handling of Hides.
One of the chief factors in determining the value of hides is the quality of the take-off. In the trade the removal of hides is the work of specialists, while in the country, skinning is only an incident in the general
work of the farmer, or local butcher. For these reasons work hide removed by the trade is generally superior to the hide removed by the trade the country hide, not only in the takef but as well in the salting and packing. The difference in quality is indicated by the classification of hides as "Packers" and
An outline of the essentials to the marketing of good quality hides may be of some interest. The loss in hide values through branding is very
The great, and it has been suggested that the animal be
branded in the neck or shoulder, areas of the hide less branded in the neck or shoulder, areas of than the flank. Often the brand is so deeply valuable than the flank. Often the brand the hide. If burned as to show on marking other than branding could be made practicable, it would result in a very marked appreciation in the value of a hides. In bleeding, it is better to cut in a direct line with
the centre of the lower lip and the point of the brisket the centre than across the throat, as the latter method renders the hide above the shoulders practically useless. The tail-bone, horns and the top of the skull, which are often left on the hide, shid flat, salted, and After removal, the hide shourd again salted before rolling. Where hides are rolled immediately after salting, heating occurs, and this causes the hair to decay, resulting Deacons, or hides from immature calves which are Deacons, or sudes subjected it would be profitable to treat these in the same way as the larger hides, special attention being paid to the removal of all meat,
as well as possible.
H. S. Arkrll,
Live-Stock Commissione

Where clover hay is not available for cattle and timothy is fed, a little oilcake added to the ration helps to feed this concentrate.


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## Causes of Sterility in Breeding Cattle.

One of the most annooing problems in live-stock breeding to-day, particularly in pure-bred herds, is
sterility, or more broadly speaking the failure of the sterility, or more broadly speaking the failure of the
cow herd to breed regularly and produce a normal cow of calves. Sterility, of course, means the inability of the animal to reproduce at all, and this trouble frequently manifests itself, but accompanying it are numerous other less serious disturbances of the re2 great deal of annoyance and sometimes keep his receipts below the line where expenses end and profits begin. These problems are unquestionably for veterinary science to solve and to this work our leading
veterinarians should devote themselves with increased veterinarians should devote themselves with increased
interest and vigor: but the layman; the breeder of live stock himself, is the nurse, so to speak, and must become acquainted with the fundamentals of bovine sexual hygiene, and know how to observe the simple
rules of sanitation if he hopes to make a success of breed. rules of sanitation if he hopes to make a succe
ing live stock under present day conditions.
ing live stock under present day conditions, genital diseases in cattle "The Farmer's Adovcate"
asked W. W. Williams, D. V. M., of Utica, N. Y., to spend a day at Weldwood Farm and there hold a clinic, ully stock breeding. There with the stable as a laboratory, and with a herd of over 50 cattle of all ages a very profitable and interesting day was spent in consulation.
Dr. Williams confines his practice to diseases of breeding Dr. Williams confines his practice to tiseases of breed the leading authorities, and has under his professional supervision about 30 of the leading pure-bred herds in the Eastern States. The discussion with Dr. Williams was, in parts, rather technical, but we shall endeavor
for the benefit of readers, to transcribe the matter in language intelligible to all.

The female Organs of Reproduction. In order that the text of this article may be followed with the minimum of hardship and the maximum of the reproductive mechanism of the cow and locate the organs most frequently involved in common genita diseases. The vulva is the outmost organ and leading The The utermative months of its life prior to birth and during the gestation period the foetus is wrapped in an en velope known as the placenta and commonly spoken
of at time of parturition as the "after-birth" because it is expelled after the birth of the young. This sac may be reproductive arguct peculiar to pregnancy rather ting the vagina and uterus, the cervical canal being the opening or entrance to the uterus or foetal chamber Leading upward from the uterus to the ovaries are the
fallopian tubes through the passages in which (the oviducts) the eggs or ova (products of the ovaries journey downward to the uterus. The female sexual product is elaborated in the ovaries just as the spermat-
azoa or sperm is elaborated in the testicles of the male.
Closing of the Ceridx.
One of the first points to come up for discussio was that of "opening", cows or heifers prior to breeding This consists in dilating or enlarging the cervical canal,
or entrance to the uterus. Several cows in the Weldwod herd have been operated upon by veterinarian-
but the results have never been sufficiently conclusive but the results have never been sufficiently conclusive
to either commend or condemn the practice. Oin examination Dr. Williams found the cervix of some cows previously operated on to correct a supposed colosure,
indurated or hardened and inflamed. This condition of the cervix, he intimated, was due to unskilful treatment
nod very likely to militate against future conceptions and very likely to militate against future conceptions.
Nevertheless, the cervix may be diseased, as in cases of cervicitis, but in such instances treatment rather than dilating or opening is advised.
The whole reproductive
subject to many ills and each organ has its own peculiar enemies to combat. Sometimes more than one organ may be infected and only by a thorough acquaintance dition is the veterinarian able to diagnose and treat The time should be drawing to an end when live-stock breeders are obliged to resort to all kinds of quack
methods and subject their valuable animals to unskilful methods and subjectilier has classified his examinations
treatment. Dr. Williams of the genital organs of 2,500 cows and tabulated the results. His statement, while somewhat technical, will give stockmen a good idea of where the various diseases
locate themselves, and let some light in on this problem locate then
of sterility.

Examinations of 2,500 Cows Classified.
The principal causes of sterility are included in the following groups. As many of the animals examined, presented disease in more than one part of the genita the groups respectively. Of the 2,500 cows examined, from which this suce of disease of the genital organs The following percentages are therefore based on the total number of cows found diseased, namelv, 1,221 . Cervicitis.-This trouble includes various disease conditions of the neck of the uterus and in this group
there were 388 cows or 31.75 per cent. Of these there there were 388 cows or 31.75 per cent. Of these there were associated with disease of the placenta (including
abortions) 106 , or 36.6 per cent. and with disease of
the oviducts, 43 or 10.3 per cent.
EnDometrirts AND Pyrometrits.-This is principically a superficial inflammation of the endometrium 354 cows or 29 per cent. Of these there were associated with retained placenta, abortion and premature birth, 61 or 33.7 per cent. Uterine Tumors, Metritis and Parametritis.These include conditions of various natures causing, principally, severe changes in the uterine walls. In this the foregoing diseases were: (a) Retained placentas abortions, etc.,-21 or 31.9 per cent; (b) Endometritis and Pyrometritis, -14 or 21.2 per cent.
Disease of Oviducts--In this group showing disease of the oviducts were 187 cows or 15.46 per cent. and
associated with this were: (a) Retained placenta abortion, etc.,- -48 or 25.7 per cent.; (b) Cervicitis,, 42 or 23.5 percent. Ovarian DISEASE.- This abnormal condition of the
ovaries may be divided into two general groups. Where ovaries may be divided into two general groups. Where
the ovarian tissue proper was affected there were 249 cows or 20.2 per cent., and where the corpus luteum per cent. With andected there were 198 cows or 16.23 affected there was associated cystic deveneration of the ovaries in 189 cows or 76 per cent., and this constitutes 15.48 per cent. of the 1,221 diseased cows. or yellow body was affected there was associated:
(a) Retained placenta, abortions, 52 or 26.3 per cent: (a) Retained placenta, abortions, 52 or 26.3 per cent;
(b) Cervicitis, 44 or 21.1 per cent. (Twenty-five per cent. of group 1 is included in group 2.)
abortions, and retained placenta or afterbirth ; in births 454 cows or 37.2 per cent. This group does not constitute an immediate cause of sterility, but there is a
very close relation between this group and the listed previously which affect seriously the fertility of given physical evidence of disease of the cergan have from this group are derived a large percentage of the
more badly diseased animals Dr. Williams' Comment on the Various Groups. I consider sterility due to cervicitis as the more
common form and a slight inflammation in this repion (the neck of the uterus, commonly prevents conception Contrary to a popular belief among phe the laity that thuch.
of the sterility is due to a closure of the cervical conal
and that it must be opened, I have found only-one
case of complete closure and this animal was bom A considerable number of animals were almost closed but this was due to-an inflammation of the partand cospon this condition the opening process has little benefician
value. Indeed, it has been found that work done by unskilled methods, causes most of such to the animal by reason of injuring and further incranm the inflammation of the parts. Treatment of disang of the cervix as of other delicate organs, should be done only by those thoroughly equipped by their education The actual
The actual sterility resulting from endometritis and pyrometritis is quite small, considering the large number
of cases in which they occur. Most of these cases recoura and in those cases in which conception does not agein occur, the actual reason for the sterility is likety to lip Therve, oviducts or ovaries.
The next group containing uterine tumors and deeper a class of animals in which the changes artituted by and the loss is practically 10 per cent., in fact, this sioup contains a large part of the incurable uterine conditions. is probe more permanent sterility, disease of the oviduct is probably the most important cause. I would estimate that incurable sterility in this group reaches a mark of 45 to 60 per cent. and in many herds the actual loss is
75 to 100 per cent. of the diseased animals, or even about that percentage of the total herd. With this condition present it is always inadvisable to resort to uterine douches and ovarian manipulations, as any infam.
mation of the oviducts is thereby accelerated and mation of the oviducts is thereby accelerated and Ovarian disease is divided into two about equal groups as regards their importance. You will note in the tabulations that cystic degeneration of the
ovaries was present in about 15 per cent. of the total ovaries was present in about 15 per cent. of the total cases of sterility. Out of this group of 189 cases, it has not been possible to determine the actual number of
recoveries but I would estimate this as being at least 80 per cent. It is the cause, I would estimate of 12 to 15 per cent. of the total absolute sterility.
Of the disease affecting the corpu
Of the disease affecting the corpus luteum or yelloir
body (the corpus luteum should be formed periodically body (the corpus luteum should be formed periodically
in the ovary) there occurs a certain percentage in con. junction with an infection of the oviduct and this runs at about 70 per cent. of the total corpus luteum disease. This group handled with care gives a large percentage of recovery, but otherwise under unskilled treatment and

In relation to the effect that abortion and retained afterbirth have upon the breeding capacity of the animals conerned, I believe that this is indicated strongly in the accompanying tabulation. Proper care of theserg I increases very materiene that much benefit would be derived if breeders generally would require more and more efficient control of the inflammations following parturition. It has been my experience that a large percentage of the losses have been due to neglect have been which have been put under careful supervision, the
losses materially decrease. Sexual Hygiene
Dr. Williams stresses sexual hygiene and says if
reasonable precautions are diseased animals when evidences of infection are first given the stubborn cases of sterility would be greatly lessened in number. Considerable emphasis is placed on the rearing of calves and an effort should be made to raise animals with strong constitutional vigor. "The
calf's health during the first few months," said Dr. Williams, "is a very strong factor governing its future breeding, efficiency." Sexual hygiene and rearingthecalves properly are two phases of live-stock husbandry which breeders should stress more than they do. In con nection with the former, a sharp watch should be kept
for unnatural discharges and where such occur the


Evenest of Bleaton.

largest farms, averaging 366 acres in size, had only 29
per cent. of their capital used in this manner. The perger farms have a smaller cost of operation in proportion to the business done, and in addition can use both man and horse labor with greater efficiency than can
the smaller farms Because of larger fields or larger the smaller farms. Because of larger fields or larger
implements that were used on the large farms, the implement of the were used on the large farms, he
operators of these farms averaged 57 acres of crop per man, as compared with only 39 acres of crop per man
on the small farms. Similarly, where one horse did the on the small farms. Similarly, where one horse did the
necessary work on 18 acres of crops on the small farms, necessary work on 18 acres of crops on the small farms,
the work on 22 acres of crops was done by one horse he work on 22 acres of crops was done by one horse
on the larger farms. Not only was this the case, but this extra work per man and per horse was done without sacrifcing crop yields, and the colum headed
crop index in Table 1 shows that there was no steady crop index, in Table 1 , shows that there was no steady
increase or decrease of crop yield as the size of farm increase or decrease of crop yield as the size of farm
became larger. points out very clearly that there are farmers on all sizes of farms who are successful because of the methods
used in their farming operations, sometimes in spite of used in their farming operations, sometimes in spite of
handicaps due to the small farm. Thus, in group 3 , where the six best of the 46 farms averaging 110 acres in size made labor incomes averagise the amor income of the 10 largest farms, averaging 366 acres, by nearly
$\$ 100$, although the three best farms amont these large ones averaged $\$ 2,670$. Thus it becomes clearly evident that a man may have a large farm but conduct his
business so poorly and use such inefficient methods that business so poorly and use such inemifient methe matter
with the number of pure-bred bulls seems to indicate solution of better ret use of good bulls offers the soundest is shown by a comparison of the farms using grade bulls with the farms using pure-bred bulls for more than ten per cent. of the grade bulls were used, live stock on of per cent. of the farms did not return market price for
their feed, while the live stock returned more than $\$ 10$ profit per animal over the cost of feed on only 24 per
cent. of these farms. Where pure-bred bulls had been used for more than ten years more than twice as many farms returned over $\$ 10$ profit per animal above the cost of feed, as in the case of farms using grade bulls, while only half as many farms possessed live stock that did not pay market price for feed. 0 ut of 223 farms used in this calcuation there weres 138 using pure-
bred bulls and only 85 still using grades, indicating that the majority of farmers realized from long experience what actual figures show clearly.
The comparative effect on labor income of good live stock and good yields is also shown. Forty-five farms having poor crops and poor the stocr
averaging $\$ 393$. On 13 other farms whe only difference was the combination of good crops and poor live stock, the labor income was $\$ 843$. On 35 farrms where the crops were only average, but where the live stock instead of being poor was average also, the tiver
income was $\$ 938$, while a combination of good live stock in addition to the good crops showed an average labor income on 29 farms of $\$ 1,733$. In other words, from a labor income of $\$ 393$ where both crops and live stock were poor, an increase in the qaulity of the crops means
able II.

| $\underset{\substack{\text { Receipts Per } \\ \text { Animal } \\ \text { Unit }}}{\substack{\text { Un }}}$ | $\begin{aligned} & \text { Per Cent. } \\ & \text { of Farms Using } \\ & \text { Pure-bred Bulls } \end{aligned}$ | Labor Income |
| :---: | :---: | :---: |
| $\begin{array}{r} \$ 59 \\ 66 \\ 74 \\ 84 \\ 84 \\ 90 \\ 101 \end{array}$ | $\begin{aligned} & 31 \% \\ & 46 \% \\ & 55 \% \\ & 60 \% \\ & 58 \% \\ & 65 \% \\ & \hline \end{aligned}$ | $\begin{array}{r} \$ 422 \\ 750 \\ 862 \\ 974 \\ 1181 \\ 1658 \\ \hline \end{array}$ |

an adition of $\mathbf{\$ 4 5 0}$ to the labor income. Where live stock instead of crops was improved an addition o $\$ 731$ was secured, while $\$ 1,340$ additional was secured when both crops and live stock were improved. Commenting on this condition, the report says: We are safe in assuming, therefore, that as the the stock oo market for most of the farm crops, it is rather poids economy tho go mice received by marketing them through the live stock is low on account of unprofitable live stoc Improvement in crop yields and in live stock thus go hand in hand,
ment leading." In the district surveyed potatoes are a very imIn the district surveyed potas of about 100 acres in
portant crop, and all the farms porta, about 120 in number, were grouped according to the number of acres in potatoes, in order to study the effect of farm proits or growng grown the averas Where one acre of potatoes was siown while on 21 other farms where an average of six acres of potatoes was grown, the labor income was the acreage in potatoes decreases in labor income as the acreage in por potoes were
decreased. Where three acres or more of deown per farm, somewhat larger labor costs were grown per farm, somber of crop acres per man decreased somewhat, but, in the words or here clear profit net result wastes for each additional acre grown."
to the business

## THE FARMER'S ADVOCATE.

social evenings we have a full house, but on regula meeting nights very few turn out, and quite a few who
agree to take part on certain nights never show up
We hold not a bit too often. Being interested in young people movements, I have pushed as hard as I can, but, as said before, without success.
Now what I would like
those who have swould like is a little assistance from interested and together in a Young People's Association Our folk seem to be quite at home on a social evening, but on a regular night are shy and so backward that they Won't even come out. I have been trying to get every-
one to go together, but find it is hard to get games (outdoors) in which boys and girls will co-operate and play If someone can help the situation, or give us a hint on how to remedy matters, we will be more than pleased and will be doing what some of us think is "the

Thanking you for the valuable space which this
takes.
Middlesex Co
R.W.K.
suggest the o can help R. W. K. out? We would suggest that perhaps meetings once a week are too fre-
quent for the rest if not for R. W. K. Perhaps R. W. K. has been too willing to do ali the work and the others have been too willing to let him. How have
foll overcome this common difficulty? - Edit

## THE DAIRY.

## The Vitamines of Milk

The following paragraphs are from a bulletin on
the food value of milk, issued by the Connecticut Agrit cultural Experiment Station
Butter-fat is a constituent of milk which has a
unique value in the dietary. If a young rat is fed on unique value in the dietary. If a young rat is fed on a ration adequate in all respects except that the fat is Yurnished by lard, or vegetable ois sike olive oil, it will grow normally for a period of about 80 days, then
suddenty it declines in weight and soon dies. Such
dit
 cases develop large ulcers. on the eyeball. A small
amount of butter fat added to the diet causes an imamount of butter or adaded to the diet causes an im-
mediate recovery of heath, gain in weight and prompt restoration of the eyes to their normal condition. This marvellous effect is idue to the presence in the butter-
fat of something of, as yet, unknown nature, which for fat of something of, as yet, unknown nature, which for
the time being is called the fat-soluble vitamine. The presence or absence of this substance in any foodstuff
can be detected only by feeding young animals, Pecenty it ${ }^{2}$ ber Eureently it has ben reported from some parts of
 condition isevostriment of Ily ulcers on the eyebal. This on rations deficient in the butter-fat titamy rime, and is
 and cereals were pomptly cured by whole milk or cod
liver oil. It it is still unproven that this butter-fat vita mine is essential for adutto. WV have maintaine nature rats
diets contaning many months in good condition o
non and as yet they have shown no signs of malnutrition For the normal growth and development of the young towever, it it sabsolutely esential.
Just what these vitamines
Just what these vitamines are has not been dis-
overed yet, but at least three tvopes exist neel

 some of the antiscorbutic vitamine which provents
scurvy, though less than do some of the vegetable and Iruit juices, notably orange juice. This vitamiene is
sensitive to heat, hence children fed on sensitive to heat, hence children fed on pasteurized
or boiled milk are more susceptible to oinfantile scurvy than are those fed on unheated milk, unless the scurvy preventing vitamine is given them in some fruit of
vegetable suice in which it is abundant, as regards the reation othe fal-soluble vitamine to nutrition, it is
 melted butter-fat for two and one-hall
destrouyng its
hits pouthgut destroying its potency. The third type of vitamiene
known as the watersoluble vitamine, is also present in milk. Withouter-so andec vitamine, is also present in milk. Witheut an adequate supply of this food

 apidity Thesory is may be biven, it in theovers with surprising rapidity This may be given in the form of milk, ysaist
commercial wheat embryo, or any other natural lood Stuffis that the water-soluble vitamine is something apart
 is show wh the results of our experiments. For many
years we sued the product obtained by evaporainns
to dyens.




as a source of vitamine as is an equivalent quantity
of fresh, unheated mill. Even boiling for several hours
does not destioy this vitamine.

By what means this vitamine exerts its marvellously beneficial influence is still unknown. The rapid gains in weight following its. use are always accompanied by a very great increase in the amount of food eaten, sometimes even quardrupled when a small amount of vitamine-containing food is given to an animal declining maine may act simply water-soluble vitamine. The vitaand the better growth may be due solely to the increased food intake; or it may supply one or more essentia effect of adding the vitamine may be analogous to that obtained by adding a missing amino-acid, or a sufficien supply of some inorganic element which was presen When we know more about the chemical nature of th vitamines, we may be able to discover just what apart hey take in the processes of nutrition
ments in which he obtained very striking results by feeding, daily, small quantities of fresh milk to rat which were on a diet supposedty free from water-soluble vitamine. From his data the conclusion was drawn In some recent attempts to duplicate his results, we found it necessary to use much larger quantities of milk than he did in order to get comparable results. Un diluted milk contains all the vitamine necessary for the young animal, but in feeding babies it is the practice
to dilute cow's milk with water and to reinforce the mixture with milk sugar By this procedure the vita mine content of the original milk is so far reduced that the bottle-fed baby may get enough of this essential food factor only when it takes a liberal quantity of the consequently the vitamine intake ood intake and effect of this is to further reduce the appetite because the amount of food eaten depends on the vitaminc content of the diet. It is thus evident that under such circumstances the child goes from bad to worse and the In feeding young animals trouble is rely
when the food is right. On the other hand very sligh defects in the food lead to countless difficulties.


Jap's Mertha Lass.
to milking. The milkers also
become interested, and are
manner
8. Records train one's sense of observation. The man who studies his cows soon finds out that while produce more and his farm improve 9. Many men have been able through keening
records of their cows to double the average yield per 10. Keeping records confirms or dispels suspicions any cows that are failing to produce profits. It giv definite knowledge about every cow in the herd, and such knowledge pays
11. Herds exist where the profit from the best coll is equal to the profit from the combined effort of six poor cows. In such a case a man has all the labor
feeding, milking and caring for the six poor cows whe the one good cow is making the profit. Records thus assist in building up a highly profitable herd.
12. Every dairyman has observed that some cow in his herd are better producers than others, but it not probable that anyone who has not kept records
each cow realizes fu'ly the bearing that these differences have upon the profits returned from the herd 13. It is believed that the best methods of maintainweighing and testing the milk the real good cows weighing and testing the milk, the real good cows
Disciard those that after a fair trial prove to be surely unprofitable, and raise heifer calves from the very best of the profitable cows, particularly those of good constitution, using pure-bred sires strong in the blood of good producers. The importance of pure-bred sire having ancestry of good milking strain is sometime
overlooked, but results have shown that the sire is o overlooked, but results have shown that the sire
as much, if not of more importance than the dam.

## PRRIL 29,1920

The reoord of the yield of milk in its simplest 14. The record of to keep, and the small amount of fomm and trouble involved is (costing about $\$ 1.50$ ) to reuired is a spring baug. The milk of each cow can which a pail can be hung. Fhe the then be noted on a thu be easily weighed, for the purpose, and fastened up in some convenient position. The can be obtained (cost nouit 85 ) with dial on which the weight of the pail is abou
alowed for. The addition of thase weights at the end
gives the total milk. If the percentage of the month is also desired, then a small sample can be of butter from each milking and put in á composite sample iar, to which has been be tested at the end of the tafbet which sample can be tested at ore eutter-fat in
month when the average percentage of buth
multiplying te mititfor that perile wilk for the month by the average test for the same period show for that length of time butter fat produced by the cow for the cheese factories, Night's milk, which is to be sent of cooled to a temperature of 65 degrees as soon should be cooled to a temperaciure the cans in a tank of is drawn from Cream for creameries should be cooled
cold water. co a temperature of 55 degrees as soon as it comes rom Dhe separator, by' placing the cream cans in a tank of
the cold water and ine. Usply to the Dairy Branch, Ontario Departatensils, Aploly
mint of ofriculture, Toronto, for blank forms upon

## Parturient Paresis-Commonly

 Called "Milk FeverMilk fever is a disease peculiar to cows at or shortly Tollowing parturition. It has been a subject for study and in the very earliest works on veterinary science In acc, the disease. Notwithstanding these facts,
discuss the der
the cinsea and nature of the disease is not well under the causes and nature of the disease is not well hav soond discovered, the manner in which such treatment effects a cure cannot be satisfactorily explained. Every man who owns a cow, whether he he a dairyman,
farmer, or a man living in town, should have an intelligent idea of the conditions under which it occurs, the symptor. and treatment. Cows that are heavy mikers or in gross condition, or both, a are me with under nearly a conditions, except that there are no cases on record of the conderse following the birth of the first calf, and ver
disarly the second rarely the second.
Symptoms may be noticed shortly before, during, or shortly following parturition, usually from about
six to forty-eight hours after the birth of the calf, but in some cases not until several days. In fact, case that oresent the tyical symptoms of the disease, and
tield to the same treatment, are occasionally noticed in cows during any stage of the lactation period. These certainly are cases ars ecan cannot be called "Parturient," as they occur months after parturition.
These facts still futther tend to confuse matters as to the cause and nature of the disease. The first symptoms usually noticed ar: an uneasiness, stamping of the
feet, whisking the tail, a staggering gait, a dilation and feet, whisking the tail, a staggoring gait, a dilation and
glistening appearance of the pupils of the eyes, and an indifference to the calf and surrounding conditions. The pulse in the early stages is usually full and frequent, but soon becomes weaker though more frequent. The
temperature is below normal and continues so unless temperature is below normal and continues so unless
complications set in, hence "Milk fever" is a misnomer. but on account of its common use we may be justified
in using it. In the early stages of the disease the patient loses the power of swallowing, but no symptoms are
lite present to cause this condition to be suspected. The symptoms increase in severity, sometimes rapidly, in
other cases slowly. The coy other cases slowly. The cow loses control of her muscles
and lies or regain her feet, but if she should she will soon go down again. This may occur a few times, but she eventually
becomes unable to rise and partial or complete paralysis soon becomes evident. She will now assume one of two outstretched her ting lat on the bone) If paralysis be well advanced or complete, the neck will be turned backwards with the muzzle resting on
the flank. If the head and neck be straightened and then let go they will immediately return to their former positions. This tends to give the impression that there
is a contraction of the muscles of that side of the neck, but if the patient be turned to rest on the other
side the head will tale the sme relative position. In some cases there is well-marked delirium before coma becomes well marked. When coma is complete she is
devoid of sensation and practically also of motion devoid of sensation and practically also of motion.
$\operatorname{In}$ fact, she appears as dead, except that she breathes.
Reser Respiration is somet asmes normal, but usually more or
less nois en ere
Preventive Treatment. - After many years of careful
nvestigat
investigation, study and ineffective use of drugs of many
natures. it has been discovered that a ful! udder tends
to

Where nature is thllowed to to take its course, even with
cows that cases of the are in high condition and heavy milkers, are few. Hence it is well to allow
the the calf to nurse the dam for three or four days. and
not remove any milk in any other way in the meantime.
This leavesthe ull. fer practically full all the time, bu
sufficient is remove frequently to avoid udder troulle

## When, from any cause this cannot be done, the attendant should, as far as possible, stimulate nature by milking

 a lietle frequently. In the meantime the cow should be can be fed to produce large quantities of dialk and usedin the normal way. While this treatment is usuallv successful in preventing the disease, it occasionally
fails.

## Curative Treatment.-As stated, "in the very early stages the cow loses the power of swallowing;" hence

 no attempt must be made to give anything by the mouth -this is imperative - as some of it will almost certainly enter the larynx and pass down to the bronchial tubes usually ends fatally or mechanical bronchitis-which tends to prevent the disease" In like "a tended udder tends to cure. The best method of distension is by inflating with pure oxygen gas, or sterilizedair. The latter, being much less expensive, more easily air. The latter, being much less expensive, more easily
introduced, and giving practically as good results, is usually used. Cylinders containing compressed oxygen gas and apparatus for inflation can be purchased from wholesale druggists. Outfits for sterilizing and introducing it into the quarters can be purchased at little
cost from dealers in veterinary instruments. If the symptoms be noticed before the cow goes down, inflation is easier and the patient recovers without developing
paralysis. In all cases the udder should be well washed with an antiseptic, such as a five per cent. solution of one of the coal-tar antiseptics. If down, a rubber sheet or canvas should be placed under it to prevent
contact with litter, etc. All milk should be drawn, as its presence complicates inflation. The syphon of the its presence complicates inflation. The syphon of the It is well to inflate the under quarters first, as partial recovery is sometimes so rapid that the cow regains
sufficiently to sit up before inflation is completed. By sufficiently to sit up before inflation is completed.
working the rubber bulk or metal pump of the out the quarter is inflated by the introduction of all the tape tightly around the teat to prevent escape of air
The other quarters are treated the same. It is good
be used during the winter of 1920.21 for demonstration
purposes at the daisy convenions, for educational Work in the dairy schools, for conferences of graders
from the different provinces, etc. Full details regadding the contest may be secured from J. A. Ruddick, Dairy
and Cold Storage Conmissioner, Ottawa.

## Holsteins on Test

From March 1 teth to 3 3st, the official test reports of
 Pietie Inka Pontiac with 30.56 bibs. Dutter from 620 bes.
milk and 57.90 ibse butter in fourteen days. Pontiac Lady Waldorf follows a close second with 30.55 libs. from 602.9 libs. milk and 124.98 Ibs. butter in thirty days.
Iola Erancy Keves is third with 28.34 lbs. butter. The outstanding record of this report is that of Woodland Banostine Colantha, a senior four--year-old, with 35.01 lis. hutter from 709.1 tbs. mile.
Banoste lbs. butter from 55.52 libs. milk. Countess DeBoer 2nd is third with 25.29 lbs. butter. In the junior four-yearold class Elimerest Fairy Posch has 24.09 llos. butter
 is headed by Goldie Keyes Camille with 23.16 libs. ${ }^{\text {butter, followed by Princess Korndyke Fayne with }}$ Ibs. The innior dith De Kol of Elmcrest with 21.16 by Artis Melbe Findereene with 22.02 Ibs. butter from 5477.7 lb . milk, followed by Laningdale Alice Abenovitch with 20.73 lbs., and Teake Ormsby Korndyke third with Burr of Crystal Sprinenior two-year-01d class Bonnie 407.4 llss, milik, while De Kol Mercedes Queen is second with 16.13 libs, , and Alberta Brookbank Seepis third with Korndyke Deborer fom 349.5 Ibs. milk. Countess Korde 5 ve Debper in the junior two-year-old class mae 5.48 bs., butter from 32.99 libs. milk, followed by Ena De 27 her days and 28.27 lbs. in fourteen days.

March the semi-official rec-

ords of nineteen cows were
receeived and accopted. In he mature class Duchess of butter from $15,1841 \mathrm{lbs}$. milk and Mary Junior has 490 Ibs. butter from 12,090 lbs. in the four-year class of
which Nettie Tensen Hen gerveld is high with 627.50
lbs. butter from 15,882 lbs milk, followed by Thorndale Wayne B iryl with 603.75
lbs from 13,873 tbs. milk. In the three- year class Rose berta cow, is high with 887.50 1bs. butter from 17,387 ibs.
milk, and Pride Princess on Chesterville is second with 473.75 libs. from 11,829 lbs. milk. The high record o
this report is that of Colony Falorit McKinley, a two
year-old, who produced fo
 Pioneer Albino Mechthilde
When Its Apple Blossom Time in the Orchard. -
practice to then massage the udder well every hal in about an hour If she be not on her feet in at most four hours, repeat the inflation. The tapes should not be left on the teats longer than one hour. The cow should be fed lightly for three or urour days ate udder for ment. Nothing shoufder dren after which a little milk, enour hours prevent udder trouble, should be drawn frequently for the next twenty-four hours, after which she should be used as other milking cows. Infation of the udder by the use of an ordinary bicycle pup syphon is attached a little rubber results as either gas or stergives as good immeriate tesults an at of udder trouble
ilized air, but there is great danger of
Whip.

Dominion Educational Butter
scoring Contest
During 1919 an educational butter-scoring contest was conducted under the auspices of the Drarty and Agrieulture. This proved so successful that it has been Agrituture.
decided to continue the work during the coming season.
four creameries in each province send by express one
14.-1b. box of butter the 20th of each month from May
and placed in cold storage for rescoring by the samer judges at intervals throughout thill be determined in
contages of salt and moisture Centages of sat and the reports of the monthly scorings, rescorings and other tests will for the merkit price on receipt of the proper invoices,
and the express and storae charges are allo paid for
form
butter from $14,254 \mathrm{lbs}$. milk, and Pioneer Snowstorm Hartog third with 681.25 lbs . butter from $14,949 \mathrm{lb}$. Filk. In comparing the seco her strictly offial recor only a record for the year being $1,052.50 \mathrm{lbs}$. butter from 21,795 ibs. of milk, wille the strictly oniciair record was bein buter rom 2, , 1 bs. of the , the sighit ficial test started slightly sooner than did the official. in favor of semi-official loxngmperm should be a point in properly semiried out are nearly as accurate and less costly to the

## HORTICULTURE.

Onion Raising in Brief Form.
Ediror Thesful onion cultivation the ground should For successtul foll and again in the spring. The ground should be well manured after plowing in spring. The manure must be well rotted and the ground wel pulverized, and the rows should be sown from the fifteenth to the twentieth of April. When the onion reme they should be cutivaled about every secon day, and weeded once or twice a week.
Ashes or salt should be sprim kead on the ground to thould be worms from kingin. When onions are nearly full grown they should be rolled to prevent thick necks, and when large enough to harvest they should be pulled and laid in rows on the ground to dry. Whe The and laid in rows one the growisted at the neck. They
they should be topped and twiy
should be put in a shed and left until thoroughly cured

## before marketing. Leeds Co., Ont. Walter Manhard

## Dehydration Versus Canning.

 Editor "The Farmer's Advocate"I should like to discuss briefly the question of de hydration as presented in an article entitled "A Dry
Subject" by Allan McDiarmid, in your issue of April 8 ,
It see It seems to me that this article although deal ing with an important subject is somewhat misleading
and canning side by side and has endeced dehydration and canning side by side and has endeavored to show
that the former should be used and that the latter should be discarded. Although much is yet to be determined regarding these two methods of food preservation, there are certain points regarding them which seem to be
fairly clear. airly clear.
manufacturing cost, smaller tre andvantage of smaller hence a cheaper article of food.
(2) Canning has developed into a large industry principally because it has been the most successful
method of preserving the natural odors and favors of perishable fruits and vegetables
(3) Most fruits and vegetables are eaten principally to vary the diet and to please the appetite. Except in the case of potatoos, ripe beans and ripe peas, the question of food value, other than mineral matter, is
considered very little. Therefore any process which fails to preserve flittle. Therefore and color in the naturass condition, ails in its object.
In the writer's experience, having carried on several tests and having examined a number of samples from
leading concerns, dehydration has not yet produced foods with the full natural flavor and odor For For in stance, green beans which are prized for their delicious avor when dehydrated were tasteless. The manufacturers really admitted this when they advocated cooking these beans with bacon. To do that is to miss bulk and not for their flavor. beans are eaten for their The writer of "A Dry Subject" has referred to de-
hydrated tomatoes and green peas. If he can produce samples of these articles for me which will have 25 per or beans will have, I shandl be greatly interested as I or
have failed to find dehydrated articles reaching even that standard,
In conclusi
In conclusion, I wish to say that in discussing de
hydration the proper attitude would seem hydration the proper attitude would seem to be that
dehydration occupies a different field from conning should really go hand in hand with canning. That is that while dehydration may be advisable in the case of certain coarser vegetables such as potatoes, carrots. leader for preserving the canning is really the undisputed leader for preserving the delicare flavors of fruits such
as strawberries, raspberries, peaches and pears, and green vegetables such as peas, beans and tomatoes.
Hort. Experiment Station
Hort. Experiment. Station. P. .E.C CuvVERHousF,
Vinland, Ont.
By-Products' Investigator

## POULTRY

## Getting Layers for Next Winter.

 Why should we produce winter layers? Becausethere is an increasing demand, not only at home but
abroad, for poultry and poilty here is an increasing demand, not only at home but
abroad, for putltry and opuitry products. What has
caused this great demand? There are several reasons whused this great demand? There are several reasons
which, when taken collectively are very onvincing
why such a shortage should exist in poultry and, of why such a shortage should exist in poultry and, of
Firesty, boultry products. because Canadians are eating more ergs
Cind every year. Second, becauso there is a greatere export
demand for Canadian eggs and poultry to meet the de-
mands in foreign auntries depleted of their laying stock during the war. Thirdly,
dep
because the high prices of feeds because the high prices of feeds and the comparatively
low prices of market poultryduring the third and fourth ears of the war, meant that a great many laying hens
were killed off. Fourthly, because not suffcient at tention had been given to the hatching of early chicks for
winter layers. Consequently, the poultrymen found their returns were not sufficient to meet thei- expenses, and the increase in poultry raising has been very slow to what it might have been, had there been sufficient
profits reil zed out of the poultry industry. While it is not intended to mislead anyone into the fact that big money can be made out of poultry and their
products with the prevailing high price of feeds, yet this can be said, that your returns may be increased very materially by producing winter layers. The following results, which were obtained on the Experimental Farm, Nappan, from five of the best winter layers,
also five of the lowest, from October 1st, 1919 to March also
31 st, 1920 , will bear, this out.
98.21. The total value of 413 eggs at a total cost of was $\$ 23.78$, leaving a profit of $\$ 15.57$. The five eaorest iaid a total of 34 eggs at a cost of $\$ 8.10$ with a total value of $\$ 1.99$, making a loss of $\$ 6.11$ for the six months.
Figuring on a basis of Figuring on a basis of 100 hens
have a profit of $\$ 312$ against a loss of $\$ 122$ from the latter. In computing the above, only the actual food consumed is taken into consideration-labor and interest on investment neglected. Now it can readily
be seen that the winter layer is by far the more prof be seen that the winter layer is by far the more profi
able hen to have more especially when the high cost of feed is taken into consideration
In order to produce profitable winter layers, we must select eggs for hatching from not only our most healthy and vigorous birds, but from our best laying strain, later than the last of April. When the chicks are hatche great care must be taken that the baby chicks do not get stunted, otherwise they will not be as good as later hatched birds at maturity. Keep brooders and brooder house clean, light and free from dampness and draught.
Give them plenty of wholsome chick foods such chick scratch grain, baby chick grit, oyster shelt, char coal and sprouted grains. Keep an even temperature at all times during the early stages, for that is the most critical time in the development of the winter layer Do not overcrowd your house Feed the summer growing feeds, such as grain mixture of 200 lbs. cracked corn, 200 wheat, 100 of oats, together with a dry mash mixture of 100 lbs . bran, 100 corn meal, 100 crushed
oats, 100 shorts and 20 lbs , of beef scrans keening oats, 100 shorts and 20 lbs , of beef scraps, keeping at
the same time plenty of grit, oyster shell and charcoal where they can have access to it
pullets Jurig September, select your most promising quarters in the flock and get them into the ir winter their new surrourdings. For may become accustomed to pens should be light, free from draught or dampness and
have plenty of fresh hair A god grain mixture is 200 lbs. corn, 200 wheat, 100 oats, and 100 of barley and dry mash, 2001 lbs. screenings, 100 bran, 100 shorts, 100 cornmeal and 20 of beef scraps. Hens
should always have plenty of grit, oyster shell and should always have plenty of grit, oyster shell and
charcoal before them and in this way you can easily double your poultry profits. - Experinent al Farms Note
by W. W. Baird, Superintendent, Experimental Farm, Nappan, i. . S.

During the twelve months ending February, Canada exported $\$ 507,091,471$ worth of goods to Great Britain and imported goods to the value of only $\$ 106,605,527$ Duri a favorable balance of trade of over $\$ 400,000,000$ toods valued at $\$ 649076$ ar3 nada imported dutiable $\$ 344,793,468$, or a total of $\$ 993,870,100$, duty amounting to $\$ 177,766,266$, or an average of 2 per cent. on dutiable and 17 per cent. on all gocis was ollected.


Founded 186

## THE APIARY.

## Methods for Hiving Swarms.

## Editor "the Farmer's Advocit

A large number of beekeepers believe that a natural comb or extracted honey than the production of either to swarm have been checked or balked. Sometime swarms that have been thwarted will begin to sulk and perhaps the great majority of heem eepers an advantage to use preventive measures well that the bees will cast their first swarms in spite of them there are those who hold that they can secure morem
honey by letting the bees satisfy their honey by letting the bees satisfy their natural desires
by swarming once-that is to say, the parent and the swarm together will produce more honey thy if they had been kept in one hive. While this is course, a debatable question, it is a matter that should receive careful consideration, for no one method or
set of cerpers and in a For
be assumed purpose of the present discussion, it it will
colonies advantage to manipulate the colonies so that they will cast a swarm, after which repressive measures will be applied on the parent colon
Some of the that the artificial plan of shaking is oswarm scheme find that the artificial plan of shaking is quite satisfactory,
while others believe it isffetter to let bees have thei own way, so far as the first swarm is concerned.

Hiving a Swarm With a Clified Quren Where the plan of forcing the swarm ahead of time
by brushing or shaking is not practiced, clipping has come to bealmost universal among comb-honeý producers for when the queen's wings are clipped, or they art prevented from leaving the hive by the use of alley
traps, or entrance-guards, a great amount of labor will It will be assumed that all queens in the apiary have the bees are nearly all out, the queen will be found ii all probability, hopping around in the grass near th entrance, vainly endeavoring to fly with the rest of
the bees. She should be cased, and the care sipped the bees. She should be caged, and the cage slipped
into a pocket or some cool place, temporarily. The super or supers in which the bees have already started work should be set on the ground near
the hive. The brood-chamber should now be remoed the hive. The brood-chamber should now be removed,
just as it is, to an entirely new location. In its place just as it is, to an entirely new location. In its plac or empty combs should be set and on top of this a queen. excluding honey-board. Some prefer having ooll starters of foundation. The supers, placed on the ground temporarily, are now put on the new hive con caged queen is laid in front of the entrance All this may be done when the bees are in the aif ant it will not be long befoee they discover that the queen is not with them, when they will return pell-mell they are well started going in, the queen may be released, when she will go with them.
on and completed with more vim and energy than before, because, as stated already, a new swarm worts with new energy. If only frames containing statters
have been given them, what honey does come in is have been given them, what honey does come in is
forced into the supers, for the bees have no other place forced into the supers, for the bees have no other place
to store it, at least until foundation below has been drawn out; but as soon as this takes place it is occupied Thme old hiveccontaining frames of brood and queen-
The then ellis now in another location may cast a second or thind swarm, but if queen-cells are cut out, even section
swarming may, to a very great extent, be checked This method of handling swarms where natural swarming is allowed, commends itself, especially to have
women folk, who are generally at home. All they have women folk, who are generally at home. All they have
to do is to hunt up the clipped queen, cage her, and then put an empty hive containing frames of foundation
in place of the old one. As it might not be practicable for the women to carry the old hive to another location, they can simply drag it over to one side, and change
the entrance so that it will face the rear. When the "man of the house" returns, he can lift the supers from the ol It stand on the the new one, then take the old brood
nest over to another location. This may be done any nest over to another location. fris mat old hive can
time within a tlay or, when preferrd the ole
be left alongside the new one, providing the entrance If two or more suarms come out at the same time.
anil one of them has a virgin queen, all the bees will and one of them has a virgin queen, atl the bees then,
be likely to unite with the one having the queen then
of fourse , this plan of hees retuming will come to naught. of course, this plan of bees retuming will come to naught
But in a well-regulated apiary of Italian bees there will

If you want a community hall and athletic grounds for your community, why not take advantage of
assistance offered by the Ontario Government. Grants are only made to municipalities, however, and local organizations, such as women's institutes or fatmer's
clubs should not proceed with their plans, expecting to clubs should not proceed with their plans, expecting
get Covernment assistance, until they have looked into
the Act and consulted the Ontario Department of

$\qquad$ hils disposed ow the Let many bills atirid stages and slect standing coa of the whole Hous
they have been dis ammittee. In time, athough Why tha cent of prent time, and pasesed. The
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## FARM BULLETIN.

 Find of Legislative Session Not Yet in Sight.The ession of the Ontario Legislature that con-
vened in Toronto on March 9 , and was expected to The session of on March 9 , and was expected to
vened in Toranto
promue sometwe betwen April 20 and May 1 , will propgut not end until May we waere taken up at the
probibll
nembered that several weeks whe remembered
fifsol of the sesion by the debate on the address.
 getting down to real work, btion, and several reform
 sumpht by the tabor group in the the actual number of
soconsiderable discussion, so that to oonsiderable discussione so than the work done by
bills disposed of is rather less tharrant bills
the Leprisilature would seem to warrant. There are stin the Lerisiane mill to be put through the second and
a a griat mase, and many others have yet to go before the
thirid stas select standing commint ees of through the committed
that such bills cannot be put that such bisk canno or iven the third readings before
of the whole House or of the whole been discussed by the proper select standing temien in addition, there is the Budyet debate,
wtidi is barely started and may occupy considerable which is barely started wnd seem no particular reason time, atthouid there Beside those factors there is the fact
why it should, why it should, of money has yet been voted up to the present time, and this we understave been tabled but not The supplementary estim "further suppleméntaries," to cover unpased. The "further supplementaries, 'October should
foresen expenditures unti) the 31 sto of be down in a few days, while the main estimates for the fisal year beginning November 1 , 1920, which are usually brought forward at the last of the session, and mill represent the iteas of the new Gevernmen, and vere pased. The Government seems to be bringing they are pased.
formard the most contentious measures now, so that onect these are disposed of, the remainder of the work be be done except for the voting of the money, should be
caried forward very rapidly. Even at the best, howcarried forward very rapidhy. Ever May
ever, Mas prorogation

- pric most contentious item discussed last week was the Mecreary resolution that the House request the Pederal Government to authorize a referendumo
the Canada Temperance Act, as regards the importation the Canada Temperance Act, as regarosince of Ontario.
of intoxiating liquors in the Province M. M. Macbride opened the debate, which was contined from the week previous. Mr. MacBride is a
well-known labor man, and though a good speaker and mell-kiown labor man, and though a good speaker and
Mayor of the City of Brantford, and professing to have Mayor ores on the tertperance question, he seemed to
stong ideas strong ideas on the ertiner making himself clear. He
lave some diffecty in
thought the Province coull clear private cellars of stocks thought the Province could clear private cellilars or thocks
of liquor, as well as they forced the hotel men to clean out their stocks. He further declared that the money the Ontario License Board was tainted money, and repersented a desious backward step. If we take the
sper pooft out of the business, importers will stop flooding
the Province with liquor, which should be sold for use the Province with liquor, which should be sold of Hear use
rather than for profit. The Provincial Board of Health rather than for profit. The Provincial Board of realed to
now has more drastic powers than would be required to meet the situation if the Province were to act within its own rights rather than try to take advantage of ederal
lamw. The 0 . T. A. is badly in need of amendments, sinee at present it is the most difficult of all acts to
enforce. The Legislature should exercise the courage of its convictions and remedy these faults. The speaker blieved to some extent in the rights of the minority,
and pointed out that at the last referendum there was a and pointed out that at the last referendum there was a
minorority of $1,700,000$ voters, who must be recognized to some extent. Too much, moral uplift is bound to
bring about a reaction, and fifty out of sixty-seven Massabout a reaction, and fifty out of sixy-selenen after being dry for many years. The referendum clause
in the Canada Temperance Act was the result of the fine o political hand of the Hon. Newton Wesley Rowell
whio topes to ride to power perance people. The Sandy and McCreary resolutions are a dooblebebrreled gun, and if passed will have the
bigest back-kick of any political pun every fired. Pigesest back-kick of any political gun every fired.
Poribition is certainly a plank in the U.F.O. plat-
form, and for this reason the Covernment should bring lom, and for this reason the Government should bring
in $a$ progressive Government temperance measure. They phogressive Government tomperance mo to the country with the referendum
and if they go are dum, should also face the people squarely with the issue. Conduding his rather amazing medley of ideas, the
speaker said he would support the Brackin amendment. The speech on the debate last week was made by exceptionally clever manner, refuted practically every
argument that argument that had been advenced by opposition to the
resolution. It has seened rather remarkable that temperance itself has not been so much under discussion
Whether prohibibi disecher probihibition is better than temperance is not
or wrent on extent, and whether either one is right
ofsed about the polititical traatment of the present situation
as it has deven
a the as it has develiped out of the referendum of October 20
19919, and in view of the character of the old Ontari Tempand in view of the character of the old Ontario
Iution, thee Act. In are aldition to the McCreary reso-
one of which wo ame amdments before the House, one of where are two amendments before the Heuse
Orbes which was preverted by the Conseratives and
bility for thy Governent should take full responsibility for any measurenternught forward. The other is a
socalled
and calls forkin ammerluent which is a Liberal one,
calls for proof that the Canada Temperance A
applies to the Province of Ontario before a referendum
is requested. So far as the Act being applicable to
Ontario is concerned the Attorey Ontario is concerned, the Attorney-General said that
in the opinion of the law officers of his own Department there was no doubt of its applicability. Letters
were quoted from Hon. Mr. Rowell, who fathered the were quoted from Hon. Mr. Rowell, who thered the
Bill it the Dominion House, stating that it was the
intention of the Government to make the Act applicable intention of the Government to make the Act applicable
to Ontario, and that the condition in Ontario whereby native wines are not under prohibition, was expressly clause in the Canada Temperance Act provides that a referendum may be taken in any province "where there
is in force a law prohibiting the sale of intoxicating liquors for beverage purposes," and it is contended Ontario, this clause does not apply. A telegram was read from the Minister of Justice, Ottawa, stating that in his opinion the Act did apply, and the Attorney-
General in supporting the resolution stated that he felt General in supporting the resolution stated that he felt
sure he was upon solid and safe ground in this matter. sure he was upon solid and safe ground in is concerned
So far as the Conservative amendment asking for the acceptance by the Government of full responsibility, Mr. Raney thought it was childish to say that one would not vote upon a private members
resolution, when he would have voted for it if brought resolution, when he would have voted for
down as a Government measure. Moreover, a resolution introduced by Sir James Whitney, in 1912, and othe statements by the ece that the Conservative Government had not considered the prohibition of the importation of liquor into the Province of Ontario for private use as popular in the jutisdiction. Mr. Raney is none too popular in the
House, and as a result was heckled considerably during the debate. Notwithstanding this he made as clever a speech as has been delivered this session. What the outcome of the debate will be no one can say wit
certainty, but it looks somewhat as though the McCreary certalintion would pass. If it does and the liquor in
resolution terests challenge the eegality on to them to prove the illegality and not up to the Government to re
 Mr. gradual lowering of taxation on improvements, and graduat lowering of taxation on land values only The Bill will provide that upon a petition of ten per cent. of the ratepayers the counci must sum the council
law to this effect and if carried by the people the must ratify it, The Bill provides that the change in must ratify it. The $\begin{aligned} & \text { taxation must be made gradually, and that no more }\end{aligned}$ than twenty-five per cent. of the taxes on improvements can be taken off in any one year. Another sion of the duced by the Premier pro James Bav, but it was made T. and N. . Ratway tovernment has no intention of extending this road at the present time, because of the condition of the money market. The Bill to lift the moratorium, as established by The Mortgagor s s ante Purchaser 's Reliee Act, was finally sent back to a select of the who committee for further discussion as to the
standing time when the moratorium should
thought that July, 1920 was too son at at any rate a bad time of year to call upon.
payniert
payments.
The Bill respecting veterinary practice was given
third reading on Friday, but not without a little flurry caused by a request from J. C. Brown, North flurry caused by the Bill be sent back to the committee of the whole House for further discussion. Mr a corresrequest was prompted by the lamentations serious injury pondence school in tid. In as much as it was the actions if the Act were passed. In ashols which the Bill was of such correspondence sshois whe change.
aimed to curb, it was passed without

The Trade in Small Bulk Seeds.
Editor "The Farmer's Adrocatisate enough to have The farmers who were it for seed are now congratulating themselves on their good fortune, while many of their neighe clover go for the same opportunity, but who pasture or perhapsit houlders when they inquire the now shrugeds. High-priced clover seed was predicted price of seds.
last summer early in the season, and warnings were
lat given by closer a short crop of red clover as there was a scarcity throughout the world, and that over advances. would be high in sympathy with reft of new growers This warning was taken they have profited by in Eastern Ontario and they siderably, as they now have seed enough of the the the considerable to sell at the high
to sow and some have prices prevailing. From last year's experience, no dour if the season
ber of farmers will save seed this year it ber ofd prove at all favorable for sed production a see
should shthis will be acting wisely, $\begin{aligned} & \text {, } \\ & \text { that is as free as possible of the piece sowed for seed if which there are alto- }\end{aligned}$, the different kinds of weeds, in so many meadows. gether too mand beell this season for those farmers who
It would be wsed of seed producare intending to sed down with ar of the quality of the
tion another year to be very cartion of the higher grades
is very noticeable this year as put out by the wholesale
trade. With such a demand and the comparative iemond from the U. S. for seeds with campions by the $U$. $S$. buyers, sampleasio charger
have been able to dispose of their low- trade very high prices. Consequently the dirty piece of as on seed hasn't been discriminated against so severely encouraged formers to thresh their hay that was late in being cut and where alsike had a chance to mature its seed. As the season advances it is found that there are a large number of small lots of red clover being threshed which is depressing the trade in red clover to a large extent. Wholesale houses are not buying. Consequently in these seed-producing districts quantities or red clover seed will be sold by one farmer ro aries all which will have a tendency to depress the prioes ail around. Many farmers have deer high and a late seeding time is also having a depressing effect. It is seeding time that the area seeded will be a normal one
to be hoped that at least. Good clover seed is a cheap fertur $\underset{\text { price. }}{\text { Otawa, }}$ Ont.

## To Prove Influence of Pure-Bred

## Sires.

The live-stock committee of Canadian Nationa Exhibition met in Toronto on April 21, to arrange for and decide upon the prize list for the 1920 exhibition. Practically twenty-ive per cin. was adte, so that now for horses, beef cattle and dairy catle, sot the tone practically $\$ 11,000$ are to be gill Arrangements were made for four Clasern. the value of the pure-bred sire. The Prov, which will be ment is providing $\$ 600$ in prize mos, distributed as follows: ln two disy, whed beef classes, grade dams with ofrspring by pured sires may be entered; $\$ 150$ in prize wor for each class. These classes are to be fil ber basis of improvement showi by the offspring own dam. The breeding is to be certifie屯ै by the agricuturi representative of the county from whe team of come, and the judging is to be done by for junior farmers winning the championship or the vince, associated with a competent dairy and ber judge in each instance. Thus the teanion Stock Yards Trom Oxford County, who will judge these four classes at the Canadian National Exhibition, in August, together with an older and more
each of the beef and dairy classes.

## A New Board of Health for Live

## Stock.

We are informed from Otttawa that the committee which has been appointed to consider and draft a a policy for the eradication of disease ame
stock, will meet in Ottawa on the
th
and 6 th of May stock, will meet in tommittee the producers will be repre-
next. On this con next.d by the President of the Western Canada LveStock Union, Mr. Hutton; the President of the Cane R. . Burnaby; the President Council of Agriculture, R. W. E. Burnaby; the Pand the of the Eastern Canaidal Dairy Council, E. H. Stonehresse. The packers will be represented by 0 . W. Walier, E. C. Fox, Frank Matthews, and S. E. Wory Minister, Department will be represented by the Deppel Live-Stock
the Live-Stock Commissioner, the Assistant Lis. the Live-Stock Commissioner, the Assistantan and CanCommissioner,
ned Foods Act.

## Protect Yourself by Renewing

## Promptly.

The subscription price of most publications has already been advanced, and the publishers of the other periodicals and newspapers are se the unprecedented rise
taking the same step, owing to the the cost of white paper, and wages paid to and others. subscription to The Farmer's. Advocate and Home Magazine is not already paid in advance do not delay. Send your $\$ 1.50$ at once, and tenced one

## Former Leader of Ontario Liberals

 Dies at Edmonton.Honorable A. G. MacKay, formerly a member of the Ross Government in Ontario and leacer of the diberal opposition in the Province from pneumonia. Hon. Mr.
Edmonton on Sunday last from MacKay 'went West in 1912 an elected to the Legislature of that Province in 1913 and in 1918 was given the portfolio of Municipal
position he held until his death.

THE FARMER'S ADVOCATE.

## Markets

## Toronto Produce.

 Receipts of live stock at the UnionStock Yards, Toronto, on Monday, April Stock Yards, Toronto, on Monday, April
26, numbered 201 cars, 2,929 cattle, 1,943 calves, 4,136 hogs, 144 sheep and lambs. It was a slow market. Butcher cattle were 50 cents lower than last Monday's
top. Four steers avera lang 1100 ths. top. Four sterss raveraging 1,190 lbs.
each sold for $\$ 15.50$ each; the best load
of 24 head, averaging 1,005 lbs., sold at $\$ 14$. Top cows were $\$ 11$ to $\$ 12$; best bullis were $\$ 11$ to $\$ 12$. Calves were $\$ 1$
to $\$ 2$ lower: tops $\$ 18$. Sheep to $\$ 2$ lower, tops, $\$ 18$. Sheep and lambs
were steady. Fed and watered hogs sold wore steady. Fed and watered hogs sold for $\$ 20.75$ to $\$ 21$. Packers were cancel-
ling shipping orders on account of the ling sosibipping orders
Manitoba ${ }^{\text {Breadstuffs. }}$ Wheat.-No. 1 northern
$\$ 2.80$ :No
\$2.80; No. 2 northern, $\$ 2.77 ; ~$
northern
no. north hern, \$2.73.
Manitoba Oat
Manitoba Oats.-No. 2 C. W., $\$ 1.057$ /8; No. 3 C. W., $\$ 1.027$ \% extra No. 1 , s1.02 $/ 8$;


Ontario Wheat.- F. o. b., shipping points, according to freight; No. 1 winter, No. 3 winter, $\$ 1.92$ to $\$ 11.93$. No to $\$ 2$; $\$ 2.02$ to $\$ 2.03$; No. 2 spring, $\$ 1.98$ to $\$ 2.01$ No. 3 spring, $\$ 1.95$ to $\$ 2 . \mathrm{Cl}^{1}$ 3 American Corn.-Prompt shipment, 3 yellow, nominal, \$2.05, nominal.
Ontario ${ }^{2}$ ats. $-\mathrm{No},{ }_{3}$ white, $\$ 1.0$ $\$ 1.07$; according to freight.
Barley.
Malting
$\$ 1$ Barley-Malting, $\$ 1.83$ to $\$ 1.85$.
Buckwheat. Buckwheat. - No.
Peas. - No. 2, $\$ 3$.
Rye.-No. 2, nonimal; No. 3, $\$ 2.10$ to
Ontario Flour. - - In the jute bags,
prompt shipment
Government standard,
prompt shipment, Government standard,
$\$ 10.50$, Montreal and Toronto.
Hay.-Track, Toronto, No. $1, \quad \$ 30$
to
$\$ 31$; mixed,
$\$ 25$. Straw-Car lots, $\$ 16$ to $\$ 17$.
Millfeed.-Car lots, delivered Montreal
freights, bags included: freights, bags included: Bran- per ton,
$\$ 51$; hhorts, $\$ 58$; good feed flour, per bag, . $\$ 3.75$ to torts $\$ 4$

Farm Produce
Butter--Butter showed a firming tend ency, though prices did not vary much, quoted at 68 c . to 69 c c.; fresh solids at 6.5 c to 67 c . per 1 b .; cut solids, 61 c . to 64 c . per E. and best dairy at 55 c . to 60 c c. per ibl Cheese.-The market was quoted a steady, new large selling at 28c. per lb.; and old large 32 c . per lb.
Poultry
very light, and prices kept stationary, Coultry prices being paid to producer


 bs.,. per lb., alive, 38c.; dressed, 35 c .
Turkys, perIb,., alive, 40c.; dressed, 45c
Guinea hens Guinea hens, per pair, alive, $\$ 1.25$;
dressed, $\$ 1.50$.

Hides and Skins.
Hides, f. o. b. country points- Beef
hides, flat cure, heavy, 22 c . to 25 c . light


 City Hides.-City butcher hides, green,
flats, 25.5 c. calf skins, green flat

sweet clover; No. 1 , fancy, per bushel,
$\$ 22$ to $\$ 24$; choice, per bushel, $\$ 18$ to $\$ 20$ Seeds Retail.
Dealers quote clover and other seeds as follows: Red clover, No. 1, per bushel, \$48; No. 2, per bushel, $\$ 45.60$; Alsike, No.
per bushel, $\$ 4920:$ No $\$ 46.20 ;$ Alfalfa, No. 1, per bushel, $\$ 39$; No $\$ 48$. Sweet clover, best, per bushel $\$ 29.40$. Timothy, No. 1 , per bushel,
$\$ 11.28$ : No, 2 per bushel, $\$ 10.32$ 811.28; No. 2, per bushel, \$10.32.

Tholesale Fruits and Vegetables. The fruit and vegetable wholesales they have not been able to get much in
since the strike and subsequent since the strike and
were declared. Two cars of fresh vege tables which one of the firms managed to get in by sending one member of the firm to Chicago, finding such a ready
market they were practically sold in a day market they were practically sold in a day. prices during the past week-but potatoes advanced and were very firm.
Apples. - Western. $\$ 4$ to $\$ 5$.
Ontario's, $\$ 6$ to. $\$ 12$ per bbl., and $\$ 2.75$ to $\$ 3.50$ per box; Nova Scotians, $\$ 3$ to $\$ 7$ per bul.
Beans.-Dried white hand-picked $\$ 5$ Cabbage.-New, Louisiana, $\$ 9$ to $\$ 9.50$ per case.
Carrots. $-\$ 1.50$ to $\$ 2$ per bag.
Carrots.- $\$ 1.50$ to $\$ 2$ per bag.
Celery.-Florida, $\$ 8.50$ to $\$ 9$ per case. Lettuce,-Leaf, 30c. to 50 c . per dozen; extra large, 85 c . per dozen; Cal. Iceberg,
 $\$ 11$ per 112 liss. $;$ green, 40 . to bac. Parsnips. $\mathbf{\$ 2 . 5 0}$ to $\$ 2.75$ per bag.


Last Week's Receipts and Sales.

And heaviderabte catle receinte in hoog values featured the market at Toronto last week
The borhood of 7,800 , and by Wednesday prices declined. Some exceptionally good
cattle were included in the receipts.. Four cattle were included in the receipts.. Four
heavy cattle averaging 1,340 lbs. topper the market on Wednesday at $\$ 15.75$ per 1,40 lbs., brought $\$ 15.35$ per cwt.; and a load of 18 , averaging $1,250 \mathrm{lbs}$. each,
sold at $\$ 15$. The bulk of steers weighing rom 1,000 to $1,200 \mathrm{lbs}$, sold from $\$ 13.50$ heifers were in demand. Baby beef sold from $\$ 14$ to $\$ 15$
cheaply, hogs advanced from 25 to 50 cents per cwt. Packers tried.to buy hogs mission men claimed that the buyers were willing to pay more at country points
than on the market, and held firm. The result was that most of the tickets were marked up at $\$ 20.85$. A few decks, hot
ever, went to outside buyers at $\$ 21$ Choice calves averaged from $\$ 21$ to $\$ 22$
per cw.., in spite of the fact that 4,000
calves palves were offered. The sheep and
lamb trade was stronger but the receipts were light. Spring lambs sold up to $\$ 18$
each; yearlings to $\$ 22$ per cwt. and ewes
at $\$ 17$ per cwt. $\$ 22$ per cwt., and ewes
and yearinns
Chicago.

|  |
| :---: |
| Market Reports Miscarried <br> The full repert of the live-stock mar kefts and comment, wirich appears weekly on this mese, failed to arrive this weck, and |

## Buffalo.

Cattle.-Cattle market showed the heaviest break last week experienced here
in many a day-shipping steers, of which there was a very liberal number going off normal time of two weeks ago-at the beginning of the railway strike. The
strike had the effect of upsetting the strike had the end meat trade. Train lioads or dressed beef were forwarder tensely-populated cities, to prevent a food famine and, with the quick settling of the strike, this beef accumu-
lated and the result has been that the trade lated and the result hasbeen that in live cattle
has been glutted, resulting months. On the local market was a brief period of exhorbitant prices, during the
strike, at which time handy steers on the medium order sold on an excited market at $\$ 16$, prices considered from $\$ 2$ to $\$ 3$
above the trade prices up to the strike ime. With the opening of freight traffic, however, cattle were rushed to market, both in the west and east and
killers left no opportunity to apply the knife clear to the hilt, resulting in the lowest levels for good weight steers for a
Butchering cattle have long time past. Butchering cattle have
also suffered in values, but not to the extent as the higher-priced grades. A medium and commoner class of cattle,
bought largely by the smaller killers, have shown the least declines. Best shipping
steers were quoted at from $\$ 12.50$ to steers were quoted at irom $\$ 12.5$ to
$\$ 13$, as against $\$ 14$ to $\$ 15.50$ a short while back. A very bad milk cow and springer demand was very light. Shipping Steers. Canadians. - Best Shipping Steers, Canadians. - Best
heavy, $\$ 11.50$ to $\$ 12$; fair to ogood, $\$ 10.50$ to $\$ 11$; medium weight, $\$ 10.75$ to $\$ 1$,
common and plain $\$ 10$ to $\$ 10.50$. Butchering Steers,-Yearlings, fair to
prime $\$ 12.50$ to $\$ 13 ;$ choice heavy, $\$ 11.50$ to $\$ 12$, best handy, $\$ 12$ to $\$ 12.50$; fair to
good, $\$ 11$ to $\$ 11.50$; light and common Cows and Heifers.-Heavy heifers, $\$ 10$ to $\$ 10$; good butcher heifers, $\$ 9$ to $\$ 9.25$; fair butchering heifers, $\$ 7.75$ to $\$ 8.50$;
light, common, $\$ 6$ to $\$ 7$; very fancy fat cows, 810 to $\$ 10.50$; best heavy fat cows,
99 to $\$ 9.50$; medium to good $\$ 7.50$ to
88.8 , $\$ 8.50$ c..50; medium to $\$ 5.50$ to $\$ 6000$, $\$ 7.50$ to Bulls. - Best heavy, $\$ 9.75$ to $\$ 10.25$; good butchering, $\$ 8.50$ to $\$ 9$; sausage
$\$ 8$ to $\$ 8.50$; light bulls, $\$ 7$ to $\$ 8$. Stockers and Feeders.- - est feeders
$\$ 9.50$ to $\$ 10$; common to fair, $\$ 8$ to $\$ 9$; best stockers, $\$ 8$ to $\$ 8.50$; fair to to $\$ 9$,
$\$ 7.75$ to $\$ 8.25 ;$ common, $\$ 6$ to $\$ 7$. mall lots, $\$ 110$ to to $\$ 135$; in carloads, $\$ 90$ o 8100 ; medium to good, small lots, $\$ 85$
o 10 Hogs.- Receipts, as a result of an
embargo on shipments, account of the strike, continued to run very light the
first half of last week, but after Wednes day the runs were more liberal and prices
showed some heavy declines. Monday light hogs sold hat $\$ 19$, and by Wednesday
the he good handy grades were selling up to
$\$ 19.50$, while mediums and heavies were ranged from $\$ 17$ to $\$ 18$. Thursday prices showed a further decline of $\$ 1.50$ to $\$ 2.25$,
she riday heavy hogs ranged from $\$ 15.25$
to $\$ 16$, and the general market for good handy grades, including pizss, was $\$ 16.25$.
Roughs brought around $\$ 13$, and stags
$\$ 8$ $\$ 8$ to $\$ 10$. Last week's receipts were 18,900 head, being against $4,567 \mathrm{head}$ for
the week before, and 22,800 head for the Sheep and Lambs. Last week opened Mith wool lambs selling up to $\$ 23$, and
cliped lambs reached up to $\$ 21.50$, These prices were out of line compared
with other points, and as a result prices Thursday and Friday best wooled lambs
sold at $\$ 21.50$ and $\$ 22$, and top for clips sold at $\$ 2.50$ and $\$ 22$ and top for clips
was $\$ 0$. Cll shorn lambs old the later
part of the week from $\$ 16.50$ down. heep were steady all week. Top for
Shorn wethers was $\$ 14.50$, and best clipped
hwes went st wek, , 5,600 head, the previous week
466 head, and 16,100 head a year a

week receipts reached 9 ino : compared with 2,769 head for the the wet
before and 6,900 head for to before and 6,
a year ago.

## Montreal.

Horses.-There seems to be so
of a shortage of horses in the lo judging from the reports in the papers
to the effect that there are not suffien horses for street cleaning are purposes. At any rate, prices showed little change,
quotations being still $\$ 250$ to heavy draft horses, weighing 1,500 to 1,000 drs, each; $\$ 200$ to $\$ 250$ for light
draft, weighing 1,400 to 1,500 ; $\$ 125$ to $\$ 175$ for light horses; $\$ 75$ to $\$ 100$ to culls, and $\$ 175$ to $\$ 250$ each for good saddle and carriage animals.
of the reported decline in prices of vapite of the reported decline in prices of various
products, dressed hogs were protucts, dressed hogs were firm in price,
with city-dressed abattoir hogs sellon $291 / 2 \mathrm{c}$. to 30 c . per lb ., and country. and bacon were steady; light hams selling
 sold at 43 c . to 44 c ., and Windsor belont bacon at 53 c . to 54 c . Lard was rather lower at 26c. to 29c., according to package,
Poultry.-Trading is almost entirely in Poultry.-Trading is almost entirely in
 to 40 c . per lb . for chickens.
Potatoes.-In spite of something in the
nature of an agitation concerning unhir nature of an agitation concerning unlair practices, the price of potatoes was erthe previous week. Ouebec white todk was $\$ 5.25$ per bag of 90 lbs . carloads, ex. rack, and $\$ 5.75$ in smaller lots, ex-store. Mapte Products.-Supplies are none bringing high prices, maple sugar suld
 Eggs. - Prices showed a further advance, and fresh eggs were quoted at 52 c a
per doz. It was said that 46 c . and 47 c . per doz. It was said that 46 c , and 47 c .
was being paid f.o.b. shipping points on most grains, and oats were quoted lower at $\$ 1.191 / 2$ per bushel for No. 2
Canadian Western, $\$ 1.161 / 2$ for No. 2 , and for extra No. 1 feed; $\$ 1.151 / 2$ for No Butter.-Sales of finest fresh-made creamery were reported at 60 c . to 61 c . .
per 1 lb ., while held goods brought $591 / \mathrm{c}$. 56 c . to 58 c . per ${ }^{\text {gra }}$
Cheese.-Some business was reported taking place at 26 c . to 27 c . per 1 l . for export, small cheese being quoted at 2 ac

to 28 c . Flour.-Prices have been on the firm side of late, and Manitoba spring wheat ute bags, ex-track, Montreal freights, and to city bakers, with 10 c . more for spot cash. Ontario winter wheat-Aour was quoted at $\$ 11.30$ to $\$ 11.40$ per bol., was firm, at $\$ 10.90$ in small lots for ship: Millfeed - Bran was still quoted millers at $\$ 51.25$ and shorts at $\$ 58.25$ per ton, in bags, ex-track, with 25 c . off for above those mentioned for bran, and $\$ 6.50$ above for shorts. When sold worts | at $\$ 58$, in mixed car lots. |
| :--- |
| Hay.-Baled hay was steady, being $\$ 83$ |
| 81 | to $\$ 34$ per ton for No. 2 timothy, $\$ 31$ to $\$ 32$ for No. 3 timothy, and $\$ 29$ to $\$ 0$. for clover and clover mixed, ex-track

Hayseed. - The market was steady and seed was in good demand, with timothy to 77 c .; alsike, 68 c . to 78 c .; sweet clover,
40 c . to 45 c . a and alfalfa, 58 c . to 60 c . per lb. to 45 c .; and Skins. - No change took Hides and Skins.-No change welk.
place in the market during the wel
Steer and cow hides were still 28 c . per
lb., bulls 22 c ., calf skins 63 c . to 65 ., graded kips 30 c . per 1 b . Sheep. skins
were $\$ 4$ each, clips 50 c . each, and horse hides, $\$ 10$ each.

Gypsy Lov Ill the roads of all th us to wander in month set clo se Mayin' time and pla Hand in hand down Harld Beyond the $h$ Hark! Beyond the R Out upon the long hig Let glorious toil-we Whate'er betides, Lo Whate'er betides,
our ever-wand

The Model (A paper by Mrs. at a meeting of
Institute, Grey C Dear, Friey Co., Th
itself is rather a sma itelf is rather a sma
very big meaning, verying than many
mening look into the dif
us us look into the dif
meanings and see ho maciety, and those
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## real.

ms to be sometidis
in the localme eorts in the pape
e are not suffie ning pur $1 \$ 250$ to $\$ 300$ ? $\$ 250$ for ligh 250 eac imals. e in prices of various re firm in price, and country
s at $271 / 2$. Ham $y$; light hams sellii ary breakfast bacon
and Windsor and Lard was rather cording to package,
is almost entirely in is being quoted at kens.
of som n concerning unfair f potatoes was erOuebec white stod 90 lbs ., carloads, ex. raller lots, ex-store. Supplies are none all grades of sugar a further adwere quoted at 52 c .
that 46 c , and 47 c that 46 c , and 47 C .
shipping pooints. ces have develo
oats were quol bushe for No,
$\$ 1.161 / 2$ for No.

Gypsy Love Song.
All the roads of all the 4. 1 us to wander in-Sar-gold nightrs and sun-gold days, and Nayin' time and playin', time a-plenty Io the squanderin'
Hand in hand down all
Fand in hand down all the roads-east and west and south.

## Your Health.

Hatl! Beyond the harbor-bar the wide I seas call the Romany; hawthorn Gat upon the long higt
blossoms sweet
Let glorious toil-we take the spoil of Whate'er betides, Love's pattern guides
our ever-wanderin' feet
Mabel Wilson, in

## The Model Women

 (A paper by Mrs. C. F. Kramer, read Insitite, Grey Co., Ont. Dar Friends. -The word model in tisll fis rither a small word but with a ver big meaning, perhaps a mightier $T-T$ lokk into the different phases of its meanings and see how dangerous it is to wiety, and those with whom we come montact if we are not living up to ou lidh calling. model wein his afternoon? Is it notopethe here to
tocte pood society, to advance the for the good of society, to advance the
coil and well being of our community? mail and well being of our community
Surely it is, if it is not, then it ought to be Surly it is, if it is iont, thens
The word model means, first: Some $t$ thing to show
sminething to tem. Fourth, something worthy of imi tation. Let ts deal with the meanings in the order just given. The first is
smenthing to show the mode or way Then a woman, to be a model woman, must be very careful of the way in which
die conducts herself, the way she goes the ppeed she goes, and where she goes.
Yes, ishe is to be a model to the ros. Yes, ishe is to be a model to the rising
gmeneation she must be careful of the generation she must be careful of the
sped limit, because the highest speed is damys attained on the downward road. And where she goes,--yes a woman must be careful of the company she keeps.
" Show me your company Show me your $c$.
you what you are.
Sheond: Something to be copied. that are worthy to be copied? How often do we do the work of the good vine, binding up the wounds, lifting the wine, binding up the wounds, lifting the
falen and the downcast? How often do
we we speak a word of kindness? Or are me more ready to draw our tight skirts
tighter till and pass by on the ther tighters till and pass by on the other side?
Third and founth. A patter something wothy of imitation. A pattern, something think 0 o ourselves being imitated?
ol ol it you mothers-think of it you who
may come to some extent in contact with may come to some extent in contact with
dididren. Children are great imitators
and the caurren. Children are great imitators
and they learn the bad or the vulgar quite as learn as she mathe responsibibility of the gothe watched and imitated path of life to be and they by their child by her children example fives on long renerations that her
she herself So dear friend
menber that we are cliving model live brush them away and lons rise, we may of joy and hapy and ct the sunligh
smile that spot inat won't rub off, have put on word, and hearts for everybody, a kind mord, and a kindly deery for those in
need. May eexten the we be blad hand of ready to
may thellowship, and
mere never jestlousy or hate, or as one a trace
"grouch commen "grouch commite, or as one might say,
our Salem Woman's in connection witl

Proteins As Building Stones.

PROTEINS (meat, eggs, fish, curds, in the process of digestion are broken down into very simple substances-the amino acids. The body then takes these amino acids and re-arranges them, joins
them together in a different way and forms the body proteins-chiefly muscle. For this reason the amino acids are called building stones. Since they are built up chiefly into muscle you can readily under-
etand why the growing child requires stand why the growing child requires
more protein (meat, eggs, fish, curds, etc.) more protein (meat, eggs, fish, curds, "ted" requires only enough protein to replace the muscle used up or worn out by work, while "Sonnie"" requires proteins not only
for "wear and tear" of muscle, but also for "wear and tear" of muscle,
to make more and larger muscles.
And now, mother, meat will not spoil
son's disposition. It will not make him quarrelsome, ready to fight or pull sister hair. If it should happen that his dis position is riot the sunniest rity (espe cially on the father's side) The Eskimos who live on meat and blubber, are the most peaceful people in the world. They do not require lawyers or judges, neithe do they know any of the problems that occash your mother--in-law or vice versa.
with
Surely this ideal community life could Sure exist if meat had any serious influenc in making you quarrelsome. During the summer I was at Harvard one of the problems studied at Carnegie
Nutritional Laboratory was the effect of certain amino acids or building stones on growth. They took white mice of the same age, sex, color, litter and weight and
fed them a definite amount of carbohy-
drates and fats. Then they would add to this certain amino acids or building
stones, and watch the effect on the growth stones, and wa animals fed on the diet of carbohydrates and fats, and then compare the growtr of minas it was same diet plus an aning an animo acid,
found that when lysine, an long and thin was added, the mice were lorg and anid,
while tryptophane, another amino aculd whine tryp shot, pudgy mice. So they could
produced shize or shape they produce mice of any size or
wanted -either thin, skinn ones, of short, pudgy chaps. It is of interest to
know that the farmer knows something know that the farmer Skim-milk, which
about food chemistry Sk
is rich in lysine, will stimulate growth

Gathering Dandelions.
therefore is of especial value for the
bacon hog, while corn, which is rich in
bacon hog, while corn, which is rich in ryptophane will fatten. The farmer can
tell you all about the effects of these foods on hogs. If we can apply similar reasoning to the child we would advocate the more liberal use of milk to stimulate
growth because it contains the building growth because
stone, lysine.
Meat is one of the most expensiv articles of the diet, Beans contain more
protein than beefsteak, and are therefore a cheap substitute. Peas also furnish hight percentage of protein. Cereals, e. g., oatmear, bres of protein. Bread is spoken of as "the staff of life" because it contains proteins, carbohydrates, with a small per centage of fat,- the three main con stituents of a diet. We make up the
deficiency of fats by putting butter deficiency

The Children's Poem
A Penny to Spend
Say, shall it be a golliwog? or shall it be
Or shall it be a saucy ship to sail the mighty main?
A woolly lamb, a flufy chick, a top, a ball of string,
A box of colored crayons, or a trumpet-
A soldier, or a motor-car, a barley-sugar
to choose from, you can't
With such a lot to choose from, y
make your mind up quick.
Or do you think they'd sell to me a penny
I think of heaps of things I'd like when
I think of heaps of things
re's apples, too, and gingerbs
tarts, and monkey nuts;


I'd rather like a penknife, with a blade It takes a deal of planning out-more than you'd think, my friend
One hasn't got a penny every day, you
know, to spend!

The library law allopted in 1919 by the new Republic of Czecho-Siovakia
leads the world, as far as library legislation is concerned. It provides for the com-
pulsory establishment of libraries by pulsory establishment of libraries by
every municipality and their maintenance every municipality anct considerably in advance of that provided by any other
a

The Ingle Nook
 paper only. (2) Always send name and addrees
with commuication.
If pen name is aloo




## Using One's "Head.

$T \mathrm{HE}$ city women to-day seem to be 1 divided into two classes: those who extravagance, buying anything pretty that suits their fancy, regardless of cost; and those who are economizing as they never thought of doing before the War For still the shadow of the War hang With the latter class, no doubt, the vast majority of country women affiliate themselves. And it is to their credit 1 they do so, willingly and gladiy. There far-seeing man the other day. "If people fould stop buying things they can do without, limiting their expenditure to absolute necessities, things would become stain of dies would have to stop. The trouble is now that we are importing so much more than we are exporting.
wer ar
Well, all that is neither here nor there with the most of us, so far as actual practice goes,-we are doing with just
as little as we can anyway, without discounting the good of our bodies and disMy object in writing this paper is to My object in writing this paper is to
tell you a few of the ideas worked out by some women I know who are using their heads in the matter, and managing to look just about as well as other people In the first place every one of these
women is doing her own sewing; patterns are so easily followed nowadays that there is no difficulty about that. Just Will those of you who order patterns from our paper be sure not only to read he directions, but also to read over your order carefully before you send it, to see
on that everything is right? This will save it is true, mistakes occur on our side-as can readily be understood when one remembers that every pattern is mailed by the girls in the manufactory in New York
(to whom we forward the orders) where many thousands of patterns are sent out in a day. But much more frequently delays occur through careless orders. Sometimes no address at all is given. casionally, when waist or bust measure alone is called for, both waist and bust are given-and that means that the girl must search about in her pattern book
until she finds that especial design. One such "hunt" would not matter much but when the same necessity arises very many times in a day much delay is caused Then a number of people order patterns we do not carry at all. So often has this been add a note to the directions at the head of the Fashion column. Of course the great majority of those who order do so very carefully. All the trouble is caused
by the few who do not "use their heads" by the few who do not "use their heads" in the matter.

To return: I told you last year about To return: I told you last year about
the girl who masqueraded her old buckskin Oxfords as very respectable "paten leather" by coating them twice with colorite. This little lady uses her head about as well as anyone I know. On my last visit to her she showed me with
glee woollen combinations that she is
making now in some spare time to have making them out of the good parts of her brother's old undershirts. The shred still left will be made into braided rugs. She also showed me an evening-gown made by judicious mingling of an old
one with some new silk, and another dress made by mingling an old cloth suit with an old silk dress of the same color, a touch of trimming being afforded by eatherstitching with some fine yarn
ravelled from the leg of an old military "sock." The evening dress cost $\$ 7.50$, the silk and cloth dress nothing at all. The same girl wanted a Chesterfield to put by the fireplace. Chesterfields of the question. So she got her brother to make a framework out of an old piano box and she padded the framework herself and covered it with heavy cretonne. hils the bill perfectly.
Another woman has made a very handbuying nothing new except a bit of material for a vest; while yet another has had a three-quarter length top coat made from her old suit, a long-waisteJ
effect with stitched-on skirt. Countless numbers are dyeing old cotton and light-colored crepe de chine dresses and making them into "new" ones, and
tinting old silk waits to serve as underslips for new Georgette blouses. If you embroidered, you pay $\$ 25$ for it (for a good one that will wear); if you do the beading or embroidery at home the cost will be about one-third of that. Trace a pattern on tissue paper first, being
sure to have the two halves exactly the same. . Of course, everyone knows abount making old waists into corset covers and old skirts into petticoats, but even yet not everyone knows that as weel's the new' by coloring them with as weel's the new by coloring them with
colorite. Old flowers may be tinted with artists' tube paint diluted with turpentine. Indeed this very morning I saw a girl starting of with a paint brush and a
bunch of faded blue "poppies," she was going to tint them with water color and applique them on a blue straw hat with long strands of sand-colored yarn, to
make them lie flat against the crown of make th
the hat.
Now I'm going to do a bit of boasting on my own account. I have managed three coups this spring that have really give. skirt of a before-the-war navy blue suit and putting in a sand-colored vest
(embroidered with a bit of darning silk) to make the coat big enough, I have achieved a suit that will still give much
service. My second coup was in the service. My second coup was in the
matter of watch-glasses. Possibly be matter of watch-glasses. Possibly be-
cause the rim is worn, my watch simply refused to new ones at the rate of two a month This was too expensive, and at the last
fixing it occurred to me that I could glue the glass down; two or three tiny drops of seccateen did the job perfectly Seccateen will truly stick "anything"
and is always on hand in convenient and just enough will come out. I have very provoking corn was proving expen-
sive in the way of corn-pads; every bath meant a new pad, and there are very seccateen. The wet pad was dried, put problem was solved. Coming to chiropody suggests shoes
and 1 am reminded of an economical
 use-shroes, over a hole she can reall



## "rying off the worn layers of leather.


"Using one's head" is a good practice to establish anyhow. The more we practise
it the mote capable we become, the more we gain the power to make things happen as our wisdom tells us they should happen. The more we try it in little things, the
more we see the possibilities of accomplishing by the same way, in bigger things. Don't you think that is true? Junia.

## Dandelions Recipes.

Dandelion Soup.-One cup cooked spoon flour, 1 cup milk, salt and pepper, yolk of a hard-boiled egg. Rub the flour and butter together and cook,
adging the milk very gradually. When it adging the milk very gradually. When it
has thickened into a nice white sauce add has thickened into a nice white sauce add and more milk to make of right consistency. Just before serving put on
top the yolk of the egg which has been top the yolk of the

Dandelion Timbales.-Two beaten eggs, $1 / 4$ cup milk, 2 tablespoons melted butter $2 / 3$ teaspoon salt, $1 / 8$ teaspoon pepper, Mix in order jiven, turn into buttered moulds, place in a pan of hot water and bake in a moderate oven until firm. Turn out of moulds and serve very hot with

Tomato Sauce
Tamato Sauce.-One tablespoon butter, 1 tablespoon flour, 1 cup strained topapper. Rub butter and flour together and cook, adding the liquid very gradual-
Dandelions and Rice.-Season 1 pint boiled rice with salt, butter and paprika.
Add 1 beaten eggand fill buttered moulds Add 1 beaten egg and hitty buttered moulds pan of hot water, cover with greased paper
and bake until the rice is firm. Form a mould of chopped cooked greens (iery hot and salt) on a with butte the rice moulds as a border and sprinkle
them with grated cheese. -Serve with them with grated cheese.-Serve with Dandelion Jelly Salad.-Two ta blespoons gelatin,
cups hot water, 4 tablespoons sugar,
juice, 1 hard-boiled egg, 5 tablespoons vinegar, 1 teaspoon salt, $1 / 4$ teaspoon
paprika or a dash of Cayenne, 1 small onion sliced thin, 1 canned red pepper (if you have it) minced fine, 1 cup inner
tender leaves of dandelion (the blanched ones are best). Soak the gelaltine in the cold water until soft, then dissolve it in the hot water. Add all the other ingredients except the egg and mix well. Cut the white of the egg in rings and arrainge
around the edge of a mould that has been rinsed with cold water. Pour the mixture into the mould and chill until the jelly
is firm. Turn out of the mould, garnish is firm. Turn out of the mould, garnish
with fresh dandelion leaves and serve with good thick salad dressing.

## Dandelions as Food

N
crown from which the leaves
exceedingly good; even if the crown is
$\qquad$ cut out, when needed for greens (not
pulled) in order that the crown may te

jars, place a slice of bacon on top for proceed as usual, in a canner or washboiler, using the three-day method, one first day. Store in a cool, very dark place to prevent the greens froms fading. The 3 -day method is the surest. If a five-pound pressure canner is used, one period of one hour is generally
sufficient to kill the destructive organism. This is the method given by A. R. Mann, Director of the Extension Service of Cornell University at the beginning of became a matter of vital interest. But became a matter of vital interest. But
the use of greens is not merely a war makeshift. Greens of all kinds are a menu, and, if cooked right and served very hot are delicious as well as healthgiving. Among so-called "weeds" that
may be cooked for greens are: lambs' quarters, pigweed, young curly dock young mustard shoots, purslane and young horseradish leaves. Greens that
may be grown in the garden:--Swiss may be grown in the garden:-Swiss
chard, spinach, Chinese cabbage (sow in July), and lettuce. Lettuce, watercress, gardencress, green onions, celery,
blanched endive and dandelion are raw foods that should be used every day if they can be procured. Served with saldition of other salad materials (e.g addition of other salad materials (e.g.
tomato jelly, green peas, chopped beets, asparagus, potato, etc.) they are very delicious, and they are rich in vitamines,
as you should remember by this time. as you should remember by this time.

Letter of Thanks.
I wish to thank the readers of "Ingle Nook" for the information sent regarding never even heard of the tendency of the wool to work through the covering. I am
sure to know of the boiling process to prevent this will be invaluable to me. vocate" all the more in providing such a medium where helpful ideas may be exchanged.
Stormont Co., Ont. Farmer's Wife.

## Removing Stains. <br> For M. P., Peterboro Co., Ont. We do not think you could possibly remove tea stains from grey georgette <br> Will "Another Farmer's Wife" Please <br> Dear Junia. - In the issue of "The Firmer's Advorate" dated April sth, there is a letter from "Another Farmer's Wife", Elgin Co and in concluding, her letter Comforters Farmer's Wife has not the wool of her own she can buy it ready for use done up in bundles similar to cotton balls". Will "Another Farmer's Wife" kindly inform me as to where I can purchase the bundles as I am very anxious to make several <br> Respectfully yours,

## Dear Junia.-My livingroom paper

 is plain oatmeal tan and my woodwork is for my floor. I intended filling the a rugholes with crack filler and giving it four harsware to buy, the paint they to the
not to paint it ; it should be stained.

## Victrola Queries,

omic record for would like to get a gool not "silly", most of them are It is a good one or What Killed the Dogn for the name of one. I would also like soft-tone steel poin know a name use fiber-points point for victrola ory factory if one has clippers most satis them with
expensive. Carleton
is "The Owl that is brigh. D, $y$, The "Cowen" and the Pussycat," (Pathe). Why don't you get the listed as comic you got your victrola from from whidh you got your victrola to send you a
monthly catalogue? has a victrola and many rriend who she simply asks for "medium" and "soft" "sapphire" points.

## Song for "C. W."

 asked for by "C. W." These have song forwarded, hence no more will be neens.The Scrap Bag

## Kitchen Convenien

Fasten a towel rack of the right length will find it a very handy place to You the tea towels when at work.

Use for Old Linoleum.
If there is a piece of old floor linolemm that is still good, it can be used for the top of the kitchen table, fastened on securely with gilt-headed tacks. Keep
a couple of bits of board on the table to set hot pans on. Some people like zinc sheeting for the top of the kitchen
table but it should be fastened down very

## Unexpected Guests.

vected guests arrive and there
If unexpected guests arrive and there
is no cake in the house, don't get in a
flurry. Make some "cinnamon toast,"
as follows. Cut slices of bread about onefourth inch thick and remove all the squares and toast-carefully. Next spread with butter and sprinkle plentifully with
sugar and cinnamon. Returil to the suger until the sugar and cinnamon have melted into the buttered toast, and serve very hot. "Cinnamon toast, when and takes the place of cake very nicelly. In England

Using the Crusts.
Crusts left after making cinnamon follows, in "crumb bread." Dry the crusts and all crumbs thoroughly, grind in the ood-chopper. Mix together 4 cups hat water, $1 / 2$ cup molasses, 2 teaspoons salt add one yeast cake mixed in 1 cap lukewarm water, 3 cups dried bread crumbs, 2 cups graham flour, and enough white our to make a very stiff do in tins, let cise, work down, place

## The Windrow

The price of fue! is bringing back the
"tmotoo-clipper," use of sailing ships. A "motor-clipper,
half as fast again as the old clipper-ship, and with a carrying capacity twice as The ten largest cities in the world by
population when the last official returns population when - London, New York,
were made were - Lond
Paris, Tokyo, Chicago, Berlin, Vienna, Petrograd, Philadelphia, Moscow. The teacher was quoting wise saws to the class and getting their opinion about
them. She said: "A discreet silence is better than the truth spoken without charity.'! Can any boy give a practical
interpretation of that maxim?" Someinterpretation of that maxim. "fle-faced
what to her consternation, a freck lad made this homely applicatione, don't you see a cockroach it."-The Outlook.

Sarth -the
day that
new, keep day that love
nev, keeping o
It comes to us, It comes to apparent unc confidently on
ailed us. An as new as t It would be a And God's morning if it
joy of our live spontaneous as
which wakes a which wakes a the old earth
love is the
everything it
things sacred.
eaders
readers
little chil
that it $m$ up to dry." Th
The bow in link earth and

Hope's Quiet Hour.

## A New Earth.

- erra neiw heaven and a new earth.-
 Sev, John was a. "Seer" and" and 1 am
 ane "heaven", put the treent. God is sonstantnen "outh"at present fiflisis fiss promise to make all yfunting new, We see that with our things eyes, as we look out at
bodily eje wres is new-
 it has never been here and so are the flowers. are perfectly ner,
The spring streams by the roadsideThe spring the children-are new every
so dear to So is the sunshine. It is not moment. So is the sunshing, but every moment. I am sitting in a south window, and the spring surmed by the rays which can lreamed into the room an hour ago? streame it is of Lord's mercies that we are
" not consumed, because every morning." fail not. They are new ever is embracing us The love of the It would be small comfort all the time. It know that He loved us yesterday, if He did not love us to-day.
So it is with the dearest treasure o earth-the love comes to us fresh and day that love cor hearts ${ }^{\circ}$ warm and glad. new, keeping us, year after year, strength ening us to work and endure We lean apparent unchangeableness. has never
confidently on a friend who has and yet this love, which failed us. Ans is really new every morning -as new as the air which we breathe It would be a sorrow instead of a joy if an old friend, whe doy.
And God's love must be new every morning if it is to be the strength an
jop of our lives. It must be fresh and spontaneous as a mother's morning kiss, which wakes a happy child
of a new and unsullied day.
of a new and unsullied day.
It is the love of God which transforms the old earth and the old duties. His love is the sunshine which glorifie hings sacred eders wrote and told me that he ittle child, looking at a rainbow, said that it must be "God's stair-carpet hung up to dry." That was a beautiful thought. The bow in the clouds, which seems to aw saw in dream-the carpet of fair colors beneath the feet of ange messengers to God's children. Those tall in materialistic fashion about the colors being caused by the sunshin only the outside wrapping of one of God's love-gifts to His children. We can look through the familiar visible rainbow, and see in it the fulfilment of "rod's ancient promise made with "for perpetua generations." The bow in the cloud is sacramental "token of a covenant" be tween the Father and His children. His love is new to me as it was new, long ago, the mighty angel who came down from heaven, clothed with a cloud and crowned with a rainbow.-Rev. $10: 1$. Our eyes
(the eyes of the soul) are lifted to Him (the eyes of the soul) are lifted to Him not face His glory, any more than we can face the blinding glory of the sun, if it
were not that we look through that rainbow of lovely emerald color which softens the light.-Rev. $4: 3$. We see
the glory of God in the fare of Jesus Christ. The divine light, shining through us with beauty without blinding us with glory. Shen Man is one with the Father,
The Son of
and His every word and act. Therefore, we are sure of the Fathry Our Brother has lifted the veil which makes earthly things look old and com-
monplace, and has reyealed the new and monplace, and has reyealed the new and
shining treasures which are every day laid in our hands by our Father. When
the Risen Jesus walked along a public road with two heart-sick men, new joy transigured life and that common road
became a glorious King's Highway.

If He walks with us, the familiar roads
and common rooms become new and common rooms become new and
wonderful.
On that same Easter Day cold humbele home. He took un the tasteless
Passover
bread and Passover bread and blessed it. His friends received that plain and common golorifed The common was instant oo them the Lord's Supper. The bread was a renewed token of fis love and the plain fare became a satisty y ing feart. hat our $B$ erery meal, we may remember hato our Brother sits at the head of the trom His hand - for food. We receive it us from God no man can make a prain of wheat, at potato, or any other kind of food.' If we remember that He is with us our tatle-talk can never be legraded into ill-ar ural gossip or faultinding. He the flessas becone a we eated and t.
feast.
We
We have to breathe new air constantly if the body is to be kept in health, and God is als continual of nepence on breath of God which gives and preserves soul-life. As the body can't breathe enough in a day to last a week, so we We re told to pray withour ceasing. We must breathe without ceasing in order to maintain our physical life,
but we can breathe for many hours without remembering we are breathing. So also, the soul can lean back on God in the midst of engrossing work, without consciously thinking about Him.
"Prayer is the Christian's vital breath, It is the life which is hidden with Christ in God which gives us needed
power for daily work. As the blood power for daily work. As the blood
pours out from the heart, carrying warmth and life and healing to every part of the body, so the Life of Christ is secretly
fowing through all the members of His flowing through all the members of His
Body, bringing health and healing. No Body, bringing heath in a see the life indy, but it is easy to see the difference between living body and one that is dead. is easy to see that the Church is alive,
in spite of many weaknesses and sins. in spite of many weaknesses and sins. which is His body. He is also the Heart which is His body, He is also He is continually pouring through each member a cleansing tide of I.ife-new every moment.
A few days ago a little grand-niece A few days ago a little grand-niece
of mine was giving a good-night hug to of mine was giving a are her arms. Where is the Virgin Mary now?" She is not five years old yet but the remembrance of Christ is able to glorify for her an everyday embrace It becomes a sacramental mystety
Perhaps the child dimply understands the truth of our Lord's saying that one who does the Will of God is His brother and sister and mother. He entered a human family that all men might become members of that holy amily by being united
with Him. And so family life becomes something new and sacred. Our relatives are God's gift to us. They are Christ's brothers and sisters, too. In our ordinar work for them we are serving Him.
As 1 wrote inose words one of my me, saying: "I have brought you this at the risk, of interrupting your flow of eloquence." Like a flash I remembered the supper at Emmaus, and I took the cup as a git $\begin{aligned} & \text { Brother }\end{aligned}$ Life is always new and interesting when everything that comes to us
accepted as a love-token from God. sheaf of Easter cards came in this morn "Quiet Hour." While thanking you for your. Frances Ridley Havergal, in one of her poems, speaks of taking pain from the do that without thanking Him for the II like that word) more and more like the victorious sufferer on the Cross. of "pussy-willows," with the message. patients-" a message from God to reGood Friday led swiftly to the joy of Easter,


The Joy of His Investment
Real and lasting joy comes to the father who has made an investment in a

## HEINTZMAN \& CO. GRAND PIANO

One sees it written in the face of our picture as this father realizes how completely this Heintzman \& Co. piano measures up to the expectations of the daughter, on whom a generous sum has been expended for a musical education-a piano that many other world-famed artists.
"Surpassed in beauty of tone and delicacy of touch
any piano I have used. anywhere. and II have
travelled the world over."-De Pachmann.
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takes away fatigue, and is absolutely harmless, as a daily beverage - TRY "SATADA"
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We have at the Western Fair Grounds, London, Ontario, a full stable of 1,900 to 2,200 pounds, and the mares run from 1,700 to stallions weigh froin horses range in age from four to seven years.
We have the class of sires and mares that will produce what the marke nake money on the
We have a new importation of stallions and mares, arrived Apriil 3rd, and
we want you to see them. We will take pleasure in showing our horses to you
whether you buy or not.
G. R. Crouch, Vice-President La Fayetete Stock Farm Company of Cumbu London, Can.

## The Lar ette Stock Farm Coo of Canada Limited



Reliable References : Last spring the Professor of Animal Husbandry at the Ontario Agricultural College
and purch foals and did their share, and more, of the farm work. Write to the Ontario Agricul Last fall the Dominion Experimental Farms, Ottawa, purchased some Percheron mares from us for their various farms. They are working them in harness, and will raise foals this
spring. Write to the Dominion Experimental Farms, Ottawa, and ask them what they spring. Write to
think of Percherons.
Curtormares have given satisfaction wherever they have gone, and we have many satisfied
cuer the country. We have stallions and mares in our stables just as good as


## PERCHERONS

To Stallion Owners: We especially invite statllion owners and representatives of Horse Breeders' Clubs to
inspectour ererenorn stalin.ons. Several of our last year's customers found their horses so popular and thir patronage so


 We have good, biy stalions, weighing fore Goverrment inspected. Allo our stallion
and plaese your patrons. All our stalions are
are suaranteed. We sell on time, and with our guarantee you run no risk. There is are guaranteed. We ell on time, an
growing demand for Percheron breedin

Get Into Percherons---The Popular Breed

"He that fight's his teeth's decay will live to bite another day." If you merely brush across your

4c. for TrialSize Send 4 c . in stamps
for sample of
Coige's R Dental Cream, or of Colgate's Talc. For 2c. more we
will send 3 tiny will send 3 tiny Pe.fumes to make
the famous the famous
perfume lest. teeth, particles of food are left in between them, which decays and soon a good tooth is gone! Brush your teeth the way they grow-up and down.
Dentists recommend this Canadian product as a safe, wholesome dentifice to be used twice a day by every man, woman and child.


Made in Canada



| over soon, and the has prepared a "new heaven" for earth's victors. <br> We shall discover a new carth, here and now, if we learn the great lesson of life-the lesson of loving. That is our chief business in this worl! If we fail in that our life here will be a dead failure, though we may be as richas any mult i-millionaire. |
| :---: |
| This life is but a school time In which we learn to love The friends we see around us, |

"I'm sorry, E.tith," she said agded 1866
 in a momencent she sectet that tusteadily, and
 "Y'm, ashaninet of therself," she eit "Nipo, Shall we wilk it over?", sume
 frimly into hisi che his study and sank




## Serial Story

## "His Family

Serial rights reserved by the Farmer
Advocate and Home Nagazine.)

## 

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ister. "And when I thought 1 had
ached the cud, $I$ called in an expert.Ind he showed me . ways of saving I
had never dreamed of."
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$\qquad$ nd must be paid. The balance would into) April. 13y that time he on well the making mone, for husiness was bedter cery week. But what of this nine must be paid at once. Lower and lower later, his blunt heary visage moments his papers, turnedl out the lief he put away upstairs. The dark house felt figent In his room now. rings had lain unnoticed for many months. Curew out a tray, sat down by the light only small inanimate objects. At first as from tray after tray they glitered duskily up at him, they began to yield before. Spanish, French so often done hemian, Fungarian, R oralian, Bofings small and rings enormous, rabian, hlack with are ror alt, poison rings some again they stol his careful polishing magination with suggestions of the the centuries of women them through churches, couples in dark crooked streets aticneures, love, hate, jealousy Youth At last he remembered why he was here. He thought of possible purchasers.
He knew so many dealers, but he knew too, that the war had played the devil with them as with evervone else. Still, he thought of several who would find it hard resist the temptation. He would see them bidding, haggling. Roger frowned disgustedly. relief. It would bring a truce in his But the truce was brief
On the afternoon when he sold his ollection Roger came home all out of sorts. He had been forced to haggle long: it had been a mean, inglorious day; one onded in a pigstic paths in his he had bought some peace in his home! Women, men women' He shut the door with Islam and went up to his room for asittle the stairs he passed young Betsy, and startled the girl by the sudden glare reproach he bestowed upon her. "feminist" that night! , ar from reassuring. With no Deborah there to wound her prite, Edith lather; lout when he advised her to keep her nurse, she at once refuse 1 to consider it. "I want you to," he persisted, with tried life without Hannah here and he ". It is already scttled, father, I sent "Then you sert her ritht back!" he "sisinate. ". A don't care t" give Deborah," she iit:", "romed at her stomily: "You
$\qquad$ mint arise, which a comple of men woulo-
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Founded 1860 $\because$ she said again, and
tears in her eves, tears in her eaves. and
alith unsteadily, the roome. Deboandy, and nivself,", she ssid
it over?", "I can manage it his study and sank
Yes, it had been
 tes. hate this job
ref the and
ond left. Auput he

The fis | The due next week |
| :--- |
| The balance would | March and on well

t time he bon husiness wase beter
hat of this nine L.ower and lower But a few moments
ay
vase cleared, in the he put away
t the lights and went
house felt friendly vened the safe in the
ollection off clection of curious
cel for many months
cat down by the ight chl over. At At if rit
objects, gradualy ay they gliterect ach, Italian, BoRussan and Arabian, s. poisons, rings, some Acep into Roger's
suggestions of the morn them through
men kneeling in old dark crooked streets, passion. posed why he was
posible purchasers calers, but he herens
plaver the devil with No else. Stitl. he he tion. He would se ing. Roger frowned ough, and it was as
ing a truce in his lirief.
when he sold his
mis. ne liome all out on:
orced to haggle logg;
inglorious day; one ths in his liye oned had
But at least he had is home! Wemen, hiut the dor with he had paid for
young Betsy, and py the sudden glare self he yas no
with Edith was Ne, Eldith guickly to her father: cl to consider it nah here and he 1. 5ather, 1 sent oft lack!" he
, chorah," ste
umily, "You
ct any litele
will get to.
he watched
$c$ was not a
would not
Hash. One posed the

AprIL 29, 1920
Edith, glancing at Delorah. And she Edid the same answer, again and again,
had
for the requests her children made, if they for the request but smallest expense "No;
involved but the we can't afford that," dear, T'm array gently, with a sigh. And under this constant pressure, , Corese nightly bittle thrusts and
would grow rigid with annoyance and impatience. "For Heaven's sake, Edith," she burst out, one night whe "can you think of nothing to their lessons, cear your little family?' "Here it comes again," thought Roger, scowling into his paper.
"No, I can't, not nowaday,
else seems to think of them.;",
ase seems to think ot them',"
"You mean that I don't
"Do you?" thinking of George! 1) you want hime killedy or Japan?
"Are you utterly mard?" demanded
edith. Edith. I'm awake - my eyes are open! But yours are shut so tight, my yoar, you canis war has made us poor and your own life harder, but that know nothing about!" "Suppose you teach me," Edith said, with a prim provoking litle smile. "It has shown that all such mothers as you are out we're bound togetherall over the world-whether we like it or to keep out of war, we've got to do it by coming nithinking, Edith, thinking!" "Votes for women," Edith sald "All right, Edith, I give up." it Youd' better go back to your office now and go on with your work of saving the world. And use every hour of your time and every dollar you possess.
here and look after my children." Deborah had gone into the hall the heavy strect door close. He looked up with a evers door of his study George and Betsy standing, curious, solemn, lind win? CHAPTER XXXV
There came a season of sleet and rain indoors and it was hard to keep them amused. They did not look well, and dreaded the spring, and to carry her family safely through she had taken them, in veeks. That of course was impossible now. Trouble was bound to come, she thought. And it was not long in coming. Sobby, who was ten years old and went to
school with his brother George, caught a wretched colld one day. Edith popped him into bed, hut despite her many pread "Suppose 1 ask Allan Raird to come, "He's wonderful with children, you know." Edith curly accepted his services. She felt he had been sent for to prevent nothing. She would wait. Through long hard days and longer nights she slaved upstairs. All Deborah's proffers of ald
she declined she kept Elizabeth home from school to help her with the many of keeping har licey patients in bed. she herself phat with them by the hours, It night sh: wis up at the slightest Bruce, hat thrilopeet pocumonia. Dile DeThat evenime after dinner, whe foge stairs. She tiomacutely, and glancing mane myaty that



$\mathrm{I}^{\mathrm{F}}$ You we do, that
1920 IS A DUNLOP YEAR
a The ascendancy that shows on our salces som, neat after a purchase you'll soon know that it - You may not tnow
"Res into Dunlop "Ribbed." The vardick on theose two exceedingly popular tirees in
a Try"Traction" or "Ribbbed.

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That the Mileage Keeps Adding Up.
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carages and tire dealens.
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Founded 1866
"Well?" he demanded. "I don't know. We'll have to wait." and they both sat silent. At last they heard a door open and close and presently steps coming dow:
out into the hall:
"Come right in here, doctor, won't you? I want to hear about this myself. the room, with Edith close behind thim. He took no notice of a nyone else. "Write this down, he said to her. "And give man of middle age, with curious dark impassive eyes that at times showed an ironic light, Lake was a despot in a world
of mothers to whom his word was law. of mothers to whom his word was law.
He was busy to-night, with no time to He was busy to-night, with no time to
waste, and his low harsh voice now rattled out orders which Edith wrote down in feverish haste-an hourly schedule, night and day. He named a long list of things needed at once, "Night nurse will be
here in an hour," he ended. "Day nurse, here in an hour, he elay not nurse, to-morrow, eight a.m. Get sleep yourself
and plenty of it. As it is you're not fit to take care of a cat." Abruptly he turned and left the room. Edith followed. The street door closed, and in a moment atter that his motor was off with a
muffled roar. Elith came back, picked up her directions and turned to ther sister. "Will you go up and sit with Bruce? IIl telephone the druggist," she said. Deborah went to the sick room.
Bruce's small face, peaked and gray in Bruce's small face, peaked and gray in
the soft dim light, turned as she entered and came to the bed.
"Well, dear?", she whispered. The
small boy's eyes large and heavy with small boy's eyes, large and heavy with fever, Iooked straight into hers. next instant he tossed up his hands and went through a spasm, trying to breathe. It passed,, , relaxed a little, and again stared solemnly at his aunt. "Sick," he repeated. Wery sick.
Dether fight for his bre. The child had as he did so, Deborah's body contracted too. A few moments later Edith came in. Deborah returned downstairs, and for over an hour she sat by herself.
Roger was in his study, Betsy and George had gone to bed. The night nurse arrived and was taken upstairs. Still
Deborah's mind felt numb and cold Instinctively again and again it kept groping toward one point. "If I had a
baby as sick as that, what would I do? What would I do?"', what would I do? When the doorbell rang again, she
frowned, rose quickly and went to the door. It was Allan.
said, and he followed here, will you?" she said, and he followed her into the living
room

## What is it?" he inquired.

"Oh-1'm sorse. Why didn't Edith let "Se know?" Lake to-night," said De borah. He knitted his brows in annoy "u, Well, I don't mind that," he replied. What did he tell her?")" feel easier now "He seemed to consider it serious-b the number of things he ordered."
Two nurses, of course-
silent a moment. "I night" Deborah, was continued, "but I still feel sure the child
will live, But hard fight. The expense of it all will be
heave.
"Whatever it is, I'll meet it," she said. But even if he could help still, it wouldn't deciding. Because when I was been
you now that if I had a child like that-

## everything-schools, tenement chiltren

thousands! I't use tenement children
should have meen money which
the attention bee theirs, and the time and
hey could starve if shot them all out,
Dcborah turnet her eyes to his, stern
ontinued sharply: And she
children out! And mean to shut those
to me that I cant ower it's clear as day
bally to-night was was the mare finishing yout That


This feel it in your hands. Thisforevee
This is the child upstairs. This is Edith in the house. This is school, the end o
"No, it's what I've decided"
Allan answered steadily wrong decision, "It's made!"
"Not yet, it isn't, not to-night, W won't talk of it now, you're in no co began to quiver suddenly: sensitive lip We will talk of it now
I want it settled-done, with never at all "nough-it's killing me
"No," was Allan's firm reply, "in few days things will change. Edith? child will be out of danger, your othe
troubles will clear away!" uBles will clear away
But what of next winter, and the you see what a load they are Cn father? Can't you see he's ageing fast?" Suppose he dies," Baird answere "It will leave them on your hands. You'। have these children, won't you, whethe you marry or whether you don't! And so will I Im their guardian!
That won't be the same," she cried
as having children of our own-r "Look into my eyes.
I'm looking-" Her own eyes wer "Why coming a mother?" Allan asked. In his gruff low voice was a fierce appeal you'sll be a mother like Edith mind that absurd! You never will! You that a fraid of not keeping school the first thin in your life! But you always do and you always will! You're putting it aliead of me now!"
I "Yes, I can put it ahead of you! But I couldn't put it ahead of my child l" "Because you are strong, and the chitid would be weak! The child would be like Bruce to-night!"
have a child?" "Yes," she
married you I'd want a child. And that want in me would grow and grow until it made both of us wretched. I'm tha kind of a woman. That's why my worl passion for children! They're not my work, they're my very life!" She bowed her head, her mouth set hard. "But so are you," she whispered. "And since this Shall we try to go on-working together side by side-seeing each other every day as we have been doing all these months? Rather hard on both of us don't you think? I do, I feel that way, "The kind of feeling I have-for youwould make that rather-difficult!"
His grip tightened on her hands,
"I won't give you up," be said. "Later you will change your min
He left the room and went out of the house. Deborah sat rigid. She trembled angrily away. Struggling to control herself, presently she grew quieter. Frown ing, with her clear gray eyes intently
staring before her, she did not see her staring before her, she did not see her
father come into the doorway. He stopped with a jerk at sight of her face. "Nothing's the matter. How is "I don't know. Who went out a few "Minutes ago?" "Allan Baird," she answered,
"Oh. You explained to him, of course, "Yes, he understands," she said. "He Roger looked at her sharply, wondering just what she meant. He hesitated. No, he would wait. stair
(To be continued.)

Bushby was sorely in need of al extra farm hand and advertised. "What"ll ye pay?" questioned an early applicant. "'ll pay you what you're worth," promptly replied Bushby.
The applicant meditated thoughtfully The applicant meditated thoughtfully, ecisively announced:
"I'll be durned if I'll work for that:"
"No, that isn't clay them hard. "I

## decided ${ }^{\prime}$

e wrong decision,"
, not to-night, We v , you're in ino cone
wide sensitive lips now, or never at allt
one with! IVe had s firm reply, "in ${ }^{2}$
1 change. Edith's 1 change. O Edith's'
danger, your other xt winter, and the ns children? Can't
de they are on
ee Baird answered. won't yout whether
wou don't And ryou do
ardian!'
e same," she cried, es."
Her ays so atraid of $b$ s a fierce appea e. Edith. And that vill! You say yout school the firrot thing you always do and
u're putting it ahead ahead of youl But and of my chidd! rong, and the chitid
child would be like
ou marry you must red huskily, "if a child. And that
row and grow until retched. I'm tha hat's why my worl They're not m y lifel". She bowe set hard." "But os
ed. "And since th lat do -working togethe each other every
en doing rd on doing ath thes
ret o, I feel that way, I have-for you-er-difficult
"," be said. "Later nd went out of the he brushed then ling to control her gray eyes intently
gray orway. He stopped her face.
?"' he asked. She natter: How is answered.
d to him, of course 1s," she said ""He sharply, wondering
He hesitated. No, aid, and went up-

## n need of an extra

 uestioned an early by youre worth, tated thoughtultytning on his heel, 11 work for that:'

Stronger Citizens-How? the address delivered by Prof. R. M wasuin, 'en's Convention, held
Dairymen's at Moose Jaw.
is certainly a compliment to be It is certainect at once so broad, so ract and $s o$ vital as that containe. divertised title of this lecture.
Some would increase the strength and vigor of our citizens by universal military training, others by sy thers would lay chief stress upon workjothers wourches, and yet others thoild carry out health campaigns. With all of these I have no quarrel- for they al have their place. to confine myself more strice concerning phase I am possibly better prepared to peak. That is the question of food in th relation to our wellbeing. In this here are a multitucue the present time most important at the present time remtition of food to best growth, both hysical and mental, and to certain discases.
deficiency diseases
Scurry has been the dread of sailors, soldiers and explorers since can neginning of recorded prevented or even cured if it has not gone too far.
${ }^{1}$ Beri-Beri, a disease of the Orient, has carried off thousands, probably hundreds of thousands of people, but
it too now is under control. It is not a it, too, now is inder cont tuberculosis and malloox, but is a condition which naturally follows certain insufficiencies in food.
Xeropthatmia or a certain form of sore eyes which became quite prevalent in
Denmark during the latter stages of the war, and other diseases such as porous and weak bone and the like, are now traceable to food deficiencies.
Pellagra, which disease has been a scourge in Southern Europe for cen-
turies, and affected about 65,000 people in the United States in a single year, is traceable in part to a faulty diet Some people almost resent the sug-
gestion that there may be something for them to learn in the matter of food, with regard to discoveries in aeroplanes, submarines, wireless telegraphy, surgery and the like. It is clear, however, that of the century has recently been made amply demonstrated and fairly wel systematized. The discovery in brief
is simply this: That there is a something aside from mere bone building, ash yielding substances required for general growth and well being; that the young will not grow, but will in fact die if a
sufficient quantity of this substance is lacking and that older animals man ie if deprived The nature of this substance, or these substances, for there are known to be hrree or more of them, is as yet poorly pletely, demonstrated that certain common foods lack wholly or targely in all contain liberal amounts.
foods that are deficient. Certain good foods are valuable in their ormerly expected of them; it is essential, herefore, that we know them in order hat while living largely on these sub-
stances their weaknesses may be made good by the introduction of others.
The foods that are now known to be lacking are the following:

| Bolted Flour of: | Muscular |
| :---: | :---: |
| Wheat | Beef |
| Corn | Mutton |
|  | Poultry |
| ${ }^{\text {Potatoes (Centres) }}$ | Fish |
| Dry Peas and Beans |  | $\begin{array}{ll}\text { Polished Rice } & \text { Vegetable Oils } \\ \text { Sugar } & \text { Nut Margarine }\end{array}$

It will be noted from the above list stitute in their original condition either the stored up starch and sugar of the
grains or the muscular portion, or the grains or the muscular portion, or the
extracts of the muscular portion of extracts of the muscular portion of
animals. Any combination in any off
amount of the foregoing food substances
Something else is essential. Early explorers of Quebec, when dying
of scurvy were advised by the Indians to drink a tea made by steeping the inner bark of the young spruce tree: This
they did and lived British sailos demand their lime in ice, thus their common name "Limies." Ance, Ancient sailors, espectally Spanish,
used to carry to sea with them a vegetable used to carry to sea witr shen which they steeped, drinking the tea and thus warding
Oriental victims of beri-beri have been
cured by consuming or drinking a tea made from the polishings of rice. Essentially the same resilt has been brought made from wheat bran. The source of these so-called "vitamines" is not a haphazard matter any longer for it has been proven that the substances bear vital and intimate retation to the growing or vegetative portion
of green plants and to the germ of seeds, of treen to foods such as milk and eggs which by nature were proluced to be food for growing young. Th
prepared to discover the secret.
protective foods.
In the following list, arranged to show their relation to the fat soluble A , and the water solable B and evth and certain diseases is shown a long list of commo foodstuffs which are now known to be protective or corrective in their nature.

> Influences

Found in
Growth glandular
glandular development $\left(\begin{array}{l}\text { Milk } \\ \text { Butter } \\ \text { Cin }\end{array}\right.$ development Cream Chese
Egg Yolk Egg Yolk . Glandular Tissu

xerophthalmia $\quad$| Whate |
| :--- |
| Green Leaves | Goney (Bee

Bread)?
${ }_{\substack{\text { Cream } \\ \text { Skim-milk }}}$
GROWTH
BERI-BERI
RICKETS
$(~$
Egg Yolk
Glandular Tissue
Brain
Fish Roe
Rice Polish
Germ of All Seeds
Wheat Bran
Wert Yeast

| growth <br> scurly <br> pellagra (?) | c. | Skim-milk <br> Egg White (?) <br> Cabbage <br> Settuce <br> Apples <br> Lemons <br> Oranges Onions <br> Green Peas, <br> Beans <br> Rhubarb <br> Potatoes (Out- <br> sides) <br> prouted Grai |
| :---: | :---: | :---: |

From the above we see that every food ingredient in the protective food group is either something the be food for the young, or it was a storage gland or extract thereof of a live growing animal or vegetable.
It is more than probable that other It is more than probabed to these lod subtance work has been done on
lists when more the subject, but we now know enough about these foods and their infruence protect us and our children from mand ills, and in fact to give our young gen-
eration a stimulus to stronger maneration a stimulus than they would probably have developed in any happrozard system.
The best single example of improveThe best single example oring occurred
ment brought about by feed in the city schools of seattle, of the children In that city 23 in their studies, neither did they play in a good vigorous mandied Dr. Brown, the school physician, shildren their cases, arranged a glass of whole min e, in three weeks
afternoon. This done, afternoon. Tre were out to play like
these children we normal children, improved rapiaghout their studies and continued playground and the year vigorous on in their scholarship
so much improved
that the rise in their grade raised the

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The herd consists of 27 females and 8 bulls, all of choice breeding, from families leading from Rose of Sharon, Beauty's Duchess, Nonpareil, Wimples and Rollas. Several of the heifers and calves are sired by Escana
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34 Shorthorns and 6 Holsteins
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TUESDAY, MAY 4th, 1920
the following:Sale com
high grade Shorthorn cows, 9 yearling Shorthorn steers ( 650 cows, 10 yearling Shorthorn heifers ( 600 lbs .) 9 Shorthorn calves (heifers and steers) a very promising bunch, 1 registered Shorthorn yearling bull-a
nice roan full of quality. All the 34 Shorthorns are by a registered nice roan full of quality. All the 34 Shorthorns are by a registered sire
and are in good condition. This is a choice herd all raised on the farm of the proprietor TERMS of monthry credit on approved security, $6 \%$ per annum off for cash. Decision MURRAY JOHNSON, Proprietor, $\begin{gathered}\text { R. R. Ro. } \\ \text { SILAS BRADY, AUCTIONEER }\end{gathered}$ Mossley, Ont.

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scriber, and send your list and the mil
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## grade of the entire city schools $21 / 2$ per

 cent.Dr. Brown has not only done a wonderful piece of work for those particular children, but he has set a pace and
demonstrated large truths which are demonstrated followed throughout the United States.
Dr. Vrooman in charge of the Rotary Clinic, Vancouver, B. C., is now doing similar excellent work on a group o backward children. I saw them three weeks ago and they looked bright and happy. The

- the cost of corrective foods

We cannot adequately assign a value to a substance which is absolutely essen tial, but since, as has been shown, the
growth promoting fat soluble $A$ is found growth promoting fat solys, whale oil, cod liver oil, etc., we can analyze the cost of these solids, and likewise since water soluble B, may be found in milk, cream, eggs, glandular, tissue, germ of seeds, etc., and likewise water soluble C in milk
eggs and the leafy vegetables and many eggs and the leafy vegetables and many
fruits, we can calculate which of these rruits, we can calculate which of these
should be most regularly employed as protective or corrective substances. There are various ways of analyzing foods but the easiest and most direct is to conside them upon the basis of their net substances available to the body. We regularly
purchase much refuse. Bone is paid for purchase much refuse. Bone is paid for eggs and other foods is purchased and consumed, but is not food. When we figure out the refuse that we largely
purchase with various forms of food and purchase with various forms of food, and
figure out also the water contained in figure out also the water contained in these foods and raise the cost figure in
proportion to these waste substances we find a rather astounding situation best shown by the table below:

$\longrightarrow$,

It is most emphatically not meant anhould not eat meat, but it it os our intar the to emphasize the need for milt of biome of all growing chiddrity in the dietary these substances can be procurn in adulto and at less cost in milk and milk than in any other form available ponder In the production of stronger
we must remember that food is the bens of the body and that man's physiais condition must be right before he can
develop mentally or morall and safely.

The Influence of Ayrshire Sires.
Thave become reminiscent this moning and my mind carries me back to my carly dairy cows in my home community some were solid red, some red with white brindle. Thece, some mottled and some but the majority had inturnearned homs horns. The cow that cavecrumpeed quarter pail of milk in flush sidered a wonderful cow and would be worth at least $\$ 30.00$. Suffice it to say the best of them would not give 4,000 lba range from 800 to to Fifteen years later I recall a diftent class of cows, at least 1,000 the bernt in weight, stronger, more vigorous, with upturned horns, red and white in color, and with a larger milk capacity. Thirty jears later,- the old style corr has almost disappeared. She has been supplanted by a strons, vigorous cow of upturned spreating horns deep body with well-sprung ribs, shapely udders and goot
$\left.\begin{array}{|c|c}\text { The Cost }\end{array} \begin{array}{c}\text { And in } \\ \text { comparison } \\ \text { per Pound } \\ \text { Edible } \\ \text { Solids is }\end{array}\right)$

## $\begin{array}{r}\text { Incor } \\ \text { In } \\ \text { Capital and } \\ \text { ExPANSION } \\ \text { G0 H } \\ \text { Our mana } \\ \text { discuss } \\ \text { quiren } \\ \hline \text { Ove } \\ \hline\end{array}$

 en, and in adurl k and milk powide k and milk
a vailable.

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Our strians are the the to Leghorns are Gilispie
and
R. I. Redham Farm Farm stock; Wyandotetes, Martins; R. I. Reds, Farm stock; Wyandottes, Martins;
and Anconal
Rarred Rcors, O. A. C., and Anconas, Sheppard's. 50.000 is our capacity
for this seaso. Write for catalogue and price
lists. We guarantee safo arrival. Lists. We guarantee saff arrival.
LUEENER Crescent and DY HATCHERY
heard men say, "I never saw such fine
dairy cows as you have here." All bedeard cows sas, you have here." All be
dairy
cause
Ayrshire
bulls were univerally cause $\left.\begin{array}{l}\text { Aysshire buill were univerad } \\ \text { used. Their fame ash herd builders spread }\end{array}\right\}$
 district became noted for its high-class Ayrshire grades. So otead dan inearom for
that men came from far and new years cows for foundation stock, A few years
agoa dairy firm in the United States, hat ago a dairy frim in the filk for New 'York
supplied certified mill supplied certine and purchased cows and
City came over and City came back every six months since
have come bat have come
for new. blod. Ayshire bulls build
up the dairy herds of any community, given an opportunity The ise od
Ayrshires on our grade herdd alwaye lead upwards and to prosperity. S. Serepen.

Questions and Answers.




 Veterinary
enclosed. or legal $^{\text {Whey for Feeding. }}$

Is skimmed whey of much value for feeding pigs? unskimmed whey, but it still contains protein, mineral matter and carbohydrates It is the fat only that
the skimming. Skimmed whey should have about one-third the value of skim milk as a feed for hogs. Hens Lose Use of Legs. What is the cause of hens apparently losing the use of their legs, oren? It is generally the laying stock that take this
P. B. trouble. Ans.-From the description as "spring is known to (hemerally speaking this occurs with hens that have been well fed during the winter time and have rell laid very well. where there has been a sho ration. Ap-
feed or meat scrap in the feed or meat scrap as the hens get out of parently as soonble disappears. It is a
doors the troub good practice to give the birds a pords, in of Epsom salts to one hundred birds, in
the drinking water, once a week from the 1st of March until possibly the 1st of May. I think the birds enall right if he will give them a teaspoonful of
Epsom salts every other day for a while.

## War Bond Interest Coupons and Cheques Cashed Free.



The Merchants Bank will cash all Wor Loan coupons or interest cheques when due, on presentation, without making any charge whatever for the service.

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## This Bank? <br>  Head Office: Montreab OF SANLADA Established 1884

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The Farmer's Financial Friend We have large resources and the vast experience of 87 year to draw upon to serve you; but we have something deen more important-we have the earnest desire to do so.
We cash your produce and personal cheques, collect your drafts-all by mail if required-and gladly give you im

## THE BANK OF NOVA SCOTIA

Paid-up Capital $\$ 8,700,000$
We invite your account $\begin{aligned} & \text { Special }\end{aligned}$



Intestacy-Obiec:ional.le Will. 1. If a man has a wife who has worked and helped him tarm stock, and dies without a will and no children living, can his brothers and sisters, mother come in and take divided? 2. Or how would man has five children and he marries again, and is worth about and he marries again, and ansand and dies
fourteen or fifteen thous without a will, what shares will the second wife and the first wife's five children get? It the second wise?
break the will and get her share?
Ans. - 1 . Yes, assuming that the children died without leaving issue. 2. The widow would take in the first place $\$ 1,000$ of the net value of the estate. The excess over the $\$ 1,000$ would yo, one-hal to the widow the other ha co her husband ser mother brothers case wourd They would take in equa shares.
3. The widow would take one-third, and the children of both marriages the remaining two-thirds, equally.
4. Not upon the ground suggestrd. dow to dower.

## POULTRY Cougscm

 Condensed advertisements will be insertedunder this heading tort
insertion. Each initial cour cents per word for one word and insertion. Each initial counts for one word and
figures for two words. Names and addresses are
counted Cash must alway accompany the
ounted. for any advertisement under this heading
rder
arties having good pure-bred poultry and egot arties having good pure-bred poultry and egge for sale will find plent
advertising oclumns.
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BRED-TO-LAY SINGLE-COMB WHITE LEGHORN eggs for hatching-Fifteen 8
\$3. nine dozen 88 . Carefully packe.
H. Baird, R. 1, New Hamburg. Ont.
BARRED ROCK EGGS - STRONG BONE,
excellent layers, fancy barring; $\$ 3$ per setting, excellent layers, fancy barring;
George Murray; Plattsville, Ont.
BARRED ROCK EGGS-FIFTEEN,
thirty, $\$ 2.75$; fifty $\$ 5.50$; $\$ 10.00$ hundred.
From well--rarted and grand laying hens. Order direct
from this advertisement. W. Bennett, Box 43 .
Kin Kingsville,
BUFF ORPINGTON EGGS FOR HATCHING.
excellent laying straing $\$ 3$ per fitteen. N . excellent laying strain; $\$ 3$ per fifteen. N. N .
Cathcart, Stanley's Corners, Ontario. BARRED ROCKS-LAYING STRAIN-SET-
TING 81.50 . Mrs. Berry,
52 Queen Street, $\underset{\substack{\text { BARRED ROCK } \\ \text { bred } \\ \text { strain, } \\ \text { HATCHING EGGS, PURE- } \\ \text { s2.00. Woodycrest }}}{\text { Parm, }}$ BABY CHICKS, ANCONAS, AND LEGHORNS list ready, order now. G. A. Douglas, Ilderton,

BRED-TO-LAY BARRED ROCKS - ONE
seventy-five per setting, five dollars per fifty. Henry Hooper, Guelph, Ont., 83 Nottingham St. BABY CHICKS, HATCHING EGGS-BARRED
Rocks. White Rocks, White Wyandotes, Silver Rocks, White Rocks, White Wyandotes, Silver
Wyandottes, White Leghorns, Rhode Itland Reds,
Incubator capacity 9 ,ono Incubator capacity 9,000 . Satisfaction guaranted.
Write for price-list. Tay Poultry Farm, Perth, Ont., Box 244 .
BARRED ROCKS - OUR STRAIN OF
Barred Rocka are noted for laying; as winter
layers there Is nothing can beat them Barred Rocks are noted for laying; as winter
layers there Ig othing can beat them. Egss $\$ 2.00$

per setting, six dollars for 50 | per setting, siri dollars for 50 , ten dollars for 100 |
| :--- |
| Central Ontario Poultry Yards, Colborne, Ontario | BARRED ROCKS, MAMMOTH SIZE, AND BARRED ROCKS, MAMMMOTH SIZE, AND

exta good laying strain. Egss $\$ 2$ for 15
$\mathbf{s 3 . 5 0}$ for 30 . Mrs. W. B. Anneser. BABY CHICKS GALORE - WHITE LEGLord NS - Beautifully illustrated free price List.
Lond - etablished business. Bradley Linscott. EGGS FOR HATCHING, FROM BRED-TOLAY Barred Rocks; two dollars per fifteen.
Wm. L. Hitll, Wheatley, Ott.
 $8.00 ; 2,83.00 ; 15$ Guaranteed hatch. E. E.
$\begin{gathered}\text { McCombs, Fenwick, OHit. } \\ \text { EGGS FOR HATHING AND DAY-OLD } \\ \text { chicks. Pure O. A. C. bred-to-lay Barred Rocks }\end{gathered}$

$\underset{\text { EGS FOR SALE-PURE-BRED CROWN }}{\text { Rosebud Leghorns, } \$ 3 \text { a setting. Incubator lots }}$ O. A. C. BRED-TO-LAY SINGLE-COMB
Rode Island Reds-Egs for hatching. two
dollars for fifteen. Harry Hedges Hatcin
 lard, Dashwood, R. 2, Ont.
PARTRIDGE ROCKS, BUFF LEGHORNS,
Hatching eggs $\$ 1.50$ per setting. R. H. Crosby ROSE-COMB RHODE ISLAND RED FROM
good winter laying strain. Two dollars for $\frac{\text { fiften. Alex. Mc Kinney, Erin, Ont. }}{\text { S.-C RHODE ISLAND REDS GOD COLOR }}$ selected pen, winter layers. Choice bred-tol-lay
S.C. White Leghorns. Eggs $\$ 1.75$ per fifteen.
W. E. Willson Aura. WHITE WYANDOTTES-HEAVY LAVING
strains my speciality. Egss 83
per thirty fiften, 85 Per tirty. Frank Morrison, Jordan, Ont.
WHIONS 1919. Hatche GUELPH CHAM
Hatche egs. $\$ 3$ per $15 ; \$ 5$ per

SUPERIOR BARRED PLYMOUTH
ROCK
EGGS FOR SALE From 5 Best Bred-to-Lay Families
in both Countries.





H. crozier, Box 16, Meadowvale, O
Eggs Wanted Live Hens Wanted

Questions and Answers.
Miscollaneous.

Fistures.
A rented a farm frgm B. B sells the
farm and A moves out on the list of 1. Can he remove a small gate which put on at his own expense? on the place?
Ontario
Ans.

A, $\underset{\text { with }}{\mathrm{B}}$,'s farm in C live on adjoining farms, It appears that B 's half of the line fence is on high land and A and C's portion
on river flats. This spring a freshet ook away portions of the line fence on the flats. Is there any law to make $B$ or to exchange part of his fence on high land with them?
Ans.-We do not know of any law
which would force B which would force B to assist in building While A and C are unfortunate in having their fence destroyed, B may at some time have his portion wrecked by windstorm. Under the circumstances it would be a neighborly act on the part o
B to assist his neighbors

## Mail Carrier

A rural mail carrier who is working a other jobs a great part of his time hires and the men not knowing anything aboute the mail or the names of the people the mail all mixed up and we never know where to get our own mail
other men handle or draw the mail? let 2. Is he supposed to go around hi route when roads are in bad condition although other people can travel them? 3 . Is there any law for a mail carrier
telling the public when he takes letters telling the public when he takes letter
to certain parties? Ontario.
Ans.-1.
$2 . \quad$ Yes.
3o. Yes. The matter ought to be re-
ported to the P. 0 . Inspector for the
ocal Pose

## Poor Hatch.

Ihem at the incubators and have kept

 What is the cause?
The results suor hatches are unusual. well-known fact to commercial poultry
keepenst-bent keepers-because an egg is fertile is no
absolute guarantee that it will hatch
and one of the most baffling things we have and one of the most baffling things we have
to contend with is how to produce good hatching eggs. There is considerable
evidence that this trouble may be inherited, and likewise there is an by local surroundings such as housing,
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

A rents a ranch from Bes. a straight lease, nothing mentioned about cutting wood A's permission. A always keeps a chain and lock on gate; A finds the chain and lock gone.

1. Is B liable for trespassing and
cutting wood without A's cutting wood without A's permission? and lock from gate, and to what extent in both cases? wood, could A do so without B's consent? Ontario.
Ans. -1 and 3. B is liable, as suggested. 2. It does not necessarily follow that
because chain and lock are gone, $B$ took because chain and lock are gone, $B$ took
them. We would add that the appropriate action against $B$ would be one for damages for trespass.

Breach of Contract
A attended an auction sale March 23 100 bushels bill it was claimed there was was highest and A took 20 bushels. Thr wheat was put up again and the bid was somewhat less, and $B$ took 10 bushels get whate 50 bushels, and D was to got their quantities. A goes to the proprietor and tells him that he will rome the following day and get the 20
bushels of wheat and settle for it, and the proprietor tells A that it will be all right. However, D gets around bright and early the following morning and takes 20 bushels of wheat, and when A arrives about 10.30 the proprietor tells
him the wheat is all gone and he cannot him the wheat is all gone and he cannot
do anything for him. 1. What action should A take to rf-
cover Howeat?
2. How long a has A available 2. How long a time has A available Ontario. An Old Subscribfr. Ans.- 1 . He should place the matter
in the hands of a solicitor with instructions to write the proprietor for payment of damages, and that in the event o be taken; and have the solicitor coms would suit, if necessarv-that is if the lence does not bring the desired result. one in question the action should be conmenced without undue delay.
Veterinary.

Nymphomaniae
Mare is continuously in oestrum.
her ovaries be successfully removed?
Ans.-Females affected this way are diseased ovaries, for which no medicina treatment is effective. The ovaries ca
be removed. Of course, it is rather serious operation. Few veterinarians
have much practice in the operation but if your veterinarian does not operate, $n$, doubt he can secure the services of one who does. The operation is very rarely
performed in this Province.

## Sale Dates.

Moay 4, 1920.-Earl Greer, R. R. May 4, 1920.-Frank Boyle Estate May 4, 1920.-Murray Johnson, R. 1, May 6,1920 .- South Norfolk ShortOnt. Brens May 12, 1920.-Elgin Pure-bred HolMay 20, 1920.-Ayrshire Cattle Breedsignment sale, pringfield, Mass. Ontario. June 3. 1920,-Hood Farm, Ine Jumelle yin andernersod Farm, Inc



Baby Happy Atter His Bath With Caticura Soep
 than a warrn bath with Cuticur
Soap, especially if his sken is hot Soap, especially if his slin is how,
irritated or rashy. After bathin gently touch any irritation withing cura Ointment. They are ideal for Soap 25c. Oin



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"Diamond Dyes" Make Old, Shabby, Faded Apparel Just Like New.

Don't worry about perfect results. Use "Diamond Dyes," guaranteed to give new, rich, fale silk, linen, cotton or mised goods,--dresses, blouses, stockings, skirts, children's coats, draperies,--everything A Direction Book is in package. To match any material, have ded.
show you "Diamond Dye" Color Card.

Mrs. Killifer desired that the picture Ge hung to the right of the door; MM For once the husband proved to be the more insistent of the two, and Henry, the colored man, was summoned to hang the
picture according to Mr. Killifer's order. Henry drove in a nail on the left. on the right. "Why are you driving that second
nail?" asked Mr. Killifer.
"Why, boss, dat's to save me de trouble of bringin' de ladder to-morrow when you,

## Now is the time to plan for an IDEAL GREEN FEED SILO

Begin now to plan for a silo before the spring rush is on. It will enable your cows to give $25 \%$ more milk on a cheaper ration.

The Ideal Green Feed Silo has been the choice of thousands of Canadian farmers because it is the best silo available. Sound lumber best suited for the purpose is used throughout. The staves are carefully made and finished. They are held together with extra heavy steel hoops. The doors and staves are treated with a specially prepared preservative.

The Ideal Silo lasts a lifetime and at present high prices for butter-fat pays for itself in a short time.

Send for Silo Catalogue to nearest sales headquarters

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Empire users consider hand milking as out of date as cradling wheat. The man is an uncertain and costly substitute for the machine at best.
He gets sick-gets tired-gets Empire reliability and correctness cross-quits. He is subject to all of design has established the the ills and faults of humanity. milking machine. The Empire The Empire isn't.
$\qquad$ 365 days in $\begin{aligned} & \text { proved it could be done-not } \\ & \text { once but all the time. Thousands }\end{aligned}$ thtays on the jond year out of users acknowledge this fact -is always uniform in action- and profit by it.
gentle, soothing to the cows and Why not see our nearest dealer milks the same way every day. or write for catalog 13
"The Standard of the Better Dairies"
THE EMPIRE CREAM SEPARATOR CO., OF CANADA LIMITED,

## itoo manufacturers of the Separator with the MLLION DOLLAR BOWL <br> EMPIRE



Canada's Latest Ayrshire Importation The Donaldson Liner, Cabotia; landed at St. John, N.B., on April 8th, with a
large importation of live stock for diflarge importation of live stock for dif-
ferent parts of Canada. Included in this importation was a consignment of Ayrshire cattle and Clydesdale horses for R. R. Ness \& Sons, Howick, Que. The consignment of horses was made up of colt by "Signet." The consignment of Ayrshires represented 10 yearling bulls, 1 two-year-old bull, 25 yearling heifers, and 1 two-year-old heifer
This consignment of Ayrshires represents one of the best importations that
has ever left the other side. They were personally selected from the best herds Scotland by R. R. Ness, who spent Ayruary and March visiting the large many breeders. The most no and Victory", from John Mackie Dalfibble. Mr. Ness had been trying to secure this great sire for some time, and
finally succeeded in landing him at $\$ 5,000.00$. He is being retained until July by Mr. Mackie to do a season's ing merit. He is an animal of outstand ividual excellence from the point of inmilk records in his pedigree His sire was Khe great breeding bull "Netherhal lean 5tone,", and he is out of "Hobsland by "Hobsland Masterpiece ", or her first lactation was 11,250 Her recor lesting 3.97 per cent. butter-fat. At the Hobsland sale, this year, her calf "Hobs and Mendel", sold for $\$ 9,000.00$. "Hobs Ness herd permanently retained in the Another splendid individual is sere. year-old bull "Kelloch Volunteer." His sire "Netherton Viceroy" is by the great
breeding and show bull "Brae Rising America whas seven A. R. daughters in And 398 lbs. fat. The dam of "Kich milk Volunteer" is a big, strong cow with large record. Guide" a yearling bull, was bought at the Hobsland sale. This


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JOHN DEERE-DAIN LEFT HAND SIDE DELIVERY RAKE his is the most profitable method to employ in harvesting hay-whether you market your hay or feed it. Use the Jothe heads of hay, following the mower; the only implement teaves on inside and stems on outside of windrow; makes places majority of leavow for air curing and places them etean an active ight and trash when lifting hay, and preserves frame capacity is greatest condition. This is the rake with the inclined frame; capacire. Every ad where the volume of hay is larg
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 When the hay has all been moved and put in windrig trash. Mounted entirely on wheels.
Dain Hay Loader picks it ut clean without gathering tring frely back and forward
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tion

This is the most up-to-date and profitable method or
harvesting hay. Ask your John Deere dealer about it
JOHN DEERE MANUFACTURING CO., LIMITED WELLAND
erd itirs
bull is to be retained also as a herd sire Scotland's Best," whose dam is "Hobsland Jean 5th," by Masterpiece. He
record is $11,250 \mathrm{lbs}$. milk testing 3.97 per record is. Guide is out of "Hobsland May 3rd," with 9,720 lbs. milk at 3.8 per cent. in her first lactation and 10,540 lbs. milk at 3.98 per cent. in her second
lactation. Hobsland Guide and Hobsland Victory are very closely related and should make great sires for the Master piece heifers. Another bull by "Netherton Viceroy" is "Molehouse Marlitary cross. herd from at the fall shows. The dam of Viceroy has a record of 9,470 lbs. milk at 3.8 per cent. in 294 .days. This young Show in a class of eighty bulls.
Show in a class of eighty bulls. "Holehouse Look Out"' is also by "Netherton Viceroy." He is an extremely stylish individual and was a year old
March. His dam, "Holehouse Jean Again 3rd," gave 7,250 lbs. milk at 4.07 per cent. "Barewheys The Goods," was sixth prize bull at the Kilmarnoch "How this Military Cross." What Care I" stood fourth at the Kilmarnock Show. He is a large, strong in a Canadian ring. His dam's record as a two-year-old was $6,240 \mathrm{lbs}$ milk at 4.58 per cent. The milk record of dam 280 days $10,530 \mathrm{lbs}$. at 3.98 per cent. in 280 days. "Sandhill Optimist" by "Bargenoch Show. He stood third in the yearling class with fifty-five bulls entered. His dam's record was $7,500 \mathrm{lbs}$. milk at 3.85 per cent. in her first lactation. His dam
of sire gave 10,530 lbs. milk at 3.89 per of sire gave $10,530 \mathrm{lbs}$. milk at 3.89 pe cent. in 280 days. Another yearling by "Hobsland Scotland's Best'" was bought at the Barr Sale this is "Hobsland Grand Parade" at 3.75 record of dam was 8, en and $8,070 \mathrm{lbs}$. milk per cent.
at 3.77 per cent. in 40 weeks, this was in the first and second lactations. Record
of dam of sire was $11,250 \mathrm{lbs}$. milk at
3.97 per cent ${ }_{3.97}$ per cent.

The Pilot Superior Pipeless Furnace


Radiated Heat-as transmitted by stove and
other inadequate heating arrangements. -The other inadequate heating arrangements.- The
house is warmed in limited spots around the heat-
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no heat. Waste of fuel, discomfort and even sick-
ness Circulated Heat-as transmitted by the PILOT
SUPERIOR SYSTEM.-The entire house is evenily heated by the natural circulation or con-
nection of air currents. Every room, upstairs and down, is kept warm and comfortable. A
andeat saving of fuel, together with increased
gomfort and convenience, result from this method great savi
comfort an
of heating.

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on that touchy corn, instantly it stops on that touchy corn, instantly it stops
aching, then you lift the corn off with
the fingers. Truly Try Freezone Your druggist sells a
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rid your feet of every hard corn, soft corn, or corn between the toes, and
calluses, without one particle of pain, Business Manager Wanted
$20,000,000$
Cafce in Toronto, we want a native
experience to sucessfully handle other
namic energy will get positive results
and bonus arrangement will make money

WAN'IED STRAWBERRY PICKERS
"Thornhill Renewar" by "Netherhall Renown" was bought from A: Cunningham of Stewartont. He is out of "Nether-
hall Mildred" and his sire is from "Netherhall Mildred" and his sire is from "Netherhall
hall Kate 25th" of the noted "Nether Kate", strain, she gave $10,920 \mathrm{lbs}$. milk at 4,03 per cent. in 46 weeks.
"Finlayston Eclipse," a March yearling, is by "Bargenoch Silver Knight." The milk record of his dam as a heifer was $7,650 \mathrm{lbs}$ milk at 4.03 per cent. as a was $10,200 \mathrm{lbs}$. milk at 4.20 per cent. 41 weeks.
41 weeks.
The heifers are a uniform lot and
picked from some of the best herds in picked from some of the best herds ind
Scotland, such as Hobsland, Auchenbay, Auchenbrain, Palmerston, Whitehall, Killoch, Holehouse, Auchencloigh, Chapelhill, Moorefield and Catlins.
One of the
One of the choice ones of the lot is the
young heifer "Catlins Pansy 6th." She is by "Hobsland Victory," the new herd site for Burnside.

## Gossip.

Breeders of Aberdeen-Angus cattle should keep in mind the sale of
of carefully selected cattle, to be held under the auspices of the Ontario Aber-deen-Angus Breeders' Association, at Toronto Exhibition grounds, on Wed
nesday, June 2. James Bowman, Sec nesday, June 2 . James Bowman,
retary of the Association, has the sale in hand and states that it will be the most select lot of Angus cattle that has been offered to the Ontario public for a long time. A large attendance of breeders and farmers is expected. Western breeders have signell known breeders throughout Ontario are consigning some of their best stuff, and purchasers may rest assured that they will secure a square deal if they patronize this sale

Holsteins at Unionville
A select small Holstein herd, belonging to the Estate of the late Frank Boyle, is advertised for sale by public auction
elsewhere in these columns. The sal elsewhere in these columns. The sale
will be held at the farm one and a quarter will be held at the farm one and a quarter
miles west of Unionville on Tuesday, May 4th, and to enlarge the offering. W. F. Elliott, of Unionville, has consigned six of the best things from his herd
From the catalogue it will be noted From the catalogue, it will be noted, that Mr. Elliott's entries are much the same Boyle Estate herd. The sires used in have been the same, and probably the most noted of these are the two syndicate
bulls, May Sylvia Pontiac Cornucopia bulls, May Sylvia Pontiac Cornucopia
and Sir Echo Johanna Cornelius, the former, it will be remembered, was from
a daughter of the great May Echo Sylvia and sired by Spring Farm Pontiac Pontiac Lass, the breed's first 44 - Ib . cow. There are ten daughters of this sire
listed, and he has been bred to many of the older cows in the herd. The other sire, Sir Echo Johanna Cornelius, and many of the young calves selling are also got by this sire. This bull is got
by King Echo Sylvia Johanna, who is also the sire of the $\$ 106,000$ calf, Carnafion King Sylvia, and on the dam side daughter of Pietje 22nd Son. Nearly all the older things listed in the sale are This, it will be remembered, was one of the best breeding sons of King Pontiac
Art is Canada, and his dam was the 29.04 Ib. cow, Inka Sylvia 6th. This is
select offering in every wav, and bring orward some of the best breeding whic at the same time, there will also be offere acre farm belonging to the Boyle Estat ings are in good repair. For catalogues


## CANADIAN PACIFIC

 THE TRANS-CANADA (Re-established effective May 2, 1920) TORONTO to VANCOUVER
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The fastest transcontinental train between terminals in America; saves a business day for passengers to Winnipeg and all cities to the Pacific Coast.

Leaves Toronto (Union Station) at 9 p.m. daily.
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## CANADIAN PACIFIC <br> General Change of Time, May 2, 1920



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Bob Long Says:
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 BOB LONG GLOVES
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Insist on getting Bob Long
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they will save you money
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BOB LONG BRANDS Known from Coast to Coast ${ }_{\text {I48 }}$

## Gossip.

## Wool Market

 To those interested in wool prices, thefollowing information sent out by the Canadian Co-operative Wool Growers Association may be interesting. "The
American wool markets report a strong American wool markets report a strong
demand for fine wool. There have been a few scattered imquiries and sales of
medium and low medium, of three-eighths medium and low medium, of three-eighths
and one-quarter blood wool in the grease at comparatively low prices. Buyers
for medium grades at present are limited, there being only two or three operating at this time and they are naturally only
buying the best and lowest priced lots buying the best and lowest priced lots.
Large stocks of medium grades are held by dealers in all the American markets, forth, it is an easy matter for any manufacturer to find those who are ready to sell even the best medium wools of all
grades at low prices. There is, however, some encouragement in the result of the
United States Government sale. The upward trend of this sale was a complete surprise to the trade. Another strong factor is the upward trend of the British
auction of March 25. While the general auction of March 25 . While the general
tone of the wool market is improved, the outlook for medium woon ton sadical change topic of discussion and no radical change
in the situation can be expected while present conditions continue. it is be-
lieved that eventually people will demand cheaper clothes, and these can be sup-
plied when manufacturers are ready to use the medium wools. he following Western range wool. On a scoured basis, fine staple is from $\$ 1.90$ to $\$ 2$ per
pound; fine clothing, $\$ 1.75$ to $\$ 1.85$; pouenium staple, $\$ 1.10$ to $\$ 1.20$; and low
staple, 60 to 65 cents Ontario and staple, 60 to 65 cents. Ontario and
Eastern 65 to 70 cents for fine medium staple, 58 to 60 cents for medium staple, and 36 to 40 cents for low staple.

Elgin County Holstein Breeders' Sale. Holstein breeders should keep in mind
the consignment sale of the Elgin County the consignment seld at St. Thomas on
Breeders, to be held May 12. The breeders are co gives an opportunity of securing the progeny of
several noted Holstein sires. Laidlaw Bros. are offering Ourvilla Maple Crest Lad, that carries 75 per cent. of the same
blood as Woodland Banostine Colantha, a cow that has just finished a record of 35.01 lbs. of butter frem a four-year-old. His dam is a daughter of Dutchland Colantha Sir Abbekerk, with 26.48 lbs. of butter as a three-year-old. On twice-$a$-diky. From this herd there will also be three daughters of Maple Crest De Ko Champion, the sire ore also four daughters
Colantha. There are of Finderne King May Fayne, whose dam made a $33.96-\mathrm{lb}$. record at four years o age, and whose full sister had a $35.01-$-ib record. N. H. Meconey is putne seven females in the sale, bunch of cows tested. The blood of such individuals as Queen Butter Baroness, Brookbank ButQuee Baron, King Segis Pietert je, and King Segis. The sire of some of these cows from a high-record
is offering Bonnie Abbekerk, a two-yearold that has just completed a record; also a fulf iutter. J. A. McTavish
with 29.60 lbs. of bute is selling his herd sire, whose two nearest dams averaged 28.97 lbs . of butter in seven days. He has a daughter that
made 17.54 lbs. of butter in seven days, made $1, .96$ lbs. milk at two years of age. L. H. Lipsit is offering ness, and a number of good cows that will freshen about sale time. A daughter of Paladin Ormsby, Maplecroft are consigned by Ryent there In G. M. Vañatterls ready for service. They are fine individuals and of rare breeding. The dam of one of them is N $21-\mathrm{lb}$. record at three years. The dam of the other one is
Cora with a 29.69 - record as a senior four-year-old. These bulls are sired by
Pontiac King De Kol. From the foregoing, breeders will have an idea of the many of the individuals. 7, St. Thomas,
E. C. Gillert, R. R. No for a catalogue, which
description of the various individuals in description


## Don't Throw Cattle Profits Away

The feeding, care and milking of cows are all done to produce profits. Every farmer should see that this profit is thrown away by the use of poor-skimming and hard-running separators.

This expensive blunder is continually being made It can be prevented by using the

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all the cream-it all the cream-it is easy to urn and very convenient in hand booklet, which gives all information and shows the
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THERE are millions of dollars invested in The same elements that make rust, just as farm buildings and machinery. Both surely spell rot and ruination for your frame property and implements can be indefin- house and farm buildings.
itely conserved by paint and varnish at a cost otherwise occurs.

Yet hundreds of thousands of dollars are lost every year to our farmers through rust, rot and wear.

Rust is the deadly enemy of implement or machine. The best steel cannot withstand the inroads of the elements without surface protection.

And what rust and rot
And what rust and rot do in one direction wear will do in others-to floors and furniture for instance.
The surface is the danger spot. All decay rust and wear start there. Surface protectionpaint and varnish-will save your property.
The property owner who tries to save a few paint dollars, loses many dollars in repairs and replacement.
Save the surface and you save all
THIS ANNOUNCEMENT is issued by the Canadian Save the Surface

 Ihe Conseration of Properfy, and has rece

The realization of the above objects will lead to employment
during the Reconstruction Period and bears our entire approval.
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TORONTO, ON

A Forward Policy for the United Farmers? $\mathrm{C}_{0}$ operation Company
(Continued from previous issue) There is the system of central plain. Suppose that the will male it Province placed the Provinctial of thi ment in office, and that all local or municipal officials, councils, schond pointed by the Provinciall, Gere on That would be the system Government authority and many very plauisible and ments could be advanced in supporite argif Efficiency, economy, uniformity may all eem to be gained by the centralization of power. And yet we cling, and Ithi
rightly, to the idea of local sell ment, with all its diversity, bungling and apparent waste. And I venture to ser that few here have much liking for the system of centralized authority, Now it this were the plan adopted by British orowned by the members at large, and the retail societies owred and managed only as branches of the wholesale moitty. Efficiency, uniformity and economy of management might be urged for this and a corresponding insurance againat ocal failure. I am convinced, hovever: that these alleged advantages are thote of Germany before the war, and that,
with her, this system covers up with her, this system covers up vital
weaknesses with an imposing outer ment. I believe thoroughly in the feden! system, in the system of decentralized uthority as opposed to that of centralized authority, in the democratic system, be cause, afterall, the centralized systen io
not democrafic. And in accordance vith this conviction, I cannot help vieving with anxiety certain features of the recent branch store policy of this Company i rave already referred to one instanco where this policy has, possibly quite competition into our co-operative movement, with grave danger to our thitimete success. But here I speak of the poicy in its relation to democratic principles, eatures about it, and so far as I an se we can easily remove the bad fentitio without sacrificing the good ones, But we need to take stock of the situation and see the danger in time. I desire, there fore, to draw
lowing facts:
First: The Federal System has been ested and found good, and is, so far in all countries where the co-operative novement has become firmly estatished This is notably the case in Great Briaia, or seventy-five years until in 1017 its business amounted to $\$ 1,124,568,975$. It is also the system followed without es eption, so far as I have been able to discover, in Europe. The places where ystem has collapsed and where it has not yet collapsed it has not been in operation for a sufficient length of time to give it a horough trial. Or, it may be, altruistic men have been in charge, and so the defects of the sys
Secondly: The chain store idea, while it has been notably successful in some cases, from a capitalistic point of viell, has made a poor showing from a have had sufficient experience on this have had sufficient experience I refer movement in recent years
The Saskatchewan Purchasing Comppany owned a number of branca short few years ago. But it had a short, career, was wound up by its creolders
and involved creditors and sharehol in heavy losses. Railway Association was The National Railway Association was formed in Canada a y it railway centres from coast to coast, depending on the subscription of local capital in investmont association. The aggregate
according to my information wee tween one and two hundred thousand dollars, which was practically all lost, Hall. Thus the co-operative movement hall. Thus the co-operative disrepute in many railroad centres.
The Householders' Co-operative Stores,

Tudhope- Ânderson TYDR Steel Wheels



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lowk into this right

skein or bearing.
We also manufac
ture Low Down Wide
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the Hide," the story of dressing percentages. AMERICAN ABERDEEN-ANGUS BREEDERS' ASSOCIATION
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ing; siza and individual merit are good
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Ltd., was launched about five years ago
in Toronto by a couple of financial men. a chain of stores in Ton was to operate cities. A large amount of share capital was collected, several stores were opened and then the scheme went smash. One of the most pathetic failures of
the chain store plan has been that of the chain store plan has been that of the
institution founded by N O Nelson institution founded by N. O. Nelson, o
New Orleans, known as the Nelson Co operative Association, Limited. Nelson had been a student of co-operation for many years; was well informed on the subject, and a co-operator by conviction,
being much impressed with its moral and being much impressed with its moral and
social, as well as economic value. He - was, for many years, a personal friend of outstanding British co-operators, organized the model town of Leclare, Illinois, business at St. Louis and other centres in
buter the United States for the manufacture of plumbing goods. He was a self-made man of great natural ability and a good
organizer. Altruistic and strongly organizer. Altruistic and strongly co-
operative in character, he turned over his perative in character, he turned over his
manufacturing undertaking to his work manufacturing udertaking a co-operative
people and customers, on
basis, gradually releasing his invested capital therefrom by the surplus profits subsequently made. Then he went to New. Orleans and invested hundreds of thousands of dollars in the Nelson
operative Association, Inc. He organized sixty-one retail stores, a wholesale warehouse, four meat markets, a creamery and a bakery, besides a big farm up the river
for the production of food products. His aggregate turnover was around two million dollars annually. Opersotive in that the scheme not induce the people to co-operate, but his idea was that, as the development
of true co-operative principles in the of true co-operative prow, he felt that if
American people was slow he could successfuly estargy and organiz-
stores by his capital, energy stores
ing and business ability, the people who
were benefiting thereby would have suffiwere benefiting thereby would have sufficent common sense to conch experience be induced to continue them successiuly and through such experience be the co operative movement for its own sake The stores were conducted some six
seven years. They eventually absorbed seven years.
all the resources of the erstwhile millionaire. Thery dollar of the money he had in these stores.
More recently the Grand Army of
Canada proposed a chain food store system Canada proposed a chain food store system with a million dollar capita. places also the chain store idea, and obsessed withave been undertaken to campaigns however, the Co-operative Union is en deavoring to dissuade them from theplans, and to get the in other occupations their fellow citizens col co-operative in to organize gent
stitutions and to develop the same intensively.
This recital is by no means encouraging, and should well make us carefly did no same cause all these cases; but from a co operate in and of view there are a num ber of fatal defects about the pring disaster one or more of which usuad eniumerated as follows: 1. This system tends towards the of a few men. 2. Although the essential principle recognized it is difficult to make it operative because the mattered to be able to numerous and too scattered
attend meetings and participate person ally in the condwers with its accompany delegation of must, therefore, be resorter to3. Central not tend to develop local
cieties does not interest and local pride, nor doestion and
local men in the inception, direct interest control of business. Sustained, mainc is, therefore, personal responsibility fors-
the sense of ing of the actual political power of this common people,
educational process cannot be overestimated. In discussing Mr. Henson,
operative Movement with Mr. Wholesale operative
a director of the Co-operative
Society, who was in Toronto recenty, a
Thim that


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Prices moderate.
Satisifaction guaranteed CHAS. GRAHAM $\qquad$ ort Perry, Ontar
Mardella Dual-Purpose Shorthorns 8 choole young bulls; 30 females, cows and heifers.
All of good size, type and breeding. Herd headed by The Duke; dam gave $13,599 \mathrm{lbs}$. milk, 274 liss. butter-fat. He is one of the greatest living conAll All priced to sell. Write call or prone. Dual-Purpose Shorthorns - Herd, sire Ington Major Maude $=101212=$

 Present offering: A number of 2 -vear-old heite
and some young bulls. Write or come and see.

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 At. Evergreen Hill Farm. Ohe yearling bull bySt. Clare $-84578=$ also a few yearling heifers.
. S. W. JACKSON, - Woodstock, On Scotch Shorthorns $\frac{-\mathrm{Herd} \text { headed by }}{\text { Marauis }} \mathbf{- 1 2 3 2 6}=\mathrm{Maste}$
 GE STOCK FARM SPRUCE LODGE STOCK FARM
Shorthorns and Leiceaters For Sale
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GRAND RIVER DUAL-PURPOSE SHORTHORNS
Herd headed by Prince Lavender 104449 -dam gave $16,596 \mathrm{lbs}$. milk as 4 -year-old coming on-dams now running in R.O.P.
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Shorthorn Herd Sires Solling Quick-I have several young bulls left the
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## BLAIRGOWRIE SHORTHORNS

portance to the much, if not more, insess and development the moverifitest for fermenal many thousands of the mases giviter people in the old land than to the olthe mies it was providing through tis it ith
dustrial,
commercial organizations. On a organizations. On a moment's reflection
one will appreciate the wistom of the opinion. Throughout the world the of tiix are awakening to their political poonke
Hitherto they have be to exercise it. Everywh unaccustomerd has been in the hands of pre previousy it are to exercise . If the common poople that they should be educated in powhy affairs and have experience in the tranc: action of big business. If power is
exercised without knowledse perience, disaster is likely to overate popular
policies. Surties and popular poilition tion of public affairs must inevitabiblystring back the reactionists and retard progress
Apart from political administrater Apart from poiitical administration the
economic responsibilities of pubbic bote are being steadily increased, We having more and more of compullory co. operation applied in the township, pro vince and nation, in the form of public
ownership. By the cultiver ownership. By the cultivation oin-
telligence and responsibility along businlines through co-operative enterpries en can turn out men and women with the capacity necessary to do justice to the principle of pubsic ownership. If business
training for social purposes trainina
advantageous to the Brititish has been so it would seem to confer an ever greater service upon the Canadian farmer. The British working man co-operator is usally a hired worker without individual busines
responsibility.
He does not, in the responsibility. He does not, in the em.
ployment of his labor, have to make both ends meet. That is an obligation reting on his employer. The Canadian lamer is, however, a business man as well as a worker. It is to his personal interest to
have a thorough training in ordety and economical business operations, and a general an 1 comprehensive education in he transaction of big businnes. Under the numerous opportunitites foceint, and of a co-operative society, there is no reason why, at every retail trading point ontario, he co-operative sociert not be the greatest and most con
hensive local economic institution.
4. Devotion and loyalty of local mem. bers, and good business management mey fail to bring its nating of resources and losses. Thus local loyalty and efficienct, if not rewarded will be correppondingly
discouraged. We have not yet readed discouraged. We have not yet rached the stage where we can depend wolly
upon the altruistic spirit to develop thirit and effciency: some reward for such virtues should exist. Moreover, there is serious injustice in taking the surpu) profits of a well-managed society to mipe out the deficit in a society that is haaly manag. Ad to return to each branch store the profit that its good management of good fortune may have created, what would happen if the losses sustained in some of the brate surplus made in the oetter-managed or more sicocossfull branches? There would be notting to divide and the ains of some vanches would have to make good the losese in others, or th
abandoned.
abandor ite ar course that all the I am quite aware, of course, taply to the chain store policy of this Company, but we are sufficiently close to danger to give some cause for anxiety.
The problem which faces us is, then, this: . me must dense somen co-opera: voiding comperition the movement. And to solve this problem it seems to me that we should, as soon as possible, function as a real uil soceties society serving ine existence or that may that are now to con exto existence. And we should link come into existence. Ail societies organized by farmers but also with those organited by city working men. direction a golden opportunity ulust for which may not be open very beoming so numerous that at any time they may form a new wholesale society for that we orm a it is high time, therefore, that we
selves. It
urned our faces in this direction, and the

## PPRIL 29,1920

pderil plan is the only one which will foderal plann meet the need. to the stock held, I would sugese the tederation acquire as soon as into the eder as completely as possible, possiblec now held by individuals who all stock now enough to the said retail residetes to become members thereof. With respect to the stock now hate could also be transferred farmer's clubs it could also and when these to nearby retail societien mwhile, so long as yere formedion partly as retailers the
dubs function held by them as now stock could be held with this general plan And in accordance with that the amount of stock held I suggest that the amount local societies be in in the e central by the latter's. membership; proportiso that local societies be repre-
and and anted at general meetings of the central society ip like proportion, thus carrying out the principle o that the business policy Isuggest further that thatinctly that of a of this Compariety, and that it decline to
widesale societ carry on a retail business in those districts served by local retailsictly fair to such local specialies and in harmony with the general societees and unorganized districts there scheld be no objection to such retair busifressiety on a retail basis until such time as a local society could be organized. pany is broad enough and wise enoügh to adopt some comprehensive policy of consolidating the eopestructive and unin this Prometition will soon develop; semil that if, as a result of this competition, the centralized scheme should triumph over the federal one, real and demorratic co-operation would be kinted a complete anticipate, howerver , will always be many who will not support it. The federal plan, however, will unite all co-operators, and it is the only plan Canada have placed themselves on record as being opposed to centralized contro in Imperia affairs, and it seems to the that we should take the sa
co-perative movement.

Diseases of Bees. (Experimental Farms Note.) Beediseases are of two kinds:- Diseases Canada, have so far been of a transien nature because no effectio the brood, of which there are three, American foulbrood, European foul-brood, and Sacbrood Since each of these three diseases is treated difiterently, an en neglected, it is important that every beekeeper should is imporle to recognize and distinguish them so as to treat the serious one effectively and without delay.
The diseases affect the larva or worm stage of the bee. In American foulbrood, the larva, just after capping, becomes a coffee-colored mass which is so tenacious or viscid that it will rope out sometimes to a length of several inches if a tooth-pick be inserted in unpleasant
and withdrawn, and it has an un and withdrawn, and
glue-like odor. The mass dries down to a scale that adheres tightly to the lower wall of the cell. The capping of the cell containing the arfected lirrailarly perdiscolored; it is often irregularly per
forated, or it may be removed altogether, In European foul-brood, most of the larvae are stricken before they are capped over. They lose their shape and collaps at the bottom of the cell, appearing as a
they had been melted and turning to a they had been melted and the decayed
light straw or gray color. The brood has a slightly sour smell to which is sometimes added a strong odor of putrefaction. The mass ropes out either scale is easily detached, stretched out on its back in the cell, discolored but with skin and shape intact. The juices of the larva are
watery and contain curd-like particles. watery and contain curd-like partictes.
American foul-brood is treated by shaking the bees into a clean hive containing frames fitted with foundation without any of the honey, and taking away the combs of brood and honey which contain the spores of the disesase.
The bees must not be allowed access to the honey unless it has been boiled for an hour, atthough it is fit for human use.
The combs may be rendered into wax.


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deliver it or you can take it out yourself. You can do the work if it's a simple job or call in a local carpenter if greater skill is required. In either event you can be sure of the Beaver Board result-provided you get genuine Beaver Board with the trademark plainly printed on the back of every panel. This mark is insurancefor you as well as the dealer. If you would like practical assistance in the planning of your repair work, write us to-day for a copy of our book "Beaver Board and Its Uses."
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Distributors and Dealers Evervwhere
 Pear Law 12 months, imp. sire and dam; ;one Golden Rose bull. 6 mont foot. One imported Hock-



a few heifers for sale; also several young bulle of breding ase,
${ }^{\text {pinst }}$ just right.
MES MCPHZNON AOMOR
PUSLINCH PLAINS SNONTHOR
Five bulls for sale by Burnbrae Suitan - R. 2 .
A. G. AULD, - Bull-Calved April 23rd, 1919


20 Bulls-SPRUCE LAWN- 100 Females Zecaded by Tmproted Golden Challenger 122388
 bargains in f. I. and T. W. McCAMUS, Cavan, C.P.R., Millbrook, G..T.R. And P.O.,Ont."

Maple Shade SHORTHORNS

A dozen young bulls mported and my own breeding at moderate prices.
W. A. DRYDEN

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## scotch-TOPPED

SHORTHORNS
 sootch Clementinee or addren:
right. Comenen FISCH:
HEN HENRY FISCHER,
R. No. 2, Mitchell, Ont.

The hive should be disinfected by scorch-
European foul-brood is treated by introducing young Italian queens and keeping the colonies strong and well
supplied with stores. This disease will spread very rapidly during a honey dearth in late spring and early summer left queene casses, the colonies shopuld be the Italian queens are introduced before Sacbrood usually disappears after few weeks and calls for no treatment

The Use of Nitro-Cultures In the report of the Dominion Botanist says: "During the last month of the year," advisable for th 194, it was deemed nitro-cultures of alfalfa, red clover a and peas for distribution to the bramble farms." Such was the genesis of the present
system of free distribution of
nitro cultures to farmers, began in the following season of 1916 , and firth yow entering its th year
The branch Farms, by their example tion to visitors given in the condition of their leguminous crops, started the demand of the farming public for these cultures, which it is our endeavor to of our capacity, satisfy
For the benefit of those farmers, who have not yet studied this question, we propose to briefly explain the term "nitro
culture". Since
been known that the introduction into a crop rotation of a legume-that is, one of the plants belonging to the family Leguminosae of which the most important members from the farming view poin
are clovers, peas, beans, and vetches, somehow or other, greatly benefited other subsequent crops. It is only within the last few years that the explanation has The Legumes

## Burnbrae Shorthorns <br> Elighty-three years without change, we have been breeding Scotch Shorthorg. The foundations of many of the best herds in America <br>  can be foumd. High-class young bulls for the breeder and the farmer. Cown and heifers of the finest breding to start youright and you cannot afford to start wrong. Every animal that Y have sold in two cannot afford to start wrong. Every anman years has been satisactory the most of them sold by letter. I can satisis you with the best in you a  ROBERT MILLER <br> Stouffille, Ont.

## 40 SCOTCH SHORTHORNS

arrived home Dec. 17th. From our herd of 125 head we can offer a large eslection
inn choicely-bred bull and females, Anyone in need of foundation stock may
find it to their advantage to look over our offering before making any purchases.
J. A. \& H. M. PETTTIT

FREEMAN, ONTARIO
Imported Scotch Shorthorns $\begin{aligned} & \text { For Salo-three imported bulls, one yearling } \\ & \text { one two-year-old ando ur thre- year-old herd }\end{aligned}$ sire, also a choice two-year-old Orange Blossom of our own breeding and three well bred bull calve
about


Spring Valley Shorthorns have a number of good bulle Pride 96365. We brother also, an extra well bred Rosewood, and otherhe. Write for particulare 122760 , sale, ind hindind ing full
$\qquad$

 Ler-fat). Also a pair of bulls from untested sisters of our $18,864 \mathrm{lb}$. milk and $777,5 \mathrm{llb}$. butter,
4 year-old heifer (Marie Calamity Fayne)
and priced right. (Mor full particulary, write
R. HONEY \& SONS, Dartford, Ont. (Hastings Station)

Cedar Dale Farm-The Home of Lakeview Johanna Lestrange, the $\$ 15,000$ sire -He is the
 A. J. TAMBLYN, Cedar Dale Holsteins, (C.N.R. station one mile), Orono,

## Cedarbrook Farm Holsteins

Warm one-half mile from Inglowood Station C.P.R..G.T.R.)
Ehe are offering two young sons of Highland Pontiac Sylvia a 31.92-lb. son of Avondale Pontia
Echo. These are choice voungsters, ready for service and we guaral

rootlets small nodules or bear on theil size of a pin head upwards, Microesthe study has shown that these microssopic tain numerous small organisms, known as bacteria. These organisms belong to a particular group with a number of
definite strains, each strain confining itself, strictly to a apparently plant or group of plants. A particular of subsequent experimenting has proved that these bacteria convert the nitrogen
of the air into a chemical formen of the air into a chemical form which the
plant or group of plants assimilate. The association can readily of plant and bacteria is decidedly bene. The net result, at legumes and the soil, The net result, at the end of the season, is a valuable addition of nitrogen to the
farmer's field, at, practically, no Now "nitro-cultures", are simply collections of these bacteria ready bottled others, grown on artificial soill from ail of a jelly made from an oriental seawned mixed with chemical salts, and then
bottled for sending bottled for sending out.
The farmer, when he receives the cul-
tures, breaks, up the jell tures, breaks up the jelly, shakes it up and wets his seeds with sugared water, liquid. This distributes the batterin over the seeds, which, when dry, are sown; and, so, plant and bacteria are brought into intimate contact from the Ni.
Division of Botany for alfalfa and the clover, red and alsike clovera and sweet andjare put up in bottles containd peas, cient bacteria for the treatment of about a bushel ( 60 lbs .) of seed. Cultures are supplied fee to farmers on applica Experimental Farm of Botany, Central on their stating the crop for which ontario is required, and the quantity of seeds proposed to be treated. Only three such bottles in all, however, can be Inglis, B. A., Assistant Botanist, Frneti mental Farms.

The entire Herd belonging to the Estate of the late Frank Boyle, selling at the farm $11 / 2$ miles west of UNIONVILLE, ONTARIO, TUESDAY MAY 4th, 1920

To enlarge this sale, W. F. Elliott consigns six head IF YOU WANT THE BEST OF FOUNDATION MATERIAL ATTEND THIS SALE
Included in the offering are:


May Sylvia Pontiac Cornucopia A great young breeding, sire from a daughter of the breed's greatest cow May Echo Sylvia and sired by a son of K. P. Pontiac Lass the World's first $44.18-\mathrm{-l}$. cow. The daughters of this sire have won more money in the calf classes at Ontario Exhibitions than those of any three other sires "best" in this sale.
\& Eight daughters of
King Pontiac Artis Sylvia
This is one of the worth-while bulls used in this district during the past
several ycars He is sing several years. He is sired by King
Pontiac Artis Canada and his dan was that great 29.04-1b: cow Inka Sylvia 6th. His oldest daughters selling are 1916 heifers and they are
Mrs. Frank Boyle, Unionville,

$\underset{\text { Thay EEHO SYLVIA }}{\text { (The World G Grantes Cow }}$
If you buy this breeding you buy the best

Cornucopia or Sir Echo Johanna Cornelius.
Sir Echo Johanna Cornelius (Brother to the silos, 000 bull)
This bull is sired by King Echo Sylvia Johanna who was also the sire of Carnation King Sylvia the \$106,000 calf. On the dam's side he is from a 32.26-1b. four - year-old daughter of Pietje 22nd son. His calves as yet are only youngsters, but the half dozen selling will be a feature ${ }^{\circ}$ of the offering. He with May Sylvia Pontiac Cornucopia has been the chief sires in service. The majority of the breeding females are selling safe in calf to the service of one or safe in calr to the service of
the other of these two sires.
At the same time the farm will alo be
offered by public sale, esubiect to a reserve Offered by public sale, subject to a reserve
bid. This is undoubtedly one of the best 175 arce lots in Yorkt County. Call and look For catalogues apply

## Elgin Pure-bred Holstein Breeders' Club

60SIXTH CONSIGNMENT SALE HEAD St. Thomas, Ont., Wednesday, May 12th, 1920 head 60 Seven Bulls

## Fifty-three Females

One e ${ }^{\text {a }}$ 3- brother to Woodland Banostine Colantha, 3.01 los. butter, 70.10 lbs . milk at 4yari One by same 29.19-1b. 4-year-old sister li. Heier
of the above 5 5.01.tb. cow, sired by a son of
ond Pontiac Korrdyke Het Leo.
Others from R.O.M. sires and dams.


 old record of 20.88 lbs . butter in 7 days.
Space will not permit me to tell you all-so write for catalogue.


Fred. Carr, Presı, R.R. 8, St. Thomas, Ont.
E. C. Gillbert, Sec, R.R. 7, St. Thomas, Ont-


Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guarantoe higkest markel price.
ONTARIO CREAMERIES LONDON LImited ONTARIO Thames Valley Farms


 B. B. McCarty Trst 860.00 takes him. Themesford, Ontario For Sale ${ }^{-T \text { Two }}$ resistered Holstein bulls, one




Glencairn Ayrshires -H er d established ${ }^{40}$

 Pleace mention The Advocate when writing

Questions and Answers.
Miscellaneous.

## Apoplexy.

1 have a bunch of young pigs about until a few days ago. I have been feeding pulped roots, shorts, and some corn chop. I have no milk. I noticed one day thful of feed and then fall back and struggle. After a time they would come struggle. After a time they wound cone the
around all right. Should I get rid of around all rig
brood sow?
Ans.-This is a case of apoplexy,
It is due to high feeding and lack of It is due to hign aredhop is a little too exercise. Mour corn chop is. When you have no milk it is a good practice to feed
a little tankage in order to balance a little tankage in order to balance
the ration. Purge each with 1 to 2
俍 ounces of Epsom salts, and feed some
finely-ground oat chop in place of the finely-ground oat chop ing get exercise.
corn. See that the pit corn. See is a good one there is no reason
If the sow should get rid of her. The
why you why you should get rid of her. The
trouble is in the feeding, not in the sow.

## Gossip. <br> Robert Miller, of Stouffille, whose

 advertisement ofregularly in "The Fharmerthrns advocate", | regularly an |
| :--- |
| writes as follows: "I believe in giving | wredit where it is due, and "The Farmer's

cred Advocate" deservessome credit discriminatisin-
ing me with a lot of disrin tike. ing me wand that is the kind I like,
customers, and a lot of splendid young
We have had We have had a lot or splen well as a
bulls, and heifers for sale, as whe who got in nuuch with me through the advertisement in "The Farmer's Ace have had a splendid that kind, so that we have had a sping list
trade and have added to our long list trade and ine many men who know the
of customers mand of custof good sires and dams, and who
value of willing to pay a fair price for them.
are we done A great part of my trade has to be done by letter, and in every case
the most satisfactory relies. I intend
俍 that it should be that way, for it is worth
more than ordinary profit and it pays that kind of profit too. Many men
tre finding that they must have better are finding that they
grade of cattle to use the expensive grains and grasses. We are deplorably short of good cattle and they are going
faster that faster than we are breedng them.
ing in the world pays better and they pay their breeders
wealth of the country, improve the foo supply and furnish at onc and the same time the greatest necesss,
that mankind can have.

Editor "The Farmer's Advocate": Your Christmas Nunber is or from
glimpse of Santa Claus. It it goo entitled "Our Country's Call" is worth
the year's subscription price of your paper alone, not to mention your un-
excelled "Hope" or Junia in the Ingle excelled "Hope" or Junia in the yors.
Nook, I wish you continued succes.
Huron Co., Ont. Chas. H. King.

## Hamilton House Holstein Herd Sires

Our highest record bull for sale at present iese 2 monthe call from Lutu Darkness,

D. B. TRACY, Hamillton House, Cobourg; Ontario

Hospital for the Insane, Hamilton, Ont. HOLSTEIN BULLS, ONLY, FOR SALE
Senior sire is from one of the best mons of King Segis Alcartre Spofford. Junio
of the noted May Echo Sylvia, by Champlon Echo Sylvia Pontiac.
Write to the Superintendent for prices, etc.
HOLSTEIN HERD AVERAGES 18,812 LBS. MILK
 the 4 , ooo-lb. clase country
 ,

## \section*{w. A. clemons} <br> Raymondale Holstein-Friesians <br> A herd sire of our breedidin will improve your herd. Whe have sonn of oure, pres.


hould not remin jong. Write to-day.; RAYMOND, Owner, Queon's Hotol, Montroal RAYMONDALE FARM, Vaudroul, Que. Din King Pontice Rauwerd who combinee Cloverlea Dairy Farms Herd headed by King Ponteric Raumd dio Hit ond
 GRIESBACH BROS., -



WALNUT GROVE HOLSTEINS
am offering a choice lot of bull calvee dired by May Echo Champlon who wa full brother of world
 Sylvins Walker Raymondale the dre of the male mority of our younse Syivius War


## ELDERSLIE HOLSTEIN-FRIESIANS

ELDERSLIL HOlves left, from four to six month ond. They are
 ARCHIE MUIR. Elderalle Prem, :is SCARBORO' P.O., ONT.
 44 IV D. C. FLATT \& Son, r.R. No. 2, If you want 30 Ib. bull - good dindividuals-and priced right--you should aee my yreenen offering, 1 alas have lower priced HolThY, Manchester G.T.R.; Myrte C.P.R.; PORT PERRY, ONT. "Premier" Holstein Bulls Roady for Sorvice- 1 have geveral oung bulid from damk with


HOLSTEIN SPECIAL







SPRINGBANK R. O. P. AYRSHIRES
 A. S. Turner \& Son, Railway Station, Hamilton Ryckman's Corners, Ont.

## Questions and Answers.

 Miscellaneous.Washy Horse.
Chave a seven-year-old horse that
driven, and freo scours when driven, and
when standing in the stable.
frequently
$H$ timothy hay three times a day and half a gallon of oats- night and morning.
What is the cause and cure for this trouble. Ans.-Horses of this E. E. A. M. . "washy." It is due to faulty digestion,
due to weakness of the digestive glands.
Some horses Some horses are so strongly predisposed
o the trouble that it is almost impossible to check it. Have his mouth examined
again, and if necessary his tect dressed Give him a laxative of $1 \%$ pints raw linseed oil. Get a mixture of equal parts
of powdered sulphate, iron, gentian,
pingre ginger, mux vomica and bicarbonate of
soda and
thrivec mima a heaped tablespoonful


## 100

Sophie Tormentor Jerseys At Auction, June 3, 1920 Register of Merit Cows, Bred Hoifers, Holfer Cal
Bulls Ready for Service and Buil Calves.
 sire of 73 and 24 sons; Pogis $99 t h$ of Hood Farm, sire of 70 and 10 sons. The champion producing
blood of the breed. Herd tested by U. S. Dept. of Agriculture Veterinarians She HOOD FARM, INC

LOWELL, MASS.

## BRAMPTON JERSEYS

the largest Jersey herd in the british empire

first-prize young bulls from R. O. P. dame, as well as females of all ages.
B. H. BULL \& SONS

Brampton, Ontario




For Sale--Edgeley Golden Jolly, son of Queen 2 nd-1st prize in 2 -year-old in AS. BAGG \& SONS EDGe.

DON HERE OF PRODUCING JERSEYS
choice bred heifers. Visitors welcome.

## 100 <br> 0

with only a limited quantity in the mornwith only a limited quantity in the mornMature Sire. Will using a year and half old sire year after year have a tendency to produce rather small and inferior stock as
pared with the progeny of a well-matured pared
sire? 2. Is it possible for our scientific alfalfa, thereby giving us a much hartier legume?
Ans.-1. It will have a tendency to do so. It stands to reason that the progeny of an immature sire will scarcely be as strong as that of a mature onere continued for generation after generation; there would no doubt be a weakness in the cattle.
be cross is possible that the plants may of crossed so as to secure a hardy legume siderable quality of alfalfa. Already cotion of alfalf to has met with success. Then there is a" which many claim is of finer quality than the ordinary white-blossomed variety, and is thus more suitable for hay

Editor "The Farmer's Advocate"
My wife swears by your paper, and
lectures me for being careless in paying. lectures me for being careless in paying.
Montreal, Que.
W. RobERTS.

Questions and Answers. Miscellaneous.
Cubic Feet in a Ion of Hay. How many cubic feet are there in ton of well-settled hay? Ans.-It is generally estimated that
450 cubic feet will weigh 450 cubic feet will weigh out a ton.

Guinea Hens.
Where can I secure a pair of guinea
hens? hens? Ans.-We do not know just at present
of anyone having a nair for sale but if or anyone having a pair for sver but if
you would place a small advertisement you would place a smans you would no doubt get
in our coluwith thes for
in touch with somene having the in touch with someone having these for sale. Old Oats.

1. Would you advise sowing oats
that were grown two years ago? 2. Is it lawful for a man 2. Is it lawful for a man to marry
his brother's widow? his brother's widow?
Ans.-Yes, provided the oats have been properly stored.
$=$ Removing Material From Farm. A buys a farm from B who agrees to leave shingles which he had bought for
house, also car and rope in barn. When house, also car and rope in barn. Whd car
B moves he takes the shingles and and rope. Can B do this? G. W. F Ans.-If nothing had been agreed upon, B would have been at liberty to take the
shingles, car and rope. As B took these shingles, car atd apeing to leave them,
materials after agreeing it indicates that he is not man of hís word. If this were a written agreement, or there was a witness to the agreement
A could force B to return these things.

## Large Black Pigs



 type ard sood size. Try them. ReasonAlso English dual-purpose bulls.
LYNNORE STOCK FARM
F. W. COCKSHUTT

Brantiord
Ontario
If You Want Fine Porkers, Use

## Gardiner's <br> Pig Meal

There is money in pork, and the wise farmer pays the little attention once they are weaned.
The object is to fatten them quickly and $\begin{aligned} & \text { y } \\ & \text { fect digestion. }\end{aligned}$
Gardiner's Pig Meal with skim or separated milk is the perfect, substitute for thrive mother's milk. rapidly, thus on it and grick profit to the farmer.
Sold in 25,50 or $100-\mathrm{lb}$ bags. If your dealer
none, order direct from


YORKSHIRES
gss of different ages, bot
from large litters. WELDWOOD FARM Parmer's Advocate, London, Ontario YORKSHIRES

5 SnAt Westside Farm Small pigs of "Weldwood" reed ready to ship; write at David A. Ashworth - Denfield, Ont Inverugie Tamworths Young boars from 50 pounds up. Meadow Brool Registered Yorkshiresservice, from prizewinning stock. Prices reason G. W. MINERS, R.R. No. 3, Exeter, Ontario

Lakeview Yorkshires ly you want brood sows of any age, stock boars of
any age, or young pigs, write me. All bred from prize-winners for gererations back.
Port Credit,
Large English Berkshires 1can supply select breeding stock, all ages. 2 boars
and 4 sows, 4 months old. from registered stock. F. L. ABBOTT, 4 months old, from registered stock. TAMWORTHS Young sows, bred for May and June farrow, and
boars for sale. Write or phone. JOHN W. TODD Big Type Chester Who to Trie Chester Whites - London and Toron ${ }^{\text {to Exxhibitions, }}$ 1919. Now offering pigs from our JOHN ANNESSER, Tilbury, Ont. Shropshire Yearling Ewes bred to Bibby's eme lambs sired by him. Two Shorthorn bulls. W. H. PUGH, M

## Salting Cows.

it at all ti salt where the cows can get it at all times, or to give it only at certain intervals? carbolic acid. It is a good practice?
Ans.-1. The best plan is to have salt where the cows can get it at all times. mended, although a very small quantity has in some cases been given. A cow that is in proper condition at time of freshening is soldom subject to this trouble. Enlarged Fetlock.
driving mare got struck on the ront foot a year ago and the fetlock is enlarged. What can I use to reduce this swelling?
2. Where could I get a book on fox farming? ${ }_{\text {Ans. }}$ 1. Apply a liniment made of 4 drams earh of iodine and iodide of potassium and 4 ounces each of alcoho and glycer with 2 drams each of biniodide cure mercury and cantharides mixed with 2 ounces of vaseline.
2 . We do not know where a book on this subject could be obtained.

Moving Hay.
I moved on this rented farm two years ago. Lease is worded "all feed must be fed on farm." When we came there there was no hay. Ihad to buy sorne them my cattle until I could put them I am pasture, so I boug in could I be stopped moving this my four tons away, when I moved? Ans.-I do not see that your four tons of prevented from tad you have paid the hay away provion the matter of payment
rent. I mention of rent in view of upon if you happened to be in default in that regard.

## Cut Worms.

Last year my vegetables were largely destroyed by cut wome in the same place this year were sown in be destroyed. H. D. Ans.-1. It is probable that the worms may bother again this year. garden is to ment for cutworms in ex exture. This use the poisoned consists of 20 ibs . Paris green and two to one-hal pallons of water. This should be three gad thinly along the rows affected as soon as the cutworm injury is noticed It is important that the poisgned bran be scattered after sundown to attract will be in the very when they come out to feed at night.

## EARN

## A Pure-Bred Yorkshire



You can do this by sending 25 New, Yearly Subscriptions to
The Farmer's Advocate and Home Magazine
Each subscription must be accompanied by the sum of $\$ 1.50$, and
when remitting, use Postal Note or Money Order. These hogs are bred Note or Money "Tader Farmer's Advocate" farm, and you can have your choice, Boar or Sow of weaning age. and the pigs shipped in rotation, as they become reidy for shipment.

## PLEASE REMEMBER

Write plainly all mames and addresses when sending subscriptions. Each subscription sent must be for one year, and must be that of a bona fide new subscriber.

Renewal subscriptions or changes of name from one member of household to another do not count.
THE WILLIAM WELD CO. LTD.,
London, Ont.

## Make That

 Lazy Loafer LayYou can't afford to keep a layy bire about the
place. Every hen must be a producer if Cande is
Elo

## Pratts Poultry Regulator



ELMHURST LARGE ENGLISH BERKSHIRES
 can suppy ill
H. M. VANDRLIP, Breeder and Importer, R. R. 1, BRANTTO
Langford Station on Brantford and Hamilton Radial.
$\square$ BEPKSIR ESWM DAM the best strain of the breed, both sexes, any age ADAM THOMPSON, R. R. No. 1, Stratford, Ont ADAM THOMPSON, R. R. No. 1, Strat


## The H. C. of B.

is largely caused by waste resulting from spoiled cakes, pies and pastry

Many people do not consider baking powder a very important ingredient inf baking, whereas it is most important-Success or failure depends upon the powder you select.

## EGG-0 Baking Powder

helps keeps down the HIGH COST $O F B A K I N G$, because, first, it is sold a reasonable price, and second, its double acting qualities absolutely as-
sure perfect baking at all times. Alsure perfect baking at all times. Al-
ways follow the directions on the label, you use less powder.
Buying Egg-O in the larger tins is most
Egg-0 Baking Powder Co. Limited
Hamilton, Canada

Boys and Girls

virnvinion

## Our School Department.

## Standard Varieties of

 Vegetables. hundreds of school gardens in the Pro vince, and the following list of vegetable varieties is given to include those recog. nd as standard varieties by com also is a list of the different vegetables with the amount of seed or the number plants necessary for a row 100 feet in ength.Artichoke: Red or white Asparagus: Palmet
ossal, Reading Giant.
Beans: Wax - Golden Wax Davis White Wax. Green-Valentinc, Refugee Beets: Flat Egyptian, Detroit Dark Red.
Broce
Brussels Sprouts: Dalkeith
Cabbage: Early-Jersey Wakefield, Copenhagen Market. Main Crop-Glory Savoy-Chester Savoy, Green Globe Cauliflower: Erfurt, Snowball.
Celeriac: Large Smooth Pragu Celery: Early-Paris Golden, White Iume- Wrizer-Winter Queen. RedChives: Common

## Citron: Colorado Preserving

 Barn: Early-White Cory, Golden Cucumber: White Spine, Improved Ong Green, Chicago Pickling.Dandelion: Improved Cabbaging Egg Plant: Black Beauty, New York

Endive: Moss Curled.
Horse Radish: Bohemia
Kale: Dwarf Scotch.
Lettuce: Grand Rapids, Nonpariel, Big Muskmelon:Paul Rose, Osage, Burrell's

Mustard: English White
Onion: Seed-Southport Yellow Globe
outhport Red Globe, Danver's Yellow Southport Red Globe, Danver's Yellow
lobe, Red Wethersfield. PicklingIver Skin, Barletta. Green-Whit aker.

Peas: Early-Gradus, Sutton's Excel
ior, American Wonder, Thomas Laxton ate-Stratagem. Peppers: Ruby King, Chinese Giant, Potatoes. Irish Cobbler, Early Ohio Pumpkin: Quaker Pie, Connecticut Radish: Ne Plus Ultra, Scarlet White Chinese, Round Black Spanish Rhubarb: Victoria, Linneaus.
Salsify: Mammoth Sandwich Island. quash: Green Hubbard Geaf Summer bard, Boston Marrow, Vegetable Marrow
$\qquad$
$\qquad$ Pink-Byron Pink Mor, Red Canne
$\qquad$
$\qquad$
$\qquad$
$\square$
ounce; cauliflower, 1 ounce; celery, $1 / 4$ Silage Crops,"' which appeared in the

$\qquad$
$\qquad$
ounce; We hope you did not miss the Spray
2 ounce; Calendar in the issue of April 1. This school. It will guide you in caring for the school garden or home plots.

Factors in Education. what the Ontario Federation of Home a School Associations conside or Home and factors in education. Ree important qualifications for trusteeship they erng the the following line of thought: The Trustees.- Men and women p trusteeship; equipped as educational ers and not mere followers of pult opinion, anxious to provide equal edu all the people. and girl, during their give every b after they complete theen-age ye school course, a high school education terms of their life needs; free from id of false economy; seeing the possibilit of the school as an agency for keep. school, through evening commanity school, through evening classes, lecturs, viding all necessary equipment facilities and encouragement so that the teacher may do the best positble muth arranging for regular health inspection af the pupils, so that children mive derie. the greatest possible benefif from their
opportunities.
The Inspector.-An educational leader as well as an inspector; a man or moman of force and vision; practically acouninted with the progress of education in othrer provinces and countries; helofal 10 ) teachers; inspiring to pupils, and stimulating to trustee boards and communties equipped to organize the prograsir forces of his district for constructue au-

The Department of Education,- Ea . couraging, through progressive legislation the democratic development of loal enthusiasm, initiative and pride: providing the leadership that will stir communities to self-directed progress; sup. porting liberally, especially in the less prosperous districts, local effort to provide better schools or to initiace new, twe the Province may be equally well served in education; outlining courses of study that will be elastic enough to permit of wholesome freedom; arranging for terrbooks through which pupils and teachers nay receive the most help and greace large to organizing to school in nifit schools, reading clubs, debating socicties, xtension courses, etc.

The Home and School Association ordinating and encouraging all the above agencies.

If you find plants or insects that are strangers to you, take them to your eacher and learn all about them. sould nor, however, expecte are many problems in nature that puzzle even the most learned professors and highly* educated people are learning naw inious. all the time. Life is one contind deal chool and there is always a great will that we never learn. Your things about animals, plants and insects-work to gether!

If a corn-tester has not yet been constructed and used in the school, the torke. In connection with your corn studn Silage Crops," which appeared issue of April 1, page 61
quart;
10 lbs ;



## Farm Housework and Goodyear Belts

JUST as indispensable to the household power as to the efficient operation of the great tractors and threshing outfits in the field is the belt that transmits the energy of the stationary engine to the new timesaving and labor-saving machines used by the farmer's wife. Made of the same stock, and with the same care, as the big free-swinging Goodyear Extra Power on the thresher, the Goodyear Extra Power Belt on the churn, or the washing machine, or the lighting plant, reveals the same qualities of economy.

A Goodyear Belt needs no breaking in. Whatever the service in which it is employed it goes straight to work. It requires no belt dressing. Cold and damp do not affect it, for a Goodyear Extra Power Belt is waterproof. Flexible and friction surfaced, it holds the pulleys at high speeds or low, on light drives or heavy, with the same sure grip and full delivery of power.
Noting its reliable work, day in and day out, many a farm wife recognizes the truth in her husband's remark that a Goodyear Exira Power Belt is "the best help on the farm" The housewife, as well as the farmer, finds much of value and interest in the Goodyear Farm Book. A letter to the Goodyear Tire \& Rubber Co. of Canada, Limited, Toronto, Ont., will bring a copy.


[^0]:    and the Sheep Barn on the Industrial Farm, Fort William.
    The Shropshire Flock and the Sheep Barn on the Industrial Farm, Fort William.

