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The Globe does not assume the rôle of a Farm Journal. It is first and foremost a Great Family News paper, appealing to every class in the community.

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# The Farmer's Advocate and PERSEVERE SUCCEED Home Magazine 

## EDITORIAL

Winter is just around the corner; be ready
Do not leave the cattle out too late and lose the summer gains.

It is significant that certain of the old political parties desire a change of name

Judging by the way the Senate wrestled with the Prohibition measure and passed it in quick order there is some life in the Upper House yet.

Colds and catarrh in fowls is very common at this season of the year, and should be prevented by pro ding against drafts and keeping the house dry

The Horticultural Show held in Toronto last week should mark the beginning of a new era in fruit growing which has been more or less dormant in Ontario for the last five years.

When politics is discussed in the home by both parents, who are entitled to vote, the youth of this country ought to grow up with a clear understanding of what voting means

Many level-headed farmers are picking up young sows with the intention of having them farrow nex autumn. A good harvest in 1920 is all that is needed to reveal a hog shortage

The Health of Animals Branch has provided the machinery for the maintenance of tuberculous-free accredited herds, and the regulations ought to be thoroughly understood by all stockmen.

The coming U. F. O. Convention promises to be a rousing one, and the people of Toronto will soon begin to realize the importance of agriculture when they find the Parliament Buildings and Massey Hall in the possession of farmers.

Dairymen should understand the methods whereby the National Dairy Council is to be financed. Producers are only asked for a paltry amount, but the aggregate will make it possible for the organization to do a great deal of good for the industry

The Board of Commerce was appointed in response to the demand of the public for a reduction in the cost of living. The Government, knowing that it was being blamed by the fickle public for the high cost of living appointed the Board of Commerce, stood safely behind it, and said to the people of Canada: "Here is ou instrument for reducing the high cost of living. It is now working, and your troubles are practically at an
end. Don't say that we haven't done our best to curb the profiteer."
It is all a silly game. The Board of Commerce we suppose, will do some good. It will use its authority here and there, and it will tend to restrain the profitee a little. But the Board is not prosecuting the profiteers nor does it intend to do anything of the kind. It is investigating the conduct of industries, it is finding ample evidences of profiteering every day, but it merely shoves its findings into the pages of the daily press. public believe that the Government is really doing wonders to reduce the cost of living. It seems that modern Governments are able to mold public opinion that working through the daily press. It seems, too political buit.

## National Thrift.

Now that Canada's 1919 Victory Loan has been successfully secured, the Canadian people have made themselves liable for the principal and interest of national debt surpassing $\$ 2,000,000,000$. This means about $\$ 250$ for every man, woman and child in the Dominion, and it is now necessary that every able bodied person in the Dominion turn the full force of their joint endeavors to repay this somewhat staggering obligation. It is true that all the natural, financial and moral resources of Canada are behind the Government's promise to pay, but the Government would be power less to avoid the peril of extravagance on the part of the people.

It is all right enough to say that the Canadian people have increased their cash balances in banks and post offices by $\$ 650,000,000$ during the past five years, and that our trade as a country has reached the surThe fact rent wo and a half billion dollars annually we have only $\$ 2,000$ in natural resources with which to pay it and keep on working as a nation. But the Canadian people owe roughly another billion dollars that must be met by provincial and municipl tavation and with the futher inevitable expenditue that accompany addional sow that evident the greatest need for national and individ thrift Tedividuat thit is the keynte of nationt saving and withou it the liquidation of our thee billion' dollar debt imposibilit. The is the billion dollar debl is an spossty while it is going alway pay our debts under the most diffcult gong, and to It is onsy to It is easy to go into debt when prices are high and when our incomes are at migh water. It would be ar better to get out or debl his. hard times come, as many thimking men believe the must, we will have a smaller load to carry, and so car bear it easier.
Let us institute among ourselves a campaign for individual thrift. Let us not spend that dollar unles, we can get full value for it. Let us take care of our working capital, save where we did not save before and where perhaps we need not save to pay our personal obligations. Each of us now is liable for a share of big national obligation that will require our very best endeavors. Collectively and in co-operation with each other we can keep Canada's face to the front and wipe out this heavy burden.
Profigate Governments would render abortive any effort on the part of the people to retrench and discharge these obligations. Economy, so far as it is consistent with efficient administration, must be practiced devoutly and any endeavor to maintain the present artificia perhaps suddenly, to national bankruptcy and despair The people have shown themselves willing to lend wow all Governments, with particular emphasis on the Federal Administration, must set the example of thrit and cocter essential to the future prosperity of Canada.

## Why Not Start a Flock?

Anyone who has had in mind laying the foundation for a flock of sheep will, perhaps, wait a long time for more favorable conditions under which to begin. Ewes of all ages are now selling far below their actual value and the same is still more true of rams. Flockmaster are surprised at the lack of interest in sheep since flocks have yielded such a handsome return during the last lew years. The demand for ranch rams is, no doubt being affected by the production of breeding stock on the range or in neighboring provinces and states. How ever, this is a matter that affects the pure-bred breede more than the average producer or The industry, as it concerns farmers with commercial
flocks, is sound, and there is no just reason onit the quietness of the market for good female breeding stuff now prevailing.

Owing to the feeling that sheep require additional fencing and that dogs may become a nuisance, there is no danger of the sheep industry being over patronized, and a beginner need have no fear of a serious glut on the market due to over-production. In this regard sheep art one of the safest branches of live stock to keep on the farm. Many are going light on himotifusf at present because they are a grain proposition; but sheep will do well on hay and roots with a little grain added at and around lambing time. A flock is riot a serious menace to the grain bin, and they are a valuable asset to any farm. Anyone considering a start or wishing to enlarge on present holdings ought to take advantage of the situation now existing and lay the foundation for a high-grade flock.

## Something Better Than Resolutions

The time has come when farmers will be obliged to pass fewer resolutions; a substitute has been found. The agriculturist has accomplished little by memorializing the powers that be, and another method has been sought and discovered.
The resolution idea is a by-product of so-called democracy. In a thoroughly democrattc organization, every man has his say, and under these circumstances a luxuriant crop of theorites is produced. Such individuals have a passion for framing imperative resotions. They "whereas" and "therefore be it resolved" till the welkins ring, ahd sensible folk, because they must be democratic, are forced to listen to their strident demands.

The resolution idea is productive of good results in direct ratio to the calibre of those who father resolutions. A resolution in itself means nothing. If fathered by an incompetent, high-strung individual, it will cause only a slight ripple on the surface of public opinion. If it is the crystallized conviction of a sane, progressive and insistent individual, it will łesult in contributing something to society

But "it's an ill wind that blows nobody good." The resolution idea has its compensating aspects, Just as erupting volcanoes are said to be the safety valves of which world, so a bristling resolution is the safety valve with prevents a lot of excitable folk from butions There will be less need, hop resolutions, and the fear is that this inspiring accomplishment may become a lost art.

## Political Prophesy.

There was a time, we are told, when prophets could ook into the future and discern, with some measure of accuracy, the probable turn of events. Prophesy is now a lost art, particularly when it has to do with elections, and the cleverest of politicians give up in abandonment because old axioms are no longer reliable, and they are without any known quantities upon which to base their deductions. Political equations were easy of solution in days gone by, for a certain amount of tradition plus a known quantity of campaign funds in a constituency equalled so many party votes, which meart a certain result. With tradition swept aside and men and women going to the polls determined to express their wishes without regard for political leanings or the promises of any party, there is only one way to be sure of the results, and that is to open the box and count the ballots. We have only met one man who actually knew what was going to happen in the recent Ontario elections, and his declaration was made subsequent to elertin a new era is October 20, after the returns incident to elections will, no doubt, be duplicated in the conduct of future govern-

## The Farmer's Advocate and Home Magazine.

ICULTURA DOMINION

## Puntehed weetsy by THIE WILLIAM WELD COM <br> JOHN WELD, Manager

## Asents for "The Farmer's Advocate end Home Journal,"

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ments in this country. When some politicians a wakened on the morning of October 21 and ascertained for certain nightmare or a dream, they at once predicted not Governmentcould not be formed from the heterogeneous representation from the various ridings of Ontario some are now predicting that the Farmer-Labor Coalition unstable. Without venturing a predict to custom and it is plainly evident that modern prophets are not taking public sentiment into consideration or ap preciating the fact that the people of this Province are
anxious for good government it, and will deal harshly with regardless of who forms take measures to obstruct it. Whatever happens it is plain that the text books on political prophesy it is be revised, and the art practiced in accordance with the modern freedom of thought and action.

## Nature's Diary.

A. B. Klugh, M. A.
Fox-FARMing (Concluded)

The kennel is usually placed in the centre of the pen,
and the type most in vogue is a wooden structure
consisting of two compartments. consisting of two compartments. It is usually placed cannot burrow under it and hide. The outer compar ment of the kennel is about 3 feet square, and has sloping down from the building to within a inches, and of the ground. The inner compartment is few inches double walls, and the space between them is filled with some non-conducting material such as the ground with in which Malaga grapes are packed, sawdust, chaff, or
dry leaves. The inner chamber is usually square by 20 inches in height or 16 inches by 20 inches by
20 inches high, as it must be large enour against over-crowding by the growing family to provide enough to be warmed by the body heat of the animall
A bedding of dry leaves, grass or in the inner compartment. depends to a very large extent upon the character failure person who handles them, and this is particularly true mesticated and are nervous in temperament. The
keeper must move cautiously and pens at all times, and should, particularly in the breedas to avoid the exciting influence of unusual possible, so
smells. Many fox ranches have a tall tower from pens and thus keep watch on keeper can overlook th seen. Many female foxes are prone to become unduly excited when they have young pups and carry them about rom place to place, thus sometimes causing the death armers place arm exposure. In such cases some fox ract the attention of the mother.
Foxes mate when ten
found to mate when ten months old and have been of age. But one litter per year is produced and the time of birth is from the middle of March to the end of
May. May.
There is great diversity in methods of feeding among to attribute-their sucesss mainly to special methods of feeding. The fact, however, that foxes are kept in perfect condition on various ranches whese quite differ ent methods are practiced shows that no one prescribed
diet is essential for success The articles of
foxes on different ranches are horse meat menu of scraps, fresh fish, salt fish, rabbits, groundhogs, mice
chickens, biscuits chickens, bhiscuits, bread, vegetables, grass, porridge,
berries, apples, mill and egge berries, apples, milk and eggs.

The flesh diet is usually fed raw, though some breeders par-boil i. Sometimes carcasses are salted down day or so when required for use while at ing water for a old cattle and horsequared for use, while at some ranches as required. The amount of meat fed should be about a quairter of a pound per day, and this amount should be decreased if any of it is buried.
Some fox-farmers use patent dog-biscuits almost
exclusively, others feed a good deal of tack," while with others bread with dripping on it is is of the standard diets.
Cleanliness eeding, and the dishes of the essentials in successfu frequently. The water vessel should be fastened to the fence with wire hooks so that the foxes cannot climb
over it.

Bone and lime-water are fed to the young foxe to supply the salts for bone-formation. Broken and the danger incident upon their being swallowed. When the foxes are less than a year rowed. ed about as much as they will eat, but when they be older too full a diet may render them too fat for good
breeding condition. Particular care is
mother prior to the birth eggs, meat broth, bone broth, and well-cooked oatmeal are freely employed at this time, while similar nourish-
ing diet is given while she is ing diet is given while she is nursing
are intelligently cared for they are healthy in confine ment. When the pups are shedding their milk teeth, is sometimes at the base of the canine teeth. Givmation of absesses bones to gnaw, and thus promoting the loosening and
dropping of these teeth has been found to obviate this
trouble.

## Advice to the New Government

Some time last spring, I think it was, I heard the first talk o' organizin' a branch o' the United Farmers of to be livin' this corner o the country that II happen grandfather's ticke he woods, ye see, an' the conductor put him ant train. If he'd had mair money when he left the Scotland, a hundred years back, I might noo be faul up in Oxford or Middlesex counties wi' the rest aristocracy, or maybe moved intae toon an' payin' an income tax.
Be that as it may the fact remains that I'm here in had to sweep don fre the o' education an' civilization duties an' opportunities. I mind when
their day in the Province o' Ontario an' Lockie Wilson was puttin' on his armor to fight the battles o' the doonup around these parts until the "Patrons" had ever showed formed in every school-section between here an' Lake
Huron. And it was the same wi' the call it. (A chap has to be weel up in his letters these
days, wi' their U. F. O. and their G. W. V A the rest o, say naething o' what they hae done wi' and aroond to us some oo'.) But when they finally got matter over were in a half notion o' not takin' onything in oor district an' when the chap wi' the paper meeting me for my name II says to him. "Look here nom' to
friend," says I. "Puttin' the 'GGange' o' Industry' an' a few Farmer's an' Breeder' ${ }^{\text {Patrons }}$ , these organizations. And where juist aboot Clubs Dead an' gone, ilka one o' them. Died a natural noo? easy an' by stages, juist like that. Sae what's the th
ship signing yon document an' payin' oot my member Where's yer doctor's certificate gain' to anither funera latest bairn o' yours will live ony langer thin that thit o' them?" o' yours will live ony langer than the rent
$\qquad$ going to prevent our finally bringing one of these 'bat an as ye call them, to maturity. It's like of these 'baims,
ye have to learn by the mistakes o' ye have to learn by the mistakes o' the past. The fact that we failed once or twice is na proof that pre cann
succeed in the end. Did ye ever hear oo onything ain
being accomplished. being accomplished without its ups any doongs? An
especially its doons. Pit yer name dons says he, "an dinna get discouraged doon, Sady, gettin' to the top o' the pile." my auld age. I ken that the only way a quitter in
potatoes is to keep scractchin, añ' that those that the potatoes is to keep scractchin,' an' that those that get mair. Gie us yer pen.
That's the way 1 am
That's the way I am; easy like. But I ken I wouldna' hae felt right gin I had done onything else. I It's up to
us to keep pushin' while there's ony push left in us to keep pushin' while there's ony push left in us, It
guess.
And, as things hae turned oot, I canna say I hae much top o' the hill was nearer than we noo as though the even have to rin the Government machinery. We I've always found the way o' apprenticeship. learn all about a gasoline engine for an' best way to start her up an' get acquainged for instance, was to daein' yer work. Na doot it will har while she wis way wi' oor new legislators. Gin they want oot the same whate
right I'm no much afraid for right I'm no much afraid for onything else to dae what' but they'tl get 'o's o' advice, onyway, I hae halif a
notion to be handin' oot some mysel?. I aften tell the auld some mysel
never made mair $0^{\prime}$ a success in that the reason the
never took ony $0^{\prime}$ never took ony $0^{\prime}$ my advice. But she says she tore she once, that time I advised her not to wait for the ither fellow, and that was enough for her. Which is no
much in the way $o^{\prime}$ encourage be givin' hints to the "Farmers." for me to start in to
if I nut there's one thing that I'd like to say to them, Good Reads anither. An' that is, don't go back on the effect that the United Farme heard a few hints to the aboot spending saed Farmers were not too enthusiasti great highway frae east to west cash on the proposec necting up the big cities alang the line; an' maybe they're proving the it hard to turn doon ony scheme forim begin or end. But no matter where it is planned to spending for what ye might call much money to be motor road when we already hae the trans-provincia say that ye have to build the main line before yome it is o' the King's. But that is truer o' a railroad than once an' a chap who lived mind o' bein pathmaster for me for putting all the work on the main road was going the good o that main road to me if I canrad. What says he. And there's something in it at to it, be o' muckle bene frae end to end o' the Province wouldn't it was in the way ${ }^{\prime}$ ' o' getting us to build roads to. It might be the means
for those thect wi' it. That's for those that ken to say.
But what I'm
But what I'm drivin' at is this. Let us gie the Government to understand that we want improved roads all over the province as soon as it is possible for the axles in what is supposed to be a civilized up tae is played oot. We want every main road and sounte road and end road put in such shape that a chap can call them money, I ken thatizin to his conscience. It will cost as guid as a first. But it's a guid investment. Juist to say onything mortgage at six per cent. And no ${ }^{\circ}$ nature. It's an unco' thing the way some men will be expressin' their feelings when they happen to get on an axle or something like they hae a blow-out or break The thing is, there ise that.
us farmers, which is a'richt in its place economize among money a time, been carried too fare, Aut which has,
afeard of is that oor what $\mathrm{I} / \mathrm{m}$ working for a surplus in thing Government may get to Good Roads movement will Treasury sae hard that the the time being.
When the boys we hae sent up strolling aroond through Queen's Park or the cet.to they may forget all the paved roads they hae there on the back concsiot us stick-in-the-muds away oot we're lookin' for better than that from them, for_a year
or twa onyway. I'll say the or twa onyway. I'll say that much.

Another milestone has been passed and Canadian same spirit that they are ready to finish the job in the and now le eoan has been a success that the movery citizen make it his business to se

Live stock is the foundation of all agricultura prosperity, and over a term of years the returns from permanent policy of comparatively good. A steady permanent policy of production will net farmers more
in the end than an "in

## THE HORSE.

## Feeding Horses Grain and Rough-

 age of Poor Quality.- On account of the high price of hay, even that of only fair quatity, there wil be a great tendency on the
part of the stock owner to feed his idle or partly-idle
horses on that of poor quality and straw in order to horses on that of poor quality and straw in order to
be able to market the hay. Hence, it may not be conbe able to market the hay. Hence, it may not be con-
sidered out of place to give a word of warning and make a few suggestions re the feeding problems that may confront the owner
The feeding of large quantities of roughage of poor
quality to horses is dangerous. Feed that can be conquality to horses is dangerous. Feed that can be consumed in large quantities with practical impunity by
catte, may cause serious trouble if given even in limited cattle, may cause serious This doubtless is largely due to quane comparatively small size of the stomach of the horse. The feeding of hay that is over-ripe, dusty or musty,
in considerable quantities, is very liable to cause digestive in considerable quantities, is very liable to cause digestive
or respiratory diseases, or both. Some may ask, "How can the quality of the feed affect the respiratory organs? understand that the stomach and lungs receive their nerve supply largely from the same pair of cranial
nerves, we can more readily appreciate the fact that nhen, from any cause there is an often repeated or continuous irritation to the one, there is a strong liability Most horsemen know that the continued feeding of dusty or musty hay to horses, or an unlimited amount of
hay of better quality to a greedy horse, is often followed tay or better qualty of a grecay horse, is often foilowe by heaves. Some of us may remember that the haying
and harvest seasons of 1912 and 1915 were very wet. and as a consequence a great deal of feed was poor quality. During the fall and winter foallowing
these seasons the practicing veterinarians were kept these seasons the practicing veterinarians were kept
more than ordinarily busy. We have, on many occ
naking sudden changes in feed warned readers agains making sudden changes in feed, especially to horses
and we wish to repeat the warning. The time will soon arrive when many horses that have been at regular work for several months will commence a period of
semi or complete idleness, and there will be a tendency to change the roughage from hay to straw or liay of poo quaity' Where this change is made suddenly a con-
siderable percentage of the horses usually show signs of digestive derangement in from one to two weeks. Where the change is gradually made, by feeding less hay and a little straw at first and gradually increasing
the amount of straw and reducing the amount of hay ach day until in x or 10 days a full ration of straw cai be given, we find that sickness seldom occcurs
When either hay or straw that is being fed is eithe usty or musty, means should be taken as far as possible, to avoid evil results. This can be done to a greater to remove all loose dust, and then dampening with lime water before feeding. Where large numbers of horses are being fed this may.appear to be too much rouble, but we must remember that the loss of a horse of the more or less serious impairment of one or more order to avoid such would have been. Lime water $i$ made by slacking a lump of quick lime in a vessel horoughly, then allowing it to stand, when the unwater on top is "lll settle at the bottom and the clea water on top is "lime-water." It is simply a saturated
solution of lime in water, i. e,, all the lime that the wate will hold in solution. It cannot be made too strong as the undissolved lime precipitates. A lump of lime twice the size of a man's fist is sufficient to make a
barrel of lime-water. It will remain pure for a long time, bence may be made in large quantitities and lept ready for use in a place where it will not freeze. Lime-wate
should be used on all roughage that is of the nature unde Giscuin. of poor quality also can be rendered less
Grain
dangerous by treating with lime-water, but it is still dangerous by treating with lime-water, but it is still with boiling water a few hours before feeding. In order to winter idle horses cheaply there will be a great tendency to feed silage. Silage of good quality
fed to horses in reasonable quantities, mixed with cut hay or straw or with chaff, gives excellent results, it may be safe for hasize the ract that in order tha quality. Silage that has not been properly made or has been frozen, or the surface of which has been exposed
for considerable time, tends to mold quickly. Any feed that contains mold and feed or water that contains hay or straw anal or vegetala, water containing decaying animal or vegetable matter, etc., if fed to horses in even small quantities for any considerable length of time, will probably, cause a
disease known as "Cerebro-spinal-meningitis." Dusty or dirty feed will not cause this. It is no doubt due to a germ that exists in mold or decaying matters. It is a disease peculiar to equines. No successful treatment
has been discovered for a well-established case. Some las been discovered for a will-established case. Some
cases yield to treatment if given in the very early stages, but a very large percentage of cases end fatally. In rare cases the disease appears suddently and the patient develop slowly and the patient lives for a few days after the first symptoms, which are usually an inabilitity to swallow. When attempting to drink the animal
apparently performs the normal acts, he keeps his lips
in the

THE FARMER'S ADVOCATE
drinking, but the water does not disappear, nor is he
able to quench his thirst. If the water be in a pail is not becoming vessel, it will be noticed that the quantity
or is not becoming less, though he appears to be drinking
heartily. He will masticate his hay or other feed ing a normal manner, and make regular and apparently normal but ineffectual efforts to swallow. The mast cated feed will be either quidded or impacted betwee the molar teeth and cheeks. He cannot swallow of general paralysis appear, he lies or falls down and probably is unabable to trise, delirium ensues, and in from $\frac{1}{1}$ to 3 days, after the alarming symptoms appear he
When a case of this nature is observed, the cause must be sought for and removed. If due to the wate
and pure water cannot be thoroubly cannot be procured, that used mus must be ceased. All horses that have beonsumptio the same conditions should be given brisk purgatives 40 to 60 by 4 to 6 drams of hyposulphite of soda, or daily, and, of course given wer diated, three time daily, and, of course, given feed and water of good

The Horse an Efficient Power Plant cient power is -next to man himself-the most ${ }^{\circ}$ effimotive energy in proportion, deivering more effective any other type of motive power unit, when the wor done as a self-reproducing, self-repairing organism,
taken into account. Millions of harses from the time they were 3 till they were 12 year without the expenditure of a dollar for repairs; and thi ing the fficiency must be taken into account in reckoils longest and with least expense for repairs has an ar preciable advantage. From the economic standpoint therefore, the horse requires a minimum of human labo in his production, and has the merit of long life and low tion in any enterprise in which powier in the froduc horses may be used.

Wherever power is needed to move loads over


Some Light Horses on Pasture in Oxford County
fietds or roads, emergencies arise where the power
required to move the load becomes three or four times normal. Horses excel in such emergencies, for they can in a pinch, exert al tractive pull equal to more than pull an overload of $300 \%$ to $400 \%$. In this the horse s unequalled, for no other type of motive power can handle more than a $100 \%$ overload, This capacity to sustain an overload is of incalculable value in field work especially in the spring season, when fields may be in perfect condition for work, save for occasional irregu-
arly distributed soft spots. Horses go through these with ease, because of their reserve power, and this gives a reliability possessed by no other power unit used in field work. In city work, also, particularly on cobble
stone paving, a pair of big drafters can handle an 8-tor stone paving, a pair of big dratters can handle an 8-ton
load on a 2-ton truck solely because of the overload capacity they possess, which enables them to start the load, 10 tons in all, which, once started, can be drawn without difficulty. This ability to exert 3 or 4 times
the pull usually required is therefore a distinct economic the pull usual
The great flexibility of power in horses is especially valuable on the farm. One eight-horse team on a
aluble disc with a harrow behind, may later be broke into two four-horse teams for seeding or into one pair for planting and a four for harrowng, and an extra pair for general work, or a detce later into four separate teams for cultivating. No other source of power in
actual use on the farm has this flexibility; ${ }^{\text {and }}$ and the same applies to hauling for, when six-horse teams are needed on heavy loads, they can be used readily, but can be broken into three teams and put on three separate jobs when necessity requires.-Wayne Dinsmo
Secretary Percheron Society of America.
arrival of this load, a few lots had sold for $\$ 13.75$ per hundred, but in the main the run of lambs was goin long story short, Mr. Wallace topped the To make ong story short, Mr. Wallace topped the market with nis load, because each one was. properly docked and cas
trated. They were sold for $\$ 1.25$ per hundred pound hundred than the poun price for that tay. The pambs averaged 82 pounds in in
weight.were well fitted, and it was claimed hy the weight,-were well fitted, and it was claimed by the
sheep buyers on the Stock Yards that it was the fire sheep buyers on the Stock Yards that it was the first
carload of lambs arriving at the Yards this year that did not contain a percentage of ram lambs.
ram lambs.
T. Hetheringon.

## Tuberculoets.

Figures are not available to enable one to reckon T. B. as the disease is commonly called. Nor is the annual loss to the live stock industry, from this scourge known. However, it is a fact that the loss is enormoles
and that the disease is to be found in most and that the disease is to be found in most unsuuspecting
places. The germs are by no means confined to poily liaces. The germs are by no means confined to poorly Registered animals are as susceptible to the plague a Fre grades, and the loss is heavier with the fromer. From a physical examination alone it is impossible to definitely detect the presence of the disease, unles
symptoms are very marked as in the last stages of the trouble, consequently affected animals may remain fo years in a herd, spreading the deadly germs without the owner becoming aware or the fact. The most definite way of detecting the trouble is to apply the tuberculin
test. Many breederg teest their herds and elimin test. Many breeders test their herds and eliminate
reacters so as to avoid danger of spreading the trouble
to the remainder of the herd. While the test is fairl not react. This is the weak point, but it animal does known method of detecting the disease and, if properly
made, few diseased animal made, few diseased animals will escape detection.
If we are to develon an animals it is essential that a close tab be in breeding health of our animals. American breeders require that our cattle going into their country pass a sixtyand retest. If the animal has not been tampered with, assured that an animal passing this test is a breeder is iderable trade has been carried on between. Conand Western breeders. But if this is to be ditario the animals must have a clean bill of health. It has Western Provinces have not stock imported into the should have been. If there is a particlealthy as they that everything is not right some of our best suspicion for pure-bred stock will be lost. But, from a breeders standpoint, one cannot afford to harbor tubercular The treacherous of the disease is that an animal may be thrifty and look all right, yet be a spreader of the germs.
Such an individual in the herd is a dangerous one to retain. It will be noticed that at some sales of highare sold subject to retest are sold subject to retest. building up a clean herd can afford to pay more for stock that has passed the test than for doubtful
propositions. Many propositions. Many regularly, and are able to cater to the big trade. It requires the concerted effort of all breeders to
reduce this disease to the minimum. Insease to of abating at the present time, it is spreading of the best means at the trouble in our herds. There is some com
plaint of unscrupulous breeders not using the test justly Animals have been suspected of being "plugged" $\rho$ r
treated so that they will not react within a certain
time. sixty-day retest. Honesty in the test is needed on a Imported stock frequently reacts. It is well known that tuberculosis is more prevalent in the herds of England than on this side of the water, but the breeders apparently do not take it as seriously. The climate diseased animal cones from, nor how valuable it the menace to our cattle industry if it carries the germs af tuberculosis or other infectious disease. Herds have been dispersed, because of the ravages of this trouble, he owners suffering heavy loss from richly-bred animals the first loss than to run the risk of spreading the germ. A stable cattle industry requires healthy stock. ur climate is as rigorous and healthy as any. What is needed is the distruction of germ-spreading animals
so that the danger of our healthy so that the danger of our healthy stock becoming into be infected to an innocent unsuspicious breeder who is probably just starting into pure-breds is a crime worthy of severe punishment. Honesty is a good policy A clean herd should be the aim of every breeder of industry.

Toronto is to get the big Naticnal Winter Show, but the location does not alone insure success. The stockmen must get behind it in a body


Typey Hereford Cow and Her Calf
weaning, and if they survive the winter are most un A low straw
and warm. It should, if properly constructed, is dry for the sow and litter, sufficient space for the ling place to take exercise, and the approach should be from the uth so that the cold winds are shut out. The spring litter, as soon as it leaves.
about in the earth, eating worms, bugs and nest, roots sow may be fed litter, and no matter how carefully the natural. To overcome this, a core more or less unif they have been previously a couple of sods dailygreat interest to the youngsters. Sliced roots, cabbage thing green may be scattered peelings and, in fact, any floor. Aside from the food and corrective value the green feeds, they help to make the pigs take value of even if they do not eat them, they will spend ase, as weeks old little about among them. When two to three weeks old, little pigs usually begin to eat food, and some separate from the sow. Gradually add in a creep
oat chop and shorts. Fall litters should not be weaned as early as spring litters, in order that they may be stronger and more acnot be too old. If the pigs are vigorous at weaning should be experienced. When weaned serious difficulty change need be made in the ration to eating and little

## Is the Fall Litter Profitable.

 Man The Farmer's Advocate"Many think that the fall litter is not profitable and that it is better policy to raise and fatten one litter a year. The advisability of raising the fall litter depends largely on the time litters are born, equipment and feeds available. Fall litters should not arrive later than small pigs ample chance to exercise outside gives the can be well weaned before the real cold weather sets in. Litters that are born later must be provided with dry hand with quarters, as cold and dampness go hand in pen, huddle together and do not exercised in a cold tends to coughing and rheumatism, with the result that at six weeks, instead of shiny-coated, full-blooded pigs that scamper here and there about the pen you have anaemic pigs, lacking in vitality that have to be stirred out of their nests. Such pigs usually get worse after

it sufficiently to meet their requirements. Skim-mill is of prime importance for the fall litter and succes
cannot be expected if it is dispensed with. Add suffien sifted oat chop and shorts to make a thin slop well weaned barley chop may be added added and when shorts. The feed should always be to the oats and fact, better results are obtained by warming all feed for pigs during the winter. Feed only what the feed for clean up readily. Salt should be fed regularly. The or fed a handful in the be placed in a box in the pent or
lbs. common salt, 1 lb . sulphur, ${ }^{2}$ lbse. powdered wood 6 or 8 pigs: 50
charcoal, 10 lls . charcoal, 10 lbs. slacked lime.
his finished pork will cost him more than expect that during the summer because he cannot than pork reared feeds to the same advantage. On the other haind as it is ready for market whet a higher price for his pork are being offered. Brood sows are also morer of hogs regular breeders if raising two litters a year. Con sequently, the man who is properly equipped, grows
most of his own feed and is a good feeder should produce most of his own feed and is a good feeder should produce
winter pork at a good profit.
A. A. McMillan

Maintenance of Accredited Herds. Both in Canada and United States an effort is being
made to eradicate tuberculosis from the herds. What tif made to eradicate tuberculosis from the herds. What is both countries under the supervision of the Health of Animals Branch of the Department of Agriculture. of herds have been entered United States a large number doubtedly it will be popular in Car this scheme and unbe. The following regulations for the establishment and maintenance of tuberculosis-free accredited herds. of cattle sent out by F. Torrance, Veterinary Ditrctor1. A tuberculosis-free anplanatory.
is one which has been tuberculin tested pure-bred herd cutaneous method, or any other test approved by the Veterinary Directory General, and applied by the regularly employed veterinary inspectors of the Health of culture. Further, it shall Federal Department of Agriculture. Further, it shall be a herd in which no animal annual or three semi-annual tuberculin tests upon two described, and by physical exal tuberculin tests, as above 2. The entire herd, or any cattle in the herd, shal be tuberculin tested or retested at such time as is considered necessary by the Veterinary Director General. test which have been injected with tuberculin within 60 days immediately preceding or which have at any time 4. No herd shall be classed as an accredited hend in which tuberculosis has been found by the applicain which tuberculosis has been found by the applica-
tion of the test, as referred to in paragraph 1 , until such
herd has tion of the test, as referred to in paragraph 1, until such test with tuberculin, applied at intervals of not less than six months, the first interval dating from the time of removal of the tuberculous animals from the herd.
5. Prior to each tuberculin tast of the identity of the registered animal shall be presented to the inspector. Any grade cattle maintained in the herd or associated with animals of the herd, shall be identified by a tag or other markings satisfactory to the 6. All removals of registered cattle from the herd, either by sale, death or slaughter, shall be reported promptly to the said Veterinary, Director General, giving the identification of the animals, and, if sold, Ife name and address of the person to whom transferred.
If the transfer is made from the accredited herd to If the transfer is made from the accredited herd to
another accredited herd, the shipment shall be made only in properly cleaned and disinfected cars. No cattle shall passed a tuberculin test approved by the Veterinary
7. All milk and other dairy products fed to calves shali be that produced by an accredited herd, or, if from outside or unknown sources, it shall be pasteurized by
heating to not less than $150^{\circ} \mathrm{F}$. for not less than 20
8. All reasonable sanitary measures and other recommendations by the Federal authorities for the 9 . Cattle from an accredited herd may be shipped to the United States accompained by the certificate of the Veterinary Director General, without further tuberculin test for a period of one year, subject to the
rules and regulations of the State 10. Strict compliance with these methods and rul shall entitle the owner of tuberculosis-free herds to a certificate, "Tuberculosis-Free Accredited Herd," to be
issued by the issued by the Veterinary Director General. Said
certificate shall be good for one year from date of test certificate shall be good for one y
unless revoked at an earlier date.
11. Failure on the pat
the letter or spirit of these methods and rules shall be considered sufficient cause for immediate cancellation of 12. Whenever in by the Federal officials.
sary to slaughter an animal or animals for the eradication of tuberculosis from a herd, the animal or animals in Sections 6 and 7 of the Animal Contagious Diseases
Act.
Persons desiring to enroll their herds under these
regulations should a General, Ottawa, who will forward the official forms.

## Bricker's Shorthorn Sale

$\qquad$ day, November 6. There was a big crowd in attendarsit the sale, and the good things sold quicklend. The
highest-priced animal of the sale was Princess Pat highest-priced animal of the sale was Princess Pat, She is a heifer of show calibre and went to the $\$ 1,000$
bid of J.J. Elliout, Guelph. Missie's Marquis, the herd sire, a deep-fleshed, stylish individual, with, show-ring conformation, went to the bid of C. J. Stock, Tavistock,
for \$635. He is a Missie-bred bull, sired by Golden Marquis, and considering his quality he was a bargain at the price. In the sale were animals of such breeding Misd Buckingham, Clementina, Matchless and Lovely, and with these bidding was brisk ${ }^{\text {ata }}$ all times. The
thiity-one animals selling for over $\$ 100$ brought a total f 80,340 . There were only two or three youngsters which sold below.the $\$ 100$ mark. Following is a list of
he animals selling for $\$ 100$ and over, together with the names and addresses of the purchasers
together with the
Missie's Marquis, C. J. Stock, Tavistock $\qquad$
Elmira Mysie 2nd, Geo. Nesbitt, Palmerston.......
White Mysie, Wm. Stephenson \& Son, Science
Hill.
Roan Mysie, A. \& G. Forbes, West Montrose
Princess Pat, J. J. Eliort Guel Princess Pat, J. J. Elliott, Guelph
Waterloo Princess 39 th, Wm. Mcl

## ean, Ke

 Bull calf, Chas. Rutherford, Wallenstein. Mina Ramsden, W. B. Annett, Alvinston. Polly Buckingham, Wm. Swanson, RooHeifer calf, J. F. Husband, Rockwood. lementina Empress, Wm. Mclean
royal Jilt's Pride 2nd, W. B. Ann
fanny Claire B, J. J.'. Metrner, Seaforth
Matchless 12th, R. S. Robson \& Son
ady O'Argyle, A. \& G. Forbes.
ovely Erin 2nd, W. R. Elliott \& Son, Guelph May Beauty, V. Snider, Waterloo
Kirblevington 46th, Alex. Withers
iftcrest Mina, Wm. McLean
vuttercup 2nd, Ed. Scroggie, West Montros
utterfly Beatrice, Ed. Scroggie
hite Blossom, Milton Weber, West Montrose
Kaggie May 4th, C. J. Stock
Gimson Duke, Geo. Allandorf, Moorefield

Ontario Aberdeen-Angus Breeders Sale.
On Wednesday, November 12, the Angus breeders Guelph, at which they offered some of their best things to the public. The crowd was not large and bidding was not nearly so brisk as it might well have been considering
the quality of the offering. The top of the sale was Larkin's year-old heifer, Stumpie of Larkin Farm,
toth, the juin tional. She is a sweet thing, and wert to the
860 bid of G. C. Channon, of Oakwood. The Larkin arms consignment made considerably the highest average, it being \$400. Among the consignors were
J. D. Larkin, Lowe $\&$ Heibein, J. Bowman, G. C. Chan non, T. B. Broadfoot, Robt. McEwen, K. Quari)
and A. Cox. The following is a list of the anim
selling together with name Elm Park Bert, B. Becks, Manitoulin $\$ 200$ Elm Park Pat, J. G. Sharp, Terra Cotta.-. Tropan of Alloway 2nd, A. Cox, Bel
Balmedie LLad, T. S. Doyle, Guelph Elm Park Baron, D. R. Thomson, Iona Station. Zora of Alloway, J. A. McLeod, Plainville...
Balmedie Pride's Boy, W. J. Fasken, Elora.
Ral Balmedie Gamrie, J.A. McLeod, Coboura Lady Cheerful of Larkin Farm 2nd, W. J. Fasken.
Heather K. 2nd, Kenneth Ouarrie, Welwood Alloway Rose, Geo. Stoddard....

## Springfield Kindness, W. J. Fasken

Springfield Mayflow, $\dot{\text {, A. .W. Beattie, Blair..... }}$
Burnside Maid 4th, Sir Edmond Walker, Lefro
Burnside Maid 4th, Sir Edmond Walker, Lefro
Burnside Maid 8th, A. W. Edwards, Watford.
Middlebrook Pride 25th, Jno. Shield
Balmedie Pride 7 th, K. . . Carroch..... uarrie
Balmedio Pride tht, W. Fasken
Balmedi. Pride oth . . . Faske
Balmedic Pride 8th, W. J. Fasken
Balmene
Balmedie Pride 9th, C. K. Jarvis, Miton
Ride's Beauty, J. A. McAllist
Balmedie Pride's Beauty, J. A. McAllister,
Balmedi. Morlich, B, Becks.
Liza of Surn
Liza of Sur
Liza of Sinn Sy Acres, Lewis Beer, Arthur
Mayfower of Inces, Lnd, Lewis Beer
Mnerleithen 3rd W. H. .
Tartan Ma donna 4th, B. Becks.
Queen of Maple Bank, A. Barber, Guelph
Elm Park Beauty 5 th, Geo. Stoddtard
Elm Pa
Rose
Forest
Prest orm Fair Lady, L. Beer
Pride or Larkin Farm 4th, W. French, Elora
Sumpio of
Bravo's of Larkin Farm 4th, G. C. Channo

THE FARMER'S ADVOCATE
Live Stock Prices in Great Britain. sales in Scotland this. year reveeal an extraordinall 19 ss., or an average of 1,062 bulls have been sold for $£ 2224$,have realized $£ 26,411113 \mathrm{~s}$. 8 d . or $£ 2169 \mathrm{~s}$. 9 d . each; 48 two-year-old heifers have made $£ 10,2038 \mathrm{~s}$ s. or an average 34,328 6s., or $£ 213$ 4s. 4d. apiece; and 317 heifer calves have aggregated $£ 79,5303 \mathrm{~s}$ or or $£ 25017 \mathrm{~s}$. 7 d each. In
all, 1,710 head of Scots beef Shorthorns haver C 375,392 19as. 8 d , or an average of 6219 10s. returned ean be recalled that in 1890 some 1,153 head averaged 225 7s. 3 d .; in 1900 , 915 head realized $\ddagger 313 \mathrm{~s}$. 5 d . apiece; 1915 , the 1,401, disposed of were returned at $£ 5117 \mathrm{~s}$. 6 d . each; in 1916, 1,558 head made returned at $£ 551.15 \mathrm{~s}$. 9 d . each; in 1917, 1,472 fetched 6996 s . $7 \mathrm{~d} .$, and in 1918 the 1,651 sold realized $£ 13813 \mathrm{~s}$. each. Highest price for bulls
this year was the $£ 5,565$ paid for one of William Duthe's calves; two cows made 678710 s this year. De two year-old heifer also fetched a high price; one yearling
heifer realized $£ 1,102$ 10s.; one heifer calf made at J. Durno's sale, and another $£ 1,470$ at the Aberdeen October joint sale
Champion Shir
on October 25 , realized 1250 at Peterborough sale, for a son of Champion's Clansman, a rising young sire
by Childwick Chandin.


## A Pig in a Poke

Argentine and Danish bull buyers were in evidence at Birmingham Shorthorn sale where E. N. Casares
gave 2,000 guineas for Mr. Raphel's Shenley Fidle Marshal, and 1,700 guineas for Sir Herbert Leon's Blatchley Sentinel. Both bulls go to Buenos Aire
Sir Owen Philipps got 750 guineai for Sir Owen Philipps got 750 guineas for Kisant Crown.
Strong store cattle made up to 54310 s . in Shrew bury, or some 76 shillings per live cwt. They wer Shorthorn-bred cattle of nearly $111 / \mathrm{cwts}$. each. Here ive cwt.
Agricultural land still continues to fetch big price in Britain. The Kerry estate, in North Wales, realize K180,000, or $\$ 50$ per acre. A' belt of timber was sol or hire, realized 554,060 , or an average of $£ 55$ per acre. Some small holdings made up to 880 an acre. The Fernhill estate made miloo an acre for pasture. Gields,

## THE FARM.

## Sunflowers for Silage

## Experiments are being extensively conducted to

 iscertain the valuanine
iust
how successfully they will replace corn regions where the later is not sufficiently hardy to make its cultivation practicable. In some parts of Easteri canada, in New Ontanio and throughout the west, sunfowers may be found a vatuble she thearliest experi-
far the matter has not got beyond the mental stage in Canada. Nevertheless farmers in northern latitudes where corn does not do well should re promising.
Peas, oats and vetches have been found a good
substitute where corn could not be produced successfully, sut sunflowers may surpass that mixture in yield and hus, if as strong or stronger in feeding nutrients, prove in o be superior for silage purposes.
 Visited the Manitoba Agricultural College during the
month of Jul, this year and there saw growing three
acres of sunfowers for silage purposes. Results have been awaited with considerable interest, and recently ad
report has come to hand. Prof. T. J. Harrison, Head

## '"To make live-stock raising profitable, it is necessary

 To make live-stock raising prontable, in is necessaryto have some suculent feed for winter use. In the
West field roots have never been in favor because of the
 endeavor to sol the Manitoba Agricultural College ha
Department of
been growing and ensiling different crops: Corne oats, been growing and ensiling different crops: Corn, oats,
millet, sundan arass, sunfowers, ect. So far sunfowers
sive promice of being one of the best substitutes for
where oats do not the southern part of the Province cre. The sunflower is much more hardy matter per with no aitl stand several degrees of frost in the fal the same as corn and inter-tilled, thus makinn in drill per acre. This year from a three-acre field of sunf yield he Field Husbandry Departm of green forage. This was put into the silo and wil "The crop was produced at the following Disking, crop was produced at the following cost
hing, 85.25 , harrowing, $\$ 1.69$; seeding, $\$ 3.90$; thin ing, 85.25 ; cult tivating, 80.72 ; weeding, 80.30 ; cutting This makes a total of $\$ 186.40$ for 90 tons seed, $\$ 4.80$ n. There was no cost for land charged or $\$ 2.09$ pe he crop as the land would have been summed up allowed sunfowersore, not producing, had it not been put in

## Is the Simplification of Law

 Possible?There has come into my hand recently a smal Tamphlet entitled "Law Reform", which contains some food for thought. The writer begins by saying
every man, woman and child is vitally concerned about each and every law, but that as a matter of fact they are ignorant puts a pump in the well he does not know whether he owns the pump or whether it belongs to the landlord If your neighbor's chickens destroy your flower bed, you do not know whether to send the rest of the flowers man wanted to borrow money he had to one time if a draw a document or bond which expressly stated what thie penalties would be if the loan were not paid according to the terms mentioned. That time is past. Now, fill up a small slip of paper or sign a nave to do is to legal document is reguired and you do not elaborate consult a lawyer in the matter. Is it not possible that the simplification of law which has taken place in this particular matter might be extended to many other estate you have to fill up a very elaborate document called a deed. Is this neressary? lo it any more ment sary than the loan bond was in former days? As the writer remarks stockorokers transier millions of dollars worth of stock in one minute, while cakes two lawyers ent as applied to the transer of land: "In consideration of one thousand dollars I hereby transfer all my right to the east half of lot fourteen m the second concession of the township Of Brighton, County of Northumberland, unto James lawyer I do not venture an opinion as to whether or not such a document would be suficient. But those who have been impressed as 1 have with the tediousness and prolixity of our legal phraseology will welcome any sug-
gestion to me that some very marked reforms might be made in our laws and legal documents which would conduce to economy, and certainly this is no time for waste of any
I venture to suggest another thought in this connection which is not dealt with in the pamphlet to
which I have referred. It is this:, that if our statute laws were of a more general character and their interpretation left more to the judges than they are at
present justice might be more frequently done. present justice might be frequntly done. I renumber of lawyers and laws in Switzerland, and those of the United States. In the former country laws were relatively few and lawyers were few. The application and the Interpretation of the law was left more to
theindividual fewer lawyers were needed, whereas in the United State the laws were so many and so varied and so minute in their details that it was practically necessary to have a thing to be said for the the. There is indeed some to the iudse aitiog the gate. of applying and interpreting a very concise and simp law. Conditions have changed of course, since that time and somesuing of a more detailed character books that there is iso end, so it may be said of the making of laws. Our statute laws that it is practically impossible for any one to become acquainted with all of them. And as for our commo law it is even more impossible to become acquainted
with the basis therof in the multitudinous "procedent and cases" upon which this law has been established. It is indeed reported of a certain Lord Chancellor England that he exclaimed: "God forbid that I should know the law.". And if such a one cannot compass the awyer to do so? Not being a lawyer and without any extensive knowledge or inteusive study in this subic cannot dogmatize. The matter, however, is one in possible by simplification of our laws and by bringin our legal documents up to date to save time and mone
and reduce the number of lawyers necessary such would be worth while. At alii events I subnit these state Brand ideas or what they are worth.
Brant County, © Ont. W. C. Ciood,

THE FARMER'S ADVOCATE
Corn Experiment in Lincoln County

Editor "The Farmer's Advocate"
Under the auspices of
Under the auspices of the county branch of the Ontario Department of Agriculture, a corn variety the was conducted on my farm in Lincoln County this past corn best suited to ascertaining the variety of silage ras all plarted for the Niagara Peninsula. The corn was all planted on June 4, and cut on October 4. Folowing are the comparative results:

Weight at cutting. balley
Dry weight, two weeks later
Maturity of ear at cutting...
Weight at cutting Golden glow
Dry weight two weeks late
Maturity of ear at cutting.
............................. 5 bs
Weight at cutting
Dry weight, two weeks latç
Maturity of ear at cutting
Weight at cutting
Dry weight, two weeks later

Weight at cutting

weeks later................ sal

Weight at cutting....... 9 lbs. Dry weight, two weeks late
Maturity of ear at cutting
Wisconsin No.
e to withstand the to be the most Lincoln Co., Ont.

## Britain Getting Anxious.

being felt upon the labor troubles in the U. S. A. is ments of the new "pack" of bacon have been: delayed the Sates are chiefly wheat, butter ant's imports from with eggs and dried fruits in small quantities. Canned meats and fruits, condensed milk, wheat and oatmeal products are largely imported on private accounts. siderable quantities.
The St. Lawrence ports of Canada will soon be closed by ice, leaving only Halifax and St. John available, grain shipments. It is customary in the winter farge much Canadian wheat to come to England through for
United States, United States, and so, if transport is obstructed the the situation becomes more serious, special measure will have to be taken to maintain our rather limited ference by the Ministry of Shipping in the arrangenent
of freights. of freights. .
the value of $£ 1,500,000$ in the United buying butter to country has to wait for this addition to its supplifs th serious ill effect will follow. Most people in England Bacon stocks are fairly good thout butter. much to be desired. If the American shipments
bacon are suspended, countries can be stopped, and export of bacon to other home consumption. Albion.

CANADA'S YOUNG FARMERS AND FUTURE LEADERS

How Boys and Girls Clubs are Conducted in Illinois
being formed in Canada during theys' and girls' clubs especially the calf, sheep and pig clubs, it is intercostion elling how tharem the Illinois College of Agricultur in the United States. In Illinaizized and developed open to any young, person between the mbership und eighteen years. Fach thenter oft he clut ages of ten
to enrol as a membesed

 tion are slated to be as ointows. oljects of organiza-
gins the general principles of thrift, teach bovs and in the movent
agencies as
banks, and


The fo swing paragraphs are quoted from the circular and explain the method by which the calves in this
instance are purchased, and also give an idea of how club instance are purchased, and also give an idea of how club "Any plan for conducting to the education of the club a calf club should look development of the dairy interests of the community It should assist the home and school in developing good citizens,
dairying.
"In the extended ownership plan,
feeds and cares for a heifer during a perin club member extend beyond the time of first freshenin which will portunity is thus afforded for a more extended educational enterprise than is possible under the short-time plan. will have had considerable experience in caring for his animal, and as a member of a club he in caring for his studied, and discussed the literature sent Junior Extension Service. He should then be byle to time. Informatiom of the care of the cow at calving on the subjects of will also have been sent to him tion, weighing and testing of milk and thilk milk produc of testing associations. These subjects will hanzation thoroughly discussed in the regular club meetings be success of a club organize the interest and ultimat commercial organization will under this plan, if some or more pure-bred bulls. In this way the with one may be laid for a community breed associarion foudation

## "In the short-time or auction plan

commercial organization ohtains, plan, a bank or othe tures of all boys and girls eligible to membend signa wish to secure calyes. Each member of the propos club purchases a heifer and gives an approved note nos for a specified period, such animal. The heifer is fed An auction is held at the end of the feeding or a year which each club member may sell his calf. The differ ence between the original investment plus other expenses, and the selling price, represents the return ex-
labor and profit." Each member reserves the bid in his own calf at the member reserves the right to

The dairy sire
. Selection: type and pedigree c. Faed
d. Management

Cow-testing associations
a. History and development Organization
Economic and social benefits
Community breed associations:
Organization
Economic and social benefits

## AUTOMOBILES, FARM MACHINERY

 AND FARM MOTORS
## The Horse as a Motor

We hear a great deal about the gasoline engine, the
tractor and the automobile, in comparison with the horse that for hundreds of years has been with the work all over the world. Very few people consider the that it possesses life. a motor, for the simple reaso to consider the horse as a same time it is possible consumed supplies the energy, which what the feed formed into work when the horse is hitched be transmachines or vehicles. Viewed as a machinc the bariou feeding self wonderful piece of mechanism. 'A self reproducing motor, it is self-maintaining and self efficient service. Combustion must take capable of body of the animal, as in the interior of a place in the because it takes place at a much lower tempera, but is lost in the case of the of the heat value of the fued ordinary engine. Consequently, the feed eaten by the horse is converted percentage of much larger percentage, in fact than into work The animal is really made up of a highly-complicate
system of motors, consisting of muscles, which are aided in their action by joints, and other provisions of nature
which enable the animal to
obtain obtain a leverage during action. A muscle exerts its is, by in only one way, that in a pull, and for thesulting muscles are arranged in pairs, as are arranged in biceps and triceps of the forearm. This action of
muscles has been likened to a steam plant, which, when working, converts a large in the fire-box into mechanical energy, but as soon as the engine is stopped and
the flow of steam from the boiler stops, the temperature
rises rapidly.

The strength of muscles is considerable and may be
illustrated by the bices which acts upon the forearm. This muscle acts while at a
"Organizing
nembers are only the first securing calves for the ats well The club organization should in a successful calf meetings should features. With this purpose in eational convenient phould be held at least once a month in gress of the work the purpose of discussing the pro meetings may be aroused by the interest in these of an outside speaker to address the boys and presence on some special daily topic. The local clund girls
and advisory committee should assist the club ler in arranging for this part of the work. tion on these topics will be furnished upon application to the Junior Extension Service." 1. Care of the calf for the first six months:
a. Weaning the calf b. Changing to skim-milk
c. Grain rations for calves d. Rrain rations for callves
e. Calf
age to time of freshening:

## a. Grain, roughage, and pasture b. Developing the heifer

d. Time and age to breed

- Eare of cow and calf at time of freshening:


## a. Feeding, feed records

## c. Housing

d. Weighing, testing milk, and method of keep


The Low-swung "Sloven" Wagon. right angles with the upper arm as a lever of the second class, so-called, with a leverage of one to six. That is to say, the distance from
the point of attachment of the muscle to but one-sixth of the distance muscle to the elbow is elbow; thus, a man is able to hold within the hand, pounds, which necessitates horizontally, a weight of fifty lorce by the muscles. Sometimes the pull of the muscles
as they act over to several thousand pounds joint of a horse may amount to develop only about two-thirds as possible for the ox horse, because he moves at a much slower speed. horizontal resistance adapted to driving or overcoming carrying loads. Man, but is not so well adapted for loads almost equal to that which can he carried carry horse, but even though the body is bent well forward he can drag but a small fraction of the load a horse
can pull. The difference is in the that of man being in the is in the shape of the skeleton bearing a load, while that of a horse is spread more for a load several times his he is able to draw upon a cart resistance that a horse can overcome . The amount of own weight, his grip, his height and length, the direction
of the trace, and musula of the trace, and muscular development.
pull, if only for the reason that he will adhere more closely to the ground. When that he will adhere more ously the tendency is to lift his fore feet from the strenuand occasionally it will be of assistance in enabling a horse to pull a heavy load, for the teamster to et One must, of course, use sufficient to hug the ground. such a case and avoid, use sufficient common sense in the necessary assistance. A weight heavy enough to become a burden, or interfere with the free drawing

## ACHINER

## power of the horse, woul value of the added weight

value of the aided weight.
Weight will add to the hors's grip upon the ground, but at the same time if a horse be poorly shod and
travelling upon a smooth surface, the amount of he can get will be negligible. Thus, horses that are
expected to draw loads on icy roads cannot expected to draw loads on icy roads cannot get any grip
of the road without sharp calks upon their shoes. A common dirt road is excellent for drawing loods, for the wagon it enables the horse to get a qood rgir wor
his feet. Some roads are much more difficult for the horse tow grip than others.
A low, long-bodied hor
over a tall, short horse for hea cons diderable advantage can use his weight to better purpose. Furthermore if the weight of a horse is well to the front he can do more efficient work because there is a tendency to use
the rear foot as the fulcrum of the lever, and the body is thus balanced more or less over the rear foot. To procesary to remember that when a horse is pulling
neevily he shows a tendency to lower his head and heavily he shows a tendency to lower his head and assumes more or less of a crouching position.
well within his power to move if if the traces were horizontal. That is to say, if the traces extended straight backward from the point of his shoulder, instead of
down to the level of the doubletree the hors could pull a moderate load easier than when the load pulls down upon him. But when the load does pull down
upon him it also helps to hold him to the ground so upon him it also helps to hold him to the ground, so
that in the case of a heavy load, as horses are hitched they have the advantage not only of their own weigh and the grip they can get upon the road-bed, but of this downward pull, which gives them added power,
although it requires a little more power to pull the load the same tim overcome resistance equal to about one-tenth or more of his weight. Work may be performed at this rate
for ten hours a day. Assuming this to be true, or ten hours a day. Assuming this to be true, $\mathrm{a}^{\circ}{ }^{\circ} 1,500$ pound horse will perform work at the rate of one horse
power. But 1,500 pounds is much above the avera weight of a farm horse, which is about 1,100 pounds Such a horse will work at the rate of about two-third to four-fifths horse-power

## THE DAIRY.

## Is the Cheese Industry Declining

 A letter recently appeared in "The Farmer's Advocheese factories in Western Ontario have recently been put out of business as such, and the milk transferred have complained a great deal during the last three or four years that the cheese industry is being threatened by the many purchases of factories. The other day we Instructor for Western Ontario and Secretary of the Western Ontario Dairymen's Association. Mr. Hernshas a record of every factory in Western Ontario and as a to tell us almost exactly the number of factories purchased during the last five years, those which have year, and new factories that have been built in the las Wive years. find, for instance, that the Brooksdale factory was sold three years ago; Thamesford about five year actory three years ago was turned into a milk powder
 years ago, and the Mount Elgin factory five years ago hey are all acting as receiving stations for one or of the milk product companies. To this list must also be added Glanworth, which has been turned into subsidiary powder plant. Of all the factories purchased
prior to 1919 in Western Ontario only the Culloden prior to 1919 in Western Ontario only the Culloden
factory, purchased in 1918, and the Northwood factory purchased in 1917, have actually been closed down and are now not receiving milk or making cheese. Two other factories, one at Avon, which was practically
closed last year, and another at Bookton, which was losed two years ago, have both opened up again this during the last six or seven years
Of the six factories purchased in 1919, only one has
actually been closed-the Belmont factory. The actorics at Verschoyle, Corinth, Westminster, Glad stone and Mapleton were all bought by a milk powder
company, but the milk of patrons is still being received at these factories and then transferred to the powder
in the last five years is still owned privately as before this is the North Oxford factory, where the owner and transfers it to the milk powder factory. New factoris.s have been built at Glen Myer, Eden, Cranbrook, Mount Elgin, Union Star and Brunner, while it is
probalide that two others will be built at Springfield and Gad's Hill. The decrease in the number of factories operating is therefore, not so large as one might expect,
especiallv since, so far as we could find out, only three factorics have actually ceased to receive milk, while six Fres have been built.
much worse in we can understand, the situation is
or not the situation is one to alarm those interested in the development of the cheess industry is a question watched the development and to discussion, but those who have industry in Ontario for the last thirty years are inclined to believe that the situation will right itself naturally for instance, to note the develope. It in interesting, industry in Ontario during the years of the war cheese is a concentrated milk product which was in immediate
demand iust a find that the production war broke out. $\ln 1915$ we was higher than it had been for. many years, owing to It if fact that cheese was commanding a good price paying relatively hit that time the cheese factories were powder and condensed milk factories, because tha d atter
had not yet found such


Betsy Brown.


are at present apparently enjoying. With the development of the foreign market for condensed, evaporated and powdered milk, these branches of the industry were in a position to demand and utilize a greater pro-
portion of the milk supply and as a result they have portion out several cheese factories in suitable localities as the easiest and most peaceable means of securing an adequate mik supply
It is by no means certain, however, that the demand it is probable that the demand will continue greater than before the war. Should the demand fall off patrons would probably not find the market for milk so good at the powder yactories and condenseries, with the result trate chrcese may again become reatively they will have to build new factories for themselves which, of course, will be an inconvenience
that if only faut we see about the whole situation is that if the cheese factory is sold outright to the milk
products company, one of the markets for milk formerl open to the producer is closed. It is perfectly true that the making of cheese is only a means to an end, and that it is the total production of milk, and not the relative


## Ve of the biggest cheses factories in point of businesse in Westory.

quantity of butter, cheese or condense-1 milk manu
factured, which is really the important thing Milk production, and not chese-making or butter-making is the basis of the dairy industry, but at the same time it is always a good policy to keep the road open to more
than one market. In our judgment it would be a good thing if all the factories which have been sold during the last tew years had been retaincad by them wo that ir any time cheese manufacturing offered a miore profitable outlet for the milk, cheese-making could again be
resumed. In the case of the North Oxford factory, resumed. In the case of though at present the milk is
this is stil! possible, althe going away from the che advantage of the varying should be prepared should be able to turn the volume,
demand for milk, and sho
of their supply either to cheese-making, market milk,
or whis it is almer elsc may offer the best market. To do operatively by producers, because only in this way
can the milk be swung into various channels with the least inconvenience.

## Ontario's Position in Dairying.

 Those who wish to speak in a complimentary mannerof the Province of Ontario often call it the "banner"
Prone Province of the Dominion. Certainly this seems to be
correct phrasing as regards the dairy industry Officials of the Ontario Department of Agriculture tell us tha in 1918 milk to the value of $\$ 74,427,300$ was produced which in that year milk, from which was made 121173086 pounds cheese, valued at $\$ 30,293,271$. Butter factories number ing 160 handled $736,336,800$ pounds of milk, and manu factured $28,714,352$ pounds of creamery butter, value
at $\$ 14,357189$ Nine conden at $157,803,513$ pounds of milksed milk factories utilize Five milk powder factories handled $56,233,145$ pounds of milk, valued at $\$ 1,258,040$.
Thus, in addition to $\$ 25,000,000$ worth of milk used
in 1919 for the manufacture and required for are of Ontario are seen to have taken in $2,320,270$ O230 pounds of milk, valued at $\$ 49,427,500$. Of $1,568,200$ milch cows, furnishing milk to dairy factories in Canada practically hall, or 72,788 , are located in the Provinc cows furnishing milk to factories is only forty-four per cent. of the total number in Canada, it is easily to he seen that Ontario can boast of well over a million dairy cows. In Ontario there were in 1917, 45,114 butterfoctory of 96,255 patrons for all dairy factories in the Province. A vast quantity of whole milk aoes from the dairy farms of Ontario annually to supply the city milk trade. Just what quantity is produced for thit purpose it is very difficult to estimate, but Toronto hundred milk distributots, few of whom are doing business of very large size.
The dairy breeds represented in the Province are the Holstein, Ayrshire and Jersey, principally, with a fev Guernseys. The percentage of pure-bred cows of thes
breeds is slowly but steadily increasing althou are still hundreds of farms whereon the grade Shorthorn ranks as the representative of dairying, and often, it must be added, to some purpose. Ontario has every reason to be proud of what her pure-bred dairy cattle three prominet dairy breeds owe their activity to the "banner" Province of the Dominion. May Echo Sylvia, with a record of more than 1,000 pounds of milk in seven days, 152.1 pounds of milk in one day Eastern Ontario: and it was in Ontario also that the achieved world championship honors. Among the bonnie Ayrshires we immediately find Jean Armour bred in Oxford County, and the first cow of the breed to make a record of 20,000 pounds of milk in one year Iean Armour family shows a combination of show-ring fean Armour family shows a combunation on show-ring
form and heayy-producing qualities that is seldom met with. And then among the beautiful Jerseys we find beautiful Jetseys we find
Sunteam of Edgeley,
bred only a few miles bred only a few miles
north of Toronto, in the County of York. Sun-
beam of Edgeley as four-year-old flcow pro
duced 18,744 pounds milk, containing:
pounds of fat, in one year, which is the highest record made by any Jer-
sey cow in any of the provinces of Canada
Both the Holstein-Fries ian Association of and the Canadian Jersey headquarter in ether and the great bulk o their membership also. While a great deal
has been accomplished
in the develooment ol in the development o
the dairy industry of the dairy industry o
Ontario, there is stil Ontario, there is still
much more to be done
Not Not long ago we came
across a dairyman of the averase yield from sev enteen cows for the year 1917 was 9,923 pounds of milk. These were grade cows raised on the farm
and always bred to pure-bred sires. For more than fifteen years no single cow has been bought for this herd, but consistent grading up has accomplished a notable result. Doubtless other dairymen could be
found whose careful work has brourht them similar Oound whose careful work has brought them simila
results, but for the great mass of Ontario dairymen there is still much to be done. Some very large dairy herds are to be found over the Province. In the recog-
nized dairy districts, such as Dundas and Oxford nized dairy districts, such as Dundas and Oxford
Counties, in the eastern and western portions of the Province, respectively, it it very common in se herds the cheese factory or condensery sometimes run up to
$\$ 1,000$ or more per month when the fush of milk is
n in June, and on one Oxford County farm that we
know of 2,200 pounds of milk were being sent daily
to the cheese factory in June, 1919, from a herd of
sixty-five grade and pure-bred cows. The farm was 400 acres in size.
Ontario can three great needs of the dairy industry and quality. Labor at the present time is, organization handicap. Rural Ontariohas been denuded unmercifully of its rural manhood, and before agriculture can "come wherewith to the the Province must have more men upon man labor, and dairying has, therefore, felt the lack of labor as acutely, if not more so, than any other
branch of agriculture in branch of agriculture in Ontario. Our Governments have pledged themselves to the policy of securing suitable agricultural labor by immigration, and the
dairy industry it the Province of Ontario should a good opportunity for the emigrant. Organization is proceeding with great rapidity during the has been years. The dairymen's associations of Eastern and mestern Ontario have been supported by the Govern good work for the industry. The Ontario Milk and Cream Producers' Association is doing now, as a comparatively new organization, a splendid work for milk
producers that requires only time and enthusiasm to producers that requires only ti
bring to a successful conclusion.
Educative work such as these organizations could do in the way of improving dairy practices, entcouraging the use of labor-saving machinery, stabilizing prices by
advocating the payment for milk on the quality basis advocating the payment for milk on the quality basis,
could easily within five years' time increase the net return to the dairymen of Ontario by twenty-five net cent. annually. The elimination of twe sty-five per
improvement in feeding mull, improvement in feeding methods, the use of the bulb, cock test in eliminating the boarder from the herd, There is no lack of opportunity for developing Ontario's dairy industry. Lawor, organization and still more quality in our products is all that is needed to bring

## More About Milking Machines.

 of opinion as regards milking with some new expression disputing the fact that the number of milkingere is no firms manufactivy increasing, as are the numbers of firms manufacturing them. While it is perfectly true other a great many from one end of the country to the other a great many farms where milking machines havbeen purchased and are not now in use it is that the milking machine has solved the lator protrue to a considerable extent for very many hard-working darry farmers, during the past four or five years. We rather than decrease in poularity as manhine will increase tinue to make it more perfect in response to the sugge tions and complaintsof users, as well as the investigations machine will mechanical experts. We feel that the milking have a sufficient number of cows mistance to farmers who warrant the installation of cows milking steadily to give it the necessary care and attention. A machine has to do with the yield of such a virpose, and which and one so easily contaminated, must of its very nature be more exacting in the care which it requires than most of a recent bulletin from the California Experiment as further evidence of quote the following paragraphs machines where the necessary pare and attention of milking "Milking machines have operated in dairy herds in different parts of the country Hor more than a quarter of a century, and in rany
dairies several generations of cows have been milked
by machines during of securing efficient this period. Owing to the difficulty especially while war conditions prevailed, machine milking has been adopted in a rapidly increasing number
of American dairies during this now perhaps few dairy sections in the and there are milking machines have not been installed and are operated successfully.
numerous investigationse of the milking machines and of machines conductod by the work of ditferent makes
the last decade or two have feppriment stat ions during abbint actade or two have fully established the practing
by this timme coconomy of modern milking machines


results of carefully conducted experiments at our own
and other experiment stations, and is also borne out
by the experiencen oy the experience of practical dairy farmers in all part the present time there are eight diffegrent makes of milking machines on the market in this state, anyone of which may be confidently expected to do satisfactory work in the hands of a careful operator. Failures in machine-
milking have been rather numerous milking have been rather numerous in the past, from a
variety of causes, chief fact that the owner did not fully understand the mechanin operating machines or appreciate the necessity of care up the machine-milking promptly by careful stripping. in number as the tailures have, however,greatly decreased in simplicity and efficiency, and the conditions for their successful operation are better understood. It is safe to say that a dairyman whointroduces machine-mil king into
his herd his herd with any standard make of machine on the The best remedy for on trial himself as is the machine. to become thoroughly familiar with the mane-miking is its adaptation to individual cows, and the reauirements for keeping it in a mechanically perfect and sanitary "Milking
adopted in the dairy districts af yet been as generally adopted in the dairy districts of our country as, for
instance, in Australia and New Zealand to reliable reports. received, there are but few daing of over thirty cows in these countries that are not milking
by mechanical means by mechanical means, and many smaller dairies are scarcity of reliable, efficient milkers, With the present of labor, feed, and dairy supplies, the necessitg cos ducing the cost of milk production becomes greater than of the followint is possible to do this by either or both of the dairy herd thos. By increasing the production bred sires and the modern methodse of good puremanagement, or by reducing the operating expenses
of the dairy. The milking marhine in reducing these expenses. machine is an important aid of milk are long gone by, and everything points to the
fact that we have tave act that we have now entered upory an era of machine-
milking. It is the next step in the econ management of fair-sized or large dairies, and fald the ext perience of other dairy countries in rearies, and the ex-
machines will undoubtedly be dull ,"The investigations of this licated in this country. stations have shown that milking mach experiment operated do not injure the udders machines properly
garget garget or other udder diseases. Udder troubles are with the method of millin not in any way associated at times in machine-milked practiced; they will occur herds, although line-milked, as well as in hand-milked
taken taken in operating the machine. The best care is avoid troubles of this kind in case of machine milking is
to remove the machine as son down, and to finish the milkina no more milk comes necessary delay. Prompt and by hand without un is a most important factor in successful machine milksmall amounts of thill machine used leaves only very a number of points should receitivecular make of machine. first cost and nearness to secrvice consideration, besides of up-keep, depreciation, simplice agency, such as cost
of cleaning.
The varion differ conside. The various machines on the markd evident considerably with regard to these points, and it it is in all respects; also that any farmer wabove the others
of intelligence and resourcer fith a fair degree stall a milking machinurcefulness need not hesitate to in to cows. In many cases it may if he keeps twenty or to fititen coos, ase it will make also in dairies of twelve
upon or entirely indenendent of less dependent upon or entire as is it will mandent one onver less dependent
saving in the cont help. The actual
milk in the milking is, however, greater in the machine over hand
than with small ones, and will in the large herds portion to the size of the herd. will, it general, be it in pro-
with proper care, and with careful
ping phon thow that ping, milking machines will have noappreciable effect
one way or the other cows or on the general welfare of the herduction of the
not long render they will not long render satisfactory service with careless hand-
ling and lack on leand
machines are oreanliness. For this reason, milking


## POULTRY.

fore he can secure the best results. If he has a mo in a fairly good position to know just laying he will or will require: division is necessary, and if at all possible cureflly, where re put into the pens where they are going to stlay should into the laying pen birds that are not stroconomy to put The careful poultryman will make seleng and vigorous. to time during the growing season, gradually from time the weaker birds, so that by the time the flock goes ing tis winter quarters none but the strongest and mook in putting immature birds into The is not much use because what is wanted is pullets thint are mature and
ready to prod ready to produce eggs when the prices are best in the neighborerhorm flock should contain so in the neighborhood of one hundred laying hems where farm and will not require economically on the average than a much smaller number at deal more attention in such cases, be kept together in one whole flock can, although for the highest individual production of ary, each or at least if there were four flocks of twenty-five however, is at a premium the larger number per pen will
prob lat as winter manamemen
problem
as nearly
as nearly as possible sprina has to face is to imitate flock such endeavor to mal conditions in the winter. suffering unduly frable the birds to do their best without from too long confinement in stuffy becoming weakened is very important, and during the wintertime hens wing requare feeds that are more apt to keep them warm ing will vary to certer have in the summertime. Feedgeneral corn is a better winter f with the breed, but in because it enables the birds to maintain the body feed; and will also help to keep up normal production. Hot will help the bite a week during the very cold weather been found to have a keep themselves warm, and have production of eggs. $\quad$ Birds that prounced effect upon the prevented from ranging during the winter confined or supplied with plenty of green and succulent feed be valiety is anty of resh water and a ration in which be in sufficient tinctive characteristic. The feed should and for the raw materials supply the demand for heat must be plentiful materials used in egg production. It
and Condition, not very fat and ce tainly not thin
Exercise is
expected to lay more than a ement for the hen that is The good layer is alwe than a small' number of eggs. the industrial classes, and shows it by the belongs to expenditure of energy from the time she continual She is contimorning until she finds it again at night the beginning to the conding and busying herself from materials for the formation the day, storing up food fore, is not something than col egs. Exercise, thereif necessary, the hens must be forced to take it by th, and them work, for their feed. The lighter breeds are easier apt to to in this respect, because they will be more nature and must be however, are more sluggish by greater extent than the lightorer work for theirg feed to a can be obtained where the birds areds. Better results houses, and forced to scratch in fairly deep litters for their feed, than where they are e tarned out for exercise
on ground that is wet and chilly, includer such things as health of the flock of poultry and careful attention to details. It is absolutely neces kind leat cleanliness to observed, because dirt of any The lit er should be changed fairly frequently disease. three or four times each winter. Iff, when the flock
is put into laying quarters of clean litter is put on the floor, this will pee inches vear down and some fresh litter can be added from time arm flock is undoubtedly. The best material for the this hides the grain better than short straw because bound ean it if they want to without becoming els If fresh litter he hes it looks clean in the poultry house necessary to dean added from time the time it it will house be

## Value of Trap-Nest

roduction. I only five years, trap-nesting for
ime. I faised 16 pullets all plant to occupy
ten pullets laid to 31 st October 2,03



A Precocious Bird
Editor "The Farmer's Advocate"
I am sending you a little record of one of my pullets.
Can it be beaten? She was hatched from an incubator May 1,1919 , started to tay September 9 , and yesterday of 9 chicks. She is a Partridge Rock on Laird Bros, farm, Chatham Townshin. A. Subscruster's
of possibility; worrespondent are quite within the range
Perhavs ono record to match the feat.

## HORTICULTURE.

##  <br> Color and Quality Mark Revival of Ontario Horticultural Exhibition.

## Ontario Fruit Growers in Convention Enjoy a Practical Program Covering Many Live Topics.

The Ontario Horticultural Exhibition is again to be
numbered among the regular agricultural events that take place throughout the year in Ontario. For several successful exhibititon of horticultural products had been held regularly in the month of November under the
auspices of the existing associations representing the four interested branches of agriculture, namely, fruit growing, vegetable growing, floriculture and beekeeping.
When the war came in 1914, plans for a show more shen the war came in 1914, plans for a show more
sucesslul than ever were already under way, but were
quickly abandoned for the more urgent and necessitous duties of war time. For the ensuing five years horticulture in Ontario lacked the stimulus of the big annual exhibition, and, indeed, by many of the less interested, peace conditions the machinery of the Exhibition A sociation was once more put into running condition, and plans laid for an exhibition in 1919, which would mark the return from war to peace for all horticulturists, and
once more serve, annually, to mark the progress of art and practice, in commercial fruit and vegetable Thus it was that in Toronto last week the Ontario Horticultural Exhibition was again visited by lovers of November 11, to Friday the 14th, the exhibits of fruit, Aowers, vegetables and honey were admired and com Exhibition grounds. It was only natural, we believe that the show should have suffered markedly in number
of exhibits as a result of the long break between 191 and 1919, but, on thie whole, the exhibits were as satis
and who had the responsibility expected. In fact, those pleased. Exhibits in all four classes of products were
very creditable to say the least, those in the florist and vegetable sections being the most numerous com-
paratively. Fruit and flowers are always the two chief he displays by the Toronto Retail Florist Club better than ever before. It is not our place to comment
very fully upon this section of the Exhibition, but we very fully upon this section of the Exhibition, but we
do wish to give full praise to these very pleasing displays. elity than would be a number casual observer, because they were crowded fairly Closely together and did not occupy, therefore, a great
deal of space. The specimens exhibited were credit oxhibits always quarty, atmost without exception. Honc were prominently make for good displasias, and this year
the building ply placed in the centre of

As to the fruit, much more can and should be said attracts the crowds, and it is fruit growing, particularly war applies to apples, which has suffered most from the
war. All told, there were only 19 fruit exhibitors. At this stason of the year apples predominate, and just py are all available to lend color and quality to the
show. The apples bulk large, both in display and prize money, since there are prizes for as much as a
30 -box exhibit.
Before the war there used to be several of these large entries, but this year, creditatabe,
though their exhibit was, Lynndale Farms, Simoce, were alone in this class, while they had only one com-
petitor in the 100-box class. The smaller classes o
boxed apples were better fll ox variety classes better filled, but even in the single ome of these were especially fine, however, particularly
hose from the Hamilton orchard at Collingwood. W. L. Hamilton knows apple exhibiting perhaps as few
other men in the province know it, but he knows it only because he has taken a pride and delight in showing to
he public the size, color and quality that the Georgian Bay District can bring forth. quality that the Georganly his first-prize
box of Spies, that won the sweepstakes prize for the best boo of apples in any class, wass someth pringe to narrvel
bat, and was the delight, not only of the casual sightser but, and was the delight, not only of the casual sightseer,
but of all fruit growers. Such color and quality are
rarel met with, and should have revived the failing
hearte oft wit hearte of any would-be fruit grower. His first prize
barrels of Spy and Baldwin also drew. nuch admining
comble comment, and certainly make one wish that it were
possilite to see more of such fruit in a day's travel.
Commerinlly there
 the and quality all through was an improvemen er any previous show.



Ontario Fruit Growers Association Meet.
The annual convention of the Ontario Fruit Growers Association took place also last week, on Wednesday, Thursday and Friday. It was held on the Canadian
National Exhibition grounds, in the basement of the Government Building, and just across from the Transportation Building where the Horticultural Exhibition was housed. The attendance was good for this time of year, and considering that members have become more in January or February The Association has become much depleted in numbers due to the usual current
causes and now numbers about 600 of which number about 200 are from the Norfolk district
President Jas. E. Johnson, Simcoe, opened the conaddress, in which he said in part: "I sincerely hope that the Department of Agriculture will extend their work, and now is the opportune time for them to do so, be tore it is too late, as apple production is on the deccine in Ontario. 1 als thimk in having experienced fruit-me throughout Ontario to be known as instructors in the growing and packing of fruit. The Dominion Govern ment does something in this line, at present, when the Fruit Inspectors are examining fruit for shipment, but
I believe it is up to the Province of Ontario to carry on the line of educational fruit-growing for its own people. "I am more in favor of boxing apples than ever be fore, as apples wrapped in paper will keep far better
than when packed in barrels. In the apple season we are almost sure to have weather conditions too wan weather is warm and apples are packed in large package heat is generated which results in the decaying of the fruit. Next year at the Horticultural Exhibition in would please me to see a demonstrat
We should do all we posible can for fruit growing keep them contented on fruit farms. We must get back-to-the-land movement which we cannot expect under existing conditions. Be core this con of all classes
plished we have got to have a co-operation whet her working in the heta, factor, or office and make "During the four anxious years of the war we were
all wishing for the end of the struggle to come, thinking the condititons wourd then erld of ugly temper and misunderstanding. Te shourd are and dificulty we face
fellow's problems. The greatest
to-lay is that of understanding. We have hal too much talk about masses and clases and too nete ecergnition
of the truth, that, in the main, all men are very much
and alike. If we but had a better opinium of the others' ideas
it would make for greater contentment, and this would

Dominion Horticulturist, Ottawa, dealing with
the commercial varieties of the commercial varieties of apples, of Canda, with
the United States. In Mr. Micoun's absence his assistant, M. B. Davis, read the paper which showed evidence of great care and preparation. We can now only quote from the introductory paragraphs, but in
subsequent issues we intend reproducing this paper in sull: subsent issues we intend reprodacing tis paper in United States, where the covered by Canada and the Tropical, there is a great diversity of vegetation and a great variety f edible fruits, and most important of all the fruits is the apple. It is grown in every province of Canada, and in every state of the United States, and
while in Canada the number of trees grown in the coldest parts of the coldest frovinces is very limited, so in the United States the number of trees which are grown in the hottest parts of the hottest states is also limited. moderately cool climate but some varieties witr with stand great cold and others will succeed in great heat: The hardiest varieties of the colder parts are those which withstand extreme cold, the hardiest varieties of the warmest parts are those which withstand extreme heat. in some parts of Canada and the United States the growrequiring the shortest season in which the apple matures fruit can be successfully raised. Again other varieties
require such a long season of warm weather that it is require such a long season of warm weather that it is only in the warmest districts where apples are grown that
they reach full development Crimson Beauty quires but a short season, without much warm weather to ripen, whereas the Winesap and Newtown Pippin will not mature thoroughly except in the warmest parts
Canada as even if the season is a dong one unless ther Canada as even if the season is a dongo one unless there is much high temperature to properly mature these
fruits they cannot be very successully grown. Thus, iust as the banana and orange require higher temperatures than the apple if they are to mature, so different varieties of apples require different amounts of heat to
bring them to full maturity. Thus also some varieties do well in to a long, relatively cool season. Some varieties which only require a short season where the summers are hot do not reach their fullest development where the summer
"It has been found that there are about ninety varieties being recommended by growers in different parts of Canada and the United States, although, if all the varieties advertised by nurserymen were included, there would be considerably more than this, and there might perhaps be We have have not included that cording to their season into 13 summer, 18 autumn, 21 early winter and 38 winter sorts. Some of the summer apples are autumn sorts in the coldest districts; the autumn varieties, early winter; and the early winter, they keep in Ontario or where a certain variety is specially noted.

## heties for ouebec.

Professor T. G. Bunting, Macdonald Collese, Ste
Anne de Belleuve, Quebec, gave a very interesting and Anne de Belleuve, Quebec, gave a very interesting and
practical talk on some features of the work in the college orchard. The following extract from his address bears special reference to vareties.
The orchards at Macdonald College in the Province of Quebec are located twenty-one miles west of the city
of Montreal, and comprise thirty acres, consistling of twenty-four and a half acres of young apple trees. twelve and thirteen years of age, an acre and a half of American plums, some cherries and pear trees, and some older apple trees
The standard apple trees thene been planted 33 feet by 33 feet with fillers the one way consisting of earlybearing apple trees, sour cherry and plum trees, mostly of the Americana group
Mr. Macoun's varieties of apples, including a number of Mr . Macoun's named seedilings, have been planted.
Of this number of varieties 12 are represented by forty or more trees of each- 12 by 20 or more trees and the balance by from 1 to 4 trees: The soil is a fertile clay loam overying a rather stifinclay, and underneath airly well
varving depths is rock. The land has been fall drained with tile and for the most part dries up in the spring much eariier than adjoining undrained land. an difficulties have been experienced in marketing the fruit The market requirements are for a large output of
uniform fruit of known value. Good fruit of known value will sell readily, but unknown varieties of good
quality are more difficult to sell, and wiil not bring such good prices, while little known variet ies of mediocre
merit should be discarded from the comniercial plantings.
as well as market requirements, should be carefully planted. Too many varieties is a mistake, except probably for local markets; however, it is well to have five or six varieties which will aid in distributing the season, and also aid inc and marketing over a longer for some varieties. The McIntosh and Fameuse are our two leading varieties, and are similar in many respects but the marked differences in other respects should Me noted and studied by the intending planter. The cases of high wind many as $t$ nears maturite, and in The Fameuse hangs to the trees way goll and the ground. until a amer the Mangs to the trees well,
result of the winter of 1917-18, and thousands of old and young trees have been killed out throughout old province. But we are not discouraged, for the Fameuse
has stood the test and has has stod the test and has been the leading variety for hundred years.
Wealthy, Alexander most profitable variéties are Duchess, We can grow these to Merfoctosh and Fameuse (Snow). merket grow these to perfection and have an unlimited sufficient hardiness and merit that it is questionable whether any of them should be recommended for ex tensive commercial plantings in Quebec.
combinations of fryit and vegetables
Acreages" was the subject Combinations on Sanded Atkin, Leamington. The following quotation is here "Few native Canadians havential points:
Few native Canadians have any conception of the is as old as the law of self-def The principle of expansion as nations, have grasped for more. for all time greed for grain we ignore the small and seemin our out chat things of nature, and rush wildly on with ture is radicallypass. Unless our system of agricul coming generations will have fod next fifty years that is now perplexing India.
fruit "The farmers of to-day, and more particularly the valuable lessons within the past have learned several and foremost of these perhaps is that intensive farming and rich soil is the only line of horticulture that pays.
Secondly that successfully, year after year, a large, followed to produce
"As to the first point, it it my intention to mention
it only briefly. In the Leaming scarcity and high cost of manure makes it almost prohibitive, we must resort to other means. True we do use, a small amount of farm-yard manure, par-
ticularly where ticularly where we have to follow extremely intensive irrigation plots. In the latter we pive sind and our irrigation plots. In the latter we give an annual ap-
plication of about twenty tons per acre, which is sup plemented with comentercial fertilizers. Where possible
ples. a cover crop is also sown in the fall, which is plowed
down in the spring. On the ressibe and in the spring and supplemented with commercial fortis
lizers.
greater consideration, and the that requires perhaps the great extent controls the loss from insect on to a plant diseases. While the majority of those before and vegetable, growing as well. These two work engage in gether in a good many localities and on the proper soil Combination that is is sothdy in nature, they give us a
While veritable and easily handled While vegetable growing is the principle one in our
district, a large number of the growerc district, a large number of the growers have found that
a combination of the two work well tovel a combination of the two work well together, especially
the smaller fruits, such as strawberries, currants and
even even peaches, to a very great extent. As a sandy soil
is not as well adapted to cheries these are very little grown and ares not nearly and pears, planted out early in the planted out early in the spring on a a oil that has been
previously well prepared. Farly pranted in the orchard. The cultivation necessary for them gives the trees a good start at no extra expense.
In the fall the vines are pulled up and piled around the
roots, which gives protection and also serves as a catch roots, which gives protection and also serves as a catch
to the snow. The second year the orchard is planted
with melons. necessary is. Tigese grow well, and the only preparation
hills. The thign some well-rotted manue hills. The third year often nell-rotted manure in the
trees have made palated if the trees have made a normal growth, but if the space is
limited and the trees permit it, two rows of tomatoes
are often planted the are often planted the wide way. By the fourth year
the trees will commence to bear, and further inter cropping would be unwise. Cabhage are planted in the spring, usuallon abouth Aprefi
11 to 10 The These ill all be harvested lyy the first week
of July. The ground of July. The ground is then given a light top trits week
of manure. and about Aus. 1 tn 15 is planted to straw-
berriit Alter: Chese produce are very good crop the test yew year.
the government grades for peaches
The desirability of Government grades for peaches
was discussed by F. A. I. Shemend, St. Catharines, and Hamilton Fleming, Grimsby. Both are vitally intereste this contentious question are worth noting. Mr. Flem ing condensed his opinions into the following recemmendations:
n estambished opinion that there should not only be an established grade, but that the minimum weight o
the peaches should be marked a large and difficult subject and should be. This is very carefully by all parties interested. I have spent much time on the question and, for the sake of discussion, and in order to obtain the views of my fellow growers, the established gran one gracte, and would suggest that represented person shall sell or offer for sale any peaches are sound to be of No. 1 quality, unless such peaches variety, free from bruises and other colorects. The The grade and mine peaches shall be two inches. be distinctly marked on the package the package shal name and address. Ten per cent. of the peaches contained in the package may be below the reacuiements
of this grade.
While I I have with me the Government standard eleven-quart basket, which will carry three packed layers of Noart basket, which will carry three
heaches as above described, I have made no reference to the pack, as the probabilities are that the new Government standard bushel basket
will be will be more generally used in the future, and at the
present time the heaped leno basket present time
legal package.

| ment |
| :--- |
| pract | practicable at the pesirabente, but thought they were im-

distrime the St. Catharine ing labor. Arthur Craise, of St. Catharines obainagreed with Mr. Sheppard, and it was stated that labor was so scarce this year in the Niagara District
that when the were simply rush of the peach crop was on, peaches run, because of the inpossibils and marketed orchard labor to do the grading. At a later session of the appoint a small committee, who would directors should advisability of establishing Government consider the
peaches and report at the next annual convention Government demonstration orchards demonstration orchards, . handling these orchards, and sme of the results that
have been secured. The Government leased orchards, consisting of 1,350 trees all told, and Ontario demonstrationce Enward. These orchards are for Mr. Kydd and Mr. Hodgetts stated that and both somewhat disappointed as to the compat they were work being carried on at these orrchantage of the good several different culltural methord been tested out and that cultivation is necessarn fors. He was convinced every hundred orchardssary If Ior ninety-nine out of
orchard of his own. he were operating an five feet of the trees, exceupt in the sprow within four or the ground in the orchard might be culltivated for six
or eight weeks. At the Whitby orchard was experienced in controlling scab, because of a a wind moisture remains on the trees all forenoon, pard that
the proper conditions for the arpowing He also said that this orchard growth of the disferase.
winter injury ther more frem except one. At Collingywod, much less hinsect trouble,
has been experienced than at any
Thedford Thedford orcharin, in Lambton any other place. The
trees, and was leased four years ounty, consists of 230 th had never been pruned or sprayed for twelve year ment $\$ 500$ per year. At Wellingtened for Pr the Depart-
County, where an orchard has been it was necessary to deal with trees, the tors of yons,
were badly cankered. About 450 tharcols of practically renewed, so that the tops have had to be
tofore been secured. consists of 330 trees, and the first year it wasty orchard it merely paid expenses. This year there is a sple over
crop of 1,000 barrels that will grade ninety that injury very frequently occurered fay guns, but said equipment because those haccurling them did not teep hecessary to keep rom least fouliage. He thought it was apple industry, said the speaker, was going lace Ontario
and, notwithstanding that old, orchards will gone, the young trees that have been planted soon he
not being cared for. Imported aure markets. He thought that the deplens are filline orre
had done some good, and said harchards have shoon, a and said that the five umat
annum altogether.
as his subject "Some Orchard Problems," and referre d
to those problems which he as a had had to solve. Which he, as a practical fruit grower, 120 acres is planted to augh, a 450 -acre farated, along odd that a pante to apples, and, while it might which he sometimes thought successfully hold down two jobs in the future must alon her men who teach farming many teachers now, he said, would starve to death He first referred to dean that this was one of the most mion defficult problems settle, and one which fruit growers have had the leas stations will agreè, and amid conficting rosult eriment re inchined to neglect fertilizing. Twenty-five yer ago the State of Massachusetts began experiments not decide the question, but the experiments did show that no matter what fertilizer was used ents did show han nothing. On his own farm the soil was better He illust was mecessary to fertilize wery ten years but blossomed very heavily this year. $\begin{aligned} & \text { Theatively small } \\ & \text { On account }\end{aligned}$ the heavy bloom it was thought necessary to fertilize heavily in order to get size. As a result, 500 pounds
of amophos, a combination of of amophos, a combination of phosphoric acid and nitrogen; 300 pounds of nitrate of soda, and 200 pound
of flue dust (containing applications. The first potash) were applied in three after the blossom, the second one the first week on just and the third one toward the last of July week in July, was a tremendous crop of large and highly-colored fruit valued at $\$ 500$ per acre. The fertilizer cost about $\$ 60$ per acre, and the land originally cost $\$ 25$ per acre.
Everything that is important problem.
the place. Good local markets that can be reached on to deliver fruit the fae nearby, and if it is necessary of the troubles on light land, said Prodelivery. One the question of humus. The only block of land that
would cause his would cause him worry would be one that would not grow weeds. They have tried growing barley and
millet, and have of ground limestone ton from one to two tons per acre cost to them is about $\$ 6$ per ton delitine the soil. The Last year they spent $\$ 750$ for fertilizers, plan to spend $\$ 2,000$. They are now seriously considering suitable methods of live-stock farming for the purare always kept decide to fatten a harnful of wosstibe that they would On roughage grown on the remainder of the from Pxtesears believed a tractor neressary extended acreage, and had narrowed his choice of the Ontario. He had found of which are common in purposes exceedingly valuable and another delivery planning to purchase a lighter truck that would haul Labor, he thought to the packing house and serious consideration caused them more trouble orchard management. The tractor will problems of one teamster, but still the labor prob will dispense with arm houses so thand on Polish labor, and have four have, however, but little can get married men. They because they treat them well. The houses are repaired en ated whenever they need it, and without the to $\$ 2.75$ per day, in addition to free paid, amounting men are ar the land they want for a garden. The man are never docked for time off when sick, but every
mpected to do a full ten hours' work, and is Wways made responsible for a certain part of the work About consumers want red apples
choice for five varieties constitute Professor Sears
and arcial plantation. These are all red
and and are as follows in order of season: Ducse are all red
burg, Wealthy, Mclnten speaker instanced a not sell to the consumer, and the speaker instanced a comparison between McIntosh and
Palmer Greening, both varieties having exced quality. The McIntosh, which is red exceedingly fin high this year as $\$ 15.75$, er barrel a, will sell for a oltained easier than $\$ 4.00$ can be secured for Palmer
Greening. Delicious is gieening. Delicious is also being consider
hight-class dessert apple, following Mc Intosh.
The trees that tome utre to said the speaker, prove a serious handicap the nursery grower. Professor prove a serious handicap to the fruit
IIcrant has had 650 supposedly Stcint hinally tees teveloped out into Wolfe River; 200 Graven-
there Wave budding in the nused town securing trees by toppresent time Mo Multosery, or whi whipgrafting. At the
hundred, and other varieties $\$ 75$. Nure worth $\$ 90$ per
hurs stock is There is no set. important that a good mane prure a a truning; it it is more
pruning be done in March. Young trees are very year, but a in March. Young trees are pruned

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THE FARMER'S ADVOCATE
feet apart.

## and when to Spray apples.

W. A. Ross, Horticultural Experiment Station on in Norfolk County, comparing the Ontario spray schedule with the Nova Scotia spray calendar; also on
three inconclusive experiments with dusting. Mr. three inconclusive experiments with dusting. Mr.
Ross favored very much the Thompson Bordeaux formula ( 3 lbs. bluestone, 10 lbs . hydrated lime, and 40 gallons of water). The bluestone is dissolved over night and is then strained into the spray tank. About two starting the agitator the hydrated lime is then poured in after which the remainder of the water is added and the mixture is complete. At Vineland, lime sulphur Bordeaux mixture. On, Duchess, the lime-sulphur foliage was small and curled, while the Bordeaux foliage was of much better appearance. At Simcoe there was
little difference in the condition of foliage with either Spys or Baldwins: if there was any difference it was in Spys or Baldwins,
favor of Bordeaux. The wadling moth was controlled equally well. Color on fruit sprayed with lime-sulphur
is much brighter and snappier than with Bordeaux is much brighter and snappier than with Bordeaux
mixture. The ideal spray program, which was con mixture. The ideal spray program, which was con curred in by Mr.Caesar, was as follows, for apples: 1 to 7 where San Jose scale is present; 11 to 9 for oyster shell and blister mite, alding Black-l-eaf 40 for aphids.
Second spray (in the pink), Bordeaux mixture ThompSecond spray (in the pink), Bordeaux mixture, Thomp-
son formula, ( $(3-10-40)$, and one pound of powdered arsenate of lead or $21 / 2$ pounds of arsenate of lead paste to 40 gallons of the mixture. The third spray,
when the blossom has fallen, lime-sulphur 1 to 40 and arsenate of lead. The fourth spray, lime-sulphur. Mr. Caesar stated that he was trying to recommend sufficient He stated that the larve of the usualing sufficient. He stated that the larve of the codling
moth do not enter the fruit for three weeks after the bloom has fallen, and that by putting poison in the fourth spray it was possible to reduce the seriousness of this pest by from ten to thirty per cent. The eggs
are laid for the second brood during the first week in August, but a big factor in controlling this hrood is Ane weather.

Macdonald, Agricultural Representative for Lambton County, discussed the fruit situation in his County, and stated that the fruit industry in Lambton
is a fair-sized one and worthy of development, but still is a fair-sized one and worthy of development, but still
in its infancy. The climate is modified by Lake Huron and the general north-westerly slope of the land. A ridge of sandy and gravelly loam runs through the County,
upon which it is possible to grow fruit of excellent upon which it is possible to grow fruit of excellent
quality and type. The peach industry has suffered severely, first as a result of the shortage of labor brought about by the war; second, as a result of the peach-leaf curl in 1916 and 1917, and thirrd as a result of the severe
winter of 1917-18. Small fruits are grown at Thedford winter of 1917-18. Small fruits are grown at Thedford
and Arkona, where some labor can be secured, but there and Arkona, where some labor can be secured, but there
are few specialized fruit growers in the county, all the are few specialized fruit growers in the county , arming.
fruit being grown in conjunction with mixed farming Early maturity, marketing facilities, suitable soil, with resulting quality and color, were said to be the notable features of Lambton fruit
orchard is dead or dying.
p. successful strawberry culture.
P. H. Wismer, Jordan Station, one of the most
successful growers of small fruits in Ontario, spoke on "Intensive Strawberry Culture," and rather than leave out many good points we are printing his address
in full next week A great deal of interesting discussion was created
by Mr. Wismer's address, but unfortunately we have not space to give it here.
small holdings for returned soldiers. "Small Holdings for Profit,", was very fully dis-
cussed by F. C. Keeler, Brockville, who grows thirty varieties of fruits and vegetables on a small acreage
and retails all of his produce to the consumer. Fourteen


W. E. Raney, K.C

years ago he purchased ten acres of land for $\$ 1,300$, and ing in small holdings, and considers the apple a very economical crop to produce. Many farmers, said the speaker, have much too large an investment for their natural, desire whe eve has himself succumbed to the strongly in the possibilities of small holdines for res stuff that will bring the hirhest to produce fancy not believe can be done on a 100 -acre farm. He employs three men, and believes the labor problem can be made much easier of solution by treating employees
considerately considerately. He sees no good, however, in an eightbefore dinner and eight hours after dinner is about the only practicable method still. A good share of his fruit is disposed of to consumers who pick it themselves at a suitable reduction, and Mr. Keeler believes that one of the next problems in fruit growing is to institute
some kind of a cafeteria system whereby the consumer may come to the farm if he desires and get what he wants. Asparagus is the first crop harvested, followed by raspberries, peas, carrots, beets, potatoes, currants, $\mathrm{H}_{\mathrm{H}}$ and is grow cring , wind than one cent per head He prefers strawberties and raspberries to asparagus, and specializes in the Wm. Belt strawberry because of its large size and fancy appearance. The yield of this variety has been raised 4,000 baskets per acre to 8,000 since 1908 . Raspberries 4, ${ }^{4}$ ere all sold for 35 cents per box this year. In 1918 he secured $\$ 1,200$ returns from three-quarters of an acre of strawberries. Since then he has been able to sell
strawberry plants for strawberry plants for twice as nucir as before
promising varieties of small fruits
M. B. Davis, Assistant in Pomology, Central Experimental Parm, Ottawa, discussed some new but not well-known varieties of small fruits that have been speaker first referred to the Portia strawberry originated at Ottawa. Attention was also directed to three varieties of raspberries, Newman No. 23, Brighton and Count, while three varieties of grapes, Lincoln, Mary and Wilkin's Seedling, as well as the Kerry black currant,
were also mentioned. Brief notes on these new varieties will be given later
B. H. G. Bell, Director Soil and Crop Improvement Bureau, Canadian Fertilizer Association, discussed the subject of "Fertilizers for the Fruit Grower" somewhat
briefly owing to lack of time, but summing up his rebriefly, owing to lac
marks Mr. Bell said:
"It seems to me that the most profitable fertilizing practice for your orchard can be determined to quite an extent by a study of the trees themsetves. If the leafage is sparse and the twig growth is indifferent,
there is clear indication of the lack of nitrogen. If on the other hand, twig growth is extensive and a great
deal of leafage and a slow ripening of the crop, there is pretty clear indication of the lack of phosphoric acid. Undersized apples, insipid in taste, and fruit and trees susceptible to disease indicate a marked ack ravely soil As a general rule you will find sandy or gravelly soli
short of all three of the plant food constituents, and orchards on such soils will naturally require more abundant feeding than were they found on richer loam
soils. Fertilizers will not spraying or pruning or proper soil tillage, nor will fertilizers take poor varieties and produce good results from them.
The Niagara Grape Growers Association, which was organized this year, was the subject of a paper read by Jas. Livingston, Grimsol
history of grape growing since 1907 , and pointed out he inconsistencies of grape prices in the intervening years from the standpoint of the grower. The speaker poill ensure a parity of prices in different parts of the will ensure a parity of prices in criferent parts of the
grape-growing district. Arthur Craise, St. Catharines


Harry Mills
discussed the relation between the grower and the canning factories, and pointed out that many unfair should be removed. A small committee was appointed take up this matter with the factories

A number of resolutions were passed at the fina session on Friday, which are summarized herewith
It was carried unane It was carried unanimously that the Provincial and
Dominion Governments be asked to take some step that will retain in Canada the services of the best men many of whom are finding more lucrative opening outsice of the country after having got their trainini here. It was also decided that the Directors should investigate the feasibility of holding a National Apple other resolution asked that the Dominion Governmen call a fifth Dominion conference of fruit growers, and if a National Apple Show be held, that the conference be held at the time of the show. A resolution was also ment Employment felt that women and girls would be seriously needed for fruit harvesting in 1920. The convention concurred in a resolution prepared by a special committee of the Florist's Association that a National Council of Hortirepresentatives to such a council. The Board of Directors was empowered to reconsider the method o electing directors, and to report at the next annua convention on the question of electing directors acco
ing to districts furnishing the greatest

## DIRECTORS.

The election of Directors resulted as follows: DIS-
TRICT 1: Renfrew, Lanark, Carleton, Russell and Pres RICT $1:$ Renfrew, Lanark, Carleton, Russell and Pres Glengarry, Stormont, Dundas, Grenville, Leeds and and Aden J. C. Neeler, District 3: Lenno Ireland Wdington, Hastings and Prince Edward, R. W. Durham, Peterboro and Vict 4: Northumberland and Durham, Peterboro and Victoria, H. Sirett, Brighton District 5: Ontario and York, W. J. Bragg, Bowman-
ville District 6: Peel and Halton, C. R. Terry, Clarkson; District 7: Wentworth, David Allan, Grimsby District 8: Lincoln, A. Craise, St. Catharines; Dis TRICT 9: Elgin, Norfollk, Haldimand and Welland Jas. E. Johnson, Simcoe; District 10: Kent, Essex and Huron and Bruce, H. K. Revell, Goderich; Distric 12: Brant, Oxford, Perth, Waterloo, Wellington and Dufferin, J. F. Elliott, Oxford Centre; District 13 Grey, Simcoe, Muskoka, Parry Sound, Nipissing . A. C., Professor J. W. Crow; Horticultural Experi ment Station, Vineland, E. F. Palmer

## FARM BULLETIN.

The Farmer-Labor Cabinet.
All guessing in regard to the personnel of the nev Ontario Cabinet came to an end at 11 a.m. on Friday
of last week when Mr. Drury and his chosen lieutenant were sworn into office at the Government. House Toronto. Subsequent to the ceremony, the new Minister betook themselves to their offices in the Parliamen Buildings, where they received their first experience a Government was first made known on Thursday, afte W. F. Nickle, of Kingston, had declined the Attorney Generalship, on account of personal reasons, and W, E Raney, K. C., Toronto, had accepted. The Cabine was then con
Manning W. Doherty, who presides over the Depart ment of Agriculture, was born in 1875 at the family homestead, Clontarf Farm, Peel County. Clontar


Walter Rollo

H. C. Nixon, B.S.A.
having been purchased from the Crown in 1815. After
preliminary training at the Colleriate Preliminary training at the Collegiate Institute and in 1892, and graduated in 1895 . His Mis Master's Degree in agriculture wac obtained at Cornell Master's Degree in received his aprointment as Asso iate Pro essor of
Natural Scienee it Natural Science at the O. A. C. in 1898. While there speaking; incidentally, Premier Drury was a member of
that class. Connections that class. Connections with the College were severed engaged in business. Since then unt 1912 Mr. Doherty was voted himself to Clontarf Farm and its Clydesdales
Holsteins and Yer Cabinet has as thorough a grasp of member of the in hand as has the Minister of Agriculture. He has not had Legislature experience, that is true, but his technical training, as well as practical experience, combined with the knowledge gained of Ontario's rural him admirarly for the portfolio. U. F. O. director, equip R. H. Grant, of Carleton, who is to be the new
Minister of Education, is a university man fional matters. W F E Refore, should be broad in educaGeneral, is a well-known To, K. C., the new Attorney has got acquainted with him,largely through his activitic in combatting race-track gambling and as solicitor for the Ontario Branch of the Dominion Temperance the youngest member of the Cecretary, H. C. Nixon, is O. A. C., and a successful farmer in North of the Peter Smith, the Provincial Treasurer, reprecant, South Perth. He is fairly new in the ranks of the U.F. down finally on the an able man. Before settling Beniah Bowman, from Manitoulin a school teacher, minister the Department of Lands and is to ad in the Legislature during the last session, being first elected at a by-election. He was originally a native Bay for some time. The has been farming at Gore established by an Act of Legislature. In the past it has been lined up with Lands and Forests: whe past it separated, Harry Mills, of Fort William, will taly Forge. Mr. Mills is a locomotive engineer by trade. For seven years he has a been member of the Board of
Education at Fort William,


Manning W. Doherty, M.A., B.S.A Minister of Agriculture.
he was"Chairman of the Board. F. C. Biggs, Minister public service in his own county of Wentworth, where
he has been twice elected hes had training at the O Warden by acclamation. He farm. Walter Rollo, of Hamilton and operates a large farm. Walter Rollo, of Hamilton, who like Mr. Mills, trade and of Scottish ancestry; the Department of Health
The Personnel of the Cabinet
Premier and Preside
Minis Manning Witure
Manning W. Dohert
R. H. Grant.
Attorney General
W. L. Raney, K.C
H. C. Nixon.
H. Satary
Provincial Treasurer
Peter Smith
Minister of Lands and Forests
Beniah Bowman
Minister of Mines-
Harry Mills.
Minister of Public
Minister of Health and Labor-
Minister Without Por
Lt.-Col. D. Cartfolio
and Labor will be his to administer. The Minister
without Portfolio, Lieut-Col. D. Carmichael
D. D. S. O., saw four year's service at the front. In C., Legislature he represents centre Grey. It is rumored
Hydro Electric Power Commission given a place on the
four ex-students of the that the new Cabinet number
aill



Founded 1866

$\underset{\text { Minister of Public }}{\text { F. Biggs }}$
while other members of the Cabinet have had univèrsity Owing to the fact that forty-five days must elaps from the time the Cabinet is sworn in before writs can be issued for by-elections, it is evident that the Legislature cannot convene until well on towards the first of
February. In February. In the meantime, the Cabinet will have
time to prepare their program and policy for the future

## Victory Loan Went Over the Top

 responded to the appeal to buy Victory way Canadians amount mentioned in the buy Victory Bonds. The evey reason to belien, but at time of writing there is doubled. Throughout the entire camt will be more than of enthusiasm was in evidence, both in rural good deal centres. While the cities have piled up a big total the of the countic have fallen short. In fact, many objective. All classes of considerably surpassed their millionaire manufacturer, have from the newsboy to the a crowning success. The larger cities have surnassed the race for first by many millions. At time of writing ec for first place is between Toronto and Montreal.Sir William Hearst's Message ment, Sir quitting office to make way for the new GovernI "In retiring from office I have nothing to add to what I have already said, save that I recognize heartily and
gratefully the staunch surpor gratefully the staunch support for good measures which
the Government has received during its from the great majority of the during its term of office "It has been an honor and a privilege to serve this great Province, particularly during the strenuous war
period through which period through warticularly during the strenuous war
future prosperity and have have just passed, and the future prosperity and happiness of Ontario will be my
dearest wish."
coal Asa $r$ esult of the recent strike
in Outners in the United States, all the bituminous seized by the either in transit or in storaminous coal embargo has also been Fuel Administrator. A federal from Calada all coal shipments


# Toronto, Montreal, Buffalo, and Other Leading Markets <br> Week Ending November 13 

\author{


391 sheep, received during
ing petiod of 1918 .

## Winnipeg

Receipts of stock were about even through-billing amounted to thirty-four hundred and eighty-eight head. Of the through-billed stock, a large proportion plants and the remainder on export to Reloium. Stockers sold from 95.50 89 to $\$ 10.25$.

## Buffalo.

Cattle-Cattle market, with receipts considerably lighter than for former walf higher, all week at Buffalo, on best grades of shipping steers and the more and less desirable butcher grades sold about steady, while on canner and cutter Buff, prices looked 15 to 25 cents lower. Bade was had and on the better grades of milk cows and springers prices ruled firm. There was a ar better undertone to the trade than has been for some weeks past, and good of Canadians totaled around Supply for the week and included the best shipping steers offered, top for these reaching \$16. Offerings for the week totaled 7,125 head, as against 8,325 for the previous week, and as compared with
10,975 head for the corresponding week year ago. Quotations:
Shipping Steers, Natives.-Very choice heavy, $\$ 16.50$ to $\$ 17$; best heavy, over 1,300, $\$ 15.50$ to $\$ 16$; fair, over $1,300, \$ 13$ good, 1,200 to $1,300, \$ 14$, $\$ 15$ to $\$ 15.50$; good, 1,200 to $1,300, \$ 14$ to $\$ 15$; good, $\$ 11.50$ to $\$ 12$.
Shipping Steers, Canadians. - Best heav, $\$ 14.50$ to $\$ 16$; fair to good, $\$ 13$
to $\$ 13.50$; medium weight, $\$ 12.50$ to $\$ 13$; common and plain, $\$ 11$ to $\$ 11.50$.
Butchering Steers.-Yearlings, fair to prime, $\$ 14$ to $\$ 15.50$; choice heavy, $\$ 14$; fair to good, $\$ 11$ to $\$ 12.50$; light and common, $\$ 9$ to $\$ 10$.
Cows and Heifers.-Best heavy heifers,
$\$ 11$ to $\$ 11.50$. $\$ 11$ to $\$ 11.50$; good butcher heifers, $\$ 9.25$ to $\$ 9.75$; light, common, $\$ 6$ to $\$ 7$ very fancy fat cows, $\$ 10.25$ to $\$ 10.75$ best heavy fat cows, $\$ 9.50$ to $\$ 10$; medium to good, $\$ 7.50$ to $\$ 9$; cutters, $\$ 6$ to $\$ 6.50$ Bulls.-Best he
oord butchering $\$ 0, \$ 10.25$ to $\$ 10.50$ gor butchering, $\$ 9.75$ to $\$ 10$; sausage
7.25
Sto Stockers and Feeders.-Best feeders,
$\$ 9.75$ to $\$ 10.25$; common to fair, $\$ 8$ to $\$ 9$;
 Milkers and Springers.-Good to best,
small lots, $\$ 100$ to $\$ 150$. in carloads $\$ 00$ to $\$ 100$; medium to fair, small lots, $\$ 80$ $\$ 70$ to $\$ 75$. Hogs.-Market was erratic last week grades were made on a basis of $\$ 15.50$ with a few good hogs bringing $\$ 15.60$; T15.75, with better weight brought up to $\$ 15.40$ and $\$ 15.50$; Wednesday's market was fifteen cents to a quarter lower Thursday lights and, pigs brought up to y at $\$ 14.75$, and Friday the landed most moved at $\$ 15.25$, with lights and pigs going at $\$ 15.50$. Good roughs sold at $\$ 12.50$ and $\$ 13$, and stags ranged from 11 down. Receipts for the past week 26,701 head for the week previous, with 26,701 head for the week previous, and
44,700 head for the same week a year ago. active all of last week, and a good clear top was had from day to day. Monday culls going from $\$ 11.50$ down, Tuesday's trade was steady, Wednesday's market
was a quarter higher, and Thursday and culls selling from $\$ 12$ down. $\$ 14.75$, with lambs, of which there were only a few the best natives. Sheep remained steady all week. Wethers were quoted up to
$\$ 9.50$, best ewes ranged from $\$ 7.50$ to $\$ 8$, and cull sheep $\$ 3$ to $\$ 5.50$. Receipts
for the past week were 28,800 head,
being against 25,121 head for the week
before, and 17,100 head for the same week a year agó. week showed top veals selling at $\$ 19$, with culls going from $\$ 15$ down, ThursFriday the bulk made $\$ 21$ to $\$ 20$, and the latter part of the week brought up to \$16. Few weighty fat calves sold above $\$ 12$, with some rough kinds landing around $\$ 8$, and few grassy kinds reached
above $\$ 6.50$ and $\$ 7$. The past week's receipts totaled 3,300 head, being against 3,854 head for the week preceding, and 2,000 head for the corresponding week a year ago.

## Toronto Produce

Receipts of live stock at the Union November 17, Toronto, on Morday, cattle, 351 calves, 5,902 hogs, 7,740 sheep and lambs. Strong active market. Heavy steers 50 cents higher, but choice steers and heifers 25 to 50 cents higher; top,
$\$ 13.50$ per hundred for forty-one steers averaging 1,200 pounds each. cows 25 to 50 cents higher.
ows, bulls and calves steady. Sheep with bulk at $\$ 13.50$ to $\$ 14$, $\$ 14.10$, $\$ 17.75$, fed and watered.

Breadstuffs.
Wheat-Ontario (f.o.b. shipping points according to freights)-No. 1 winter, per
car lot $\$ 2$ to $\$ 2.06 ;$ No. 2 winter, per car bt, $\$ 1.97$ to $\$ 2.03$; No. 3 winter, per car lot, $\$ 1.93$ to $\$ 1.99$; No. 1 spring, per car lot, $\$ 1.99$ to $\$ 2.05$. No. 2 . 3 spring, per car car lot, $\$ 1.95$ to $\$ 2.01$. Manitoba, No. 1
northern, $\$ 2.30$; No. 2 northern, $\$ 2.27$. northern, $\$ 2.30$; No. 2 Morthern, $\$ 2.27$;
No. 3 northern, $\$ 2.23$. Manitoba Barley.- (In store, F
William), No. $3, \$ 1.471 / 2 ;$ No. 4 C. W (not quoted); rejects, $\$ 1.32$.
Oats.- Manitoba (in store, Ft. William No. 2 C. W., $851 / 2$ c. ; No. 3 C. W. W., $831 / 2 \mathrm{c}$.
No. 1 feed, $811 / 4$ c.; No. $2,791 /$ co No. 1 feed, $811 / 4 \mathrm{c}$. No. $2,791 / \mathrm{cc}$.
Oats.- Ontari, (according to freights American Corn - (Track, Toronto prompt shipment) No. 2 yellow, $\$ 1.82$
No. 3 yellow, $\$ 1.81$ Barley.- (According to freights out
side), malting, $\$ 145$ to $\$ 1$. side), mating, $\$ 1.45$ to $\$ 1.48$.
Peas.- (According to freights outside No. 2, $\$ 2.50$.
Buckwheat.-(According to freight
outside), $\$ 1.31$ to $\$ 1.23$ outside), $\$ 1.31$ to $\$ 1.33$.
Rye.-(According to freights outside) Flour-Manitoba, Government stand ard, \$11, (Toronto); Ontario; (in jute bags, prompt shipment). Government
standard, $\$ 9.50$ to 9.60 , Montreal and Toronto.
Millfee
freights, bags included - Bra, Montrea $\$ 45$; shorts, per ton, $\$ 52$; graod feed flour
bag, $\$ 3.25$ to $\$ 3.50$. Dag, $\$ 3.25$ to $\$ 3.50$. Haranto), No. 1 per ton, $\$ 25$ to $\$ 26$; mixed, per ton, $\$ 18$ to Straw.-(Track, Toronto), car lots per
ton, $\$ 10$ to $\$ 11$.

## Hides and Wool.

Prices delivered in Toronto:
City Hides.-City butcher hides, green veal kip, 45 c . ; lamb skins and shearlings $\$ 2.75$ to $\$ 3$. cured, 35 c . ; green, 30 c .; deacon and bob
calf, $\$ 3.60$ to $\$ 5$; horse hides, count calf, $\$ 3.60$ to $\$ 5$; horse hides, country
take-off, No. $1, \$ 10$ to $\$ 12$; No. 1 lamb skins and shearlings, 75 c . to $\$ 2$; horse Wool.-Unwashed fleece wool as to
quality, fine, 40 c . to 60 c . Wool, washed Country Produce.
Butter firmed slightly on the whole-
sales during the past week, advancing 1c. sales during the past week, advancing 1 c .
per 1 b ., selling as follows, wholesale 64c. per lb.; cut solids at prints selling at 62 c . to 63 c . per
1 b .; and best dairy at 60 c . Eggs kept stationary in price, with doz.; selects at 63 c . per dozen; and No. s. Pure lard was dozen.
Puier in price, wholesale selling at 28 c . per 1 b . in tierces; 283 cc c .
per 1 b . in $20-\mathrm{lb}$. pails, and 30 c . per 1 b .
Honey.-Choice comb, $\$ 5$ to $\$ 6$ per
dozen, strained, 25 c , to 26 c , per l .
Poultry.-Receipts were heavy and
Poultry.-Receipts were heavy and
prices practically stationary on all lines.

The following quotations are for live whickens, 20 c . to 23 c . per lb.; ducklings, 20 c . per lb .; old ducks, 15 c . per lb .; hens under 4 lbs .; 15 c . per lb . Hens 4 to 5
lbs ., 18 c . per lb . Hens over 5 lbs ., 23 c . per lb .; roosters, 15 c . per lb .; geese, 18c.
Wholesale Fruits and
Both thetables. Both the orange and lemon markcts prices materially declined
Apples kept firm on choice quality fruit. Poor grades being difficult to dispose of.
Onions and Potatoes-Onions kept quite firm at the existing high prices,

Wholesale Quotations
Apples.-Western boxed, $\$ 3.15$ to $\$ 4.50$
per box; Ontario boxed, $\$ 1.60$ to $\$ 3.25$ per box; Ontario and Nova Scotia barrels,
quarts.
$\$ 4.50$ to
quarts.
Grape
 $\$ 8$ per keg; $\$ 4.25$ to $\$ 4.75$ per lug.
Pears.-Imported, $\$ 5$ to $\$ 6$ per box. Pears.-Imported, $\$ 5$ to $\$ 6$ per box;
domestic, Keiffers, 25 c . to 50 c . per 11 qts.; better varieties, 75 c . to $\$ 1$ per 11 qts.
Tomatoes. $-H 0 t-h o u s e ~ N o . ~ 1 ' s, ~$ per lb.; No. 2 's, 25 c . per lb.
Beets.- $\$ 135$.
Beets.- $\$ 1.35$ to $\$ 1.50$ per ba
$\$ 2.50$ per bli to $\$ 1.25$ per bag, $\$ 2.25$
Carrots.- $\$ 1.10$ to $\$ 1.25$ per bag.
Cauliflower.- 50 c. to 75 c . per dozen.
Celery.- 50 c. to $\$ 1$ per dozen; $\$ 2.7$
Celery. -50 c. to $\$ 1$ per dozen; $\$ 2.75$
$\$ 3.50$ and $\$ 4.50$ to $\$ 5$ per case. Cucumbers.-Hot-house, $\$ 3$ per dozen Lettuce-Cal. Iceberg, $\$ 6$ per case
Canadian Head at 80 c . per doz. Leaf 30c. per doz.
Onions. $-\$ 6.50$
to
$\$ 7.50$
per sack of 100 lbs.; $\$ 5$ to $\$ 5.25$ per 75 lbs . ; Spanish,
 Parsnips- $\$ 1.40$ to $\$ 1.50$ per bag.
Turatoes.- $\$ 2.35$ to $\$ 2.40$ per bag. Turnips- -90 c . to $\$ 1$ per bag.
Seeds.-Alsike: Following are th prices that wholesalers are paying a
country points per bushel: No. 1, fancy
$\$ 25$ to $\$ 26.50$. country points per bushel: No. 1, fancy
$\$ 25$ to $\$ 26.50 ;$ No. 1, $\$ 23$ to $\$ 23.50$
No. 2, choice $\$ 22$ to $\$ 22.50$. No. 2, choice, $\$ 22$ to $\$ 22.50$; No. 2,
$\$ 21$ to $\$ 21.50$, No. $3, \$ 17$ to $\$ 17.70$ rejected, $\$ 10.40$ to $\$ 14$.

## Montreal.

Horses.-The horse market is at
tracting no attention fust now. Heavy tracting no attention just now. Heavy
draft horses sell at $\$ 250$ to $\$ 300$ each, weighing 1,500 to $1,600 \mathrm{lbs}$. each; light draft, weighing 1,400 to 1,500 țbs., $\$ 200$ to $\$ 250$ each; light horses, $\$ 125$ to $\$ 175$ culls, $\$ 50$ to $\$ .5$ and saddle and carriage animals, $\$ 150$ to $\$ 250$ each.
somewhat aga.- The mild weather is
hogs and the market has been quiet at 25 c . per lb . for abattoir dressed hogs and light country dressed sold at $211 / 2 \mathrm{c}$.
Poultry.-The market for poultry will probably become more active from this Dressed turkeys were $q$ becomes colder. 44c. per lb., chickens 20 to 28c.; ducks, 30 c . to 34 c . and geese 22 c . to 24 c . per lb .,
Potatoes.-The market for continued a little uncertain. Supplies of Quebec stock were fairly large and the quality is good, but these remarks do not apply to Green Mountains to the same little of the latter potatoes are available. quoted at $\$ 1.80$ web white stock were for smaller lots, in store, the price was $\$ 2$ to $\$ 2.25$ per bag.
in pound sections, was qumb honey, 25 c . per lb ., while white clover strained was 18 c . to 20 c . in $30-1 \mathrm{~b}$. pails and bucksyrup was scarce at 30 c . to 35 c . per
gallon tin Eggs.-The price of fresh-gathered
eggs continued to mount and there is no telling where it may go. The pro-
duction is light and receipts is of rather the bulk of the
Fresh gathered stock was 75 c . to 80 c c. per
doz, selects 64 c., No. 1 stock mas soc.
and No. 2 stock, 550 . Butter.-The price of butter continued unchanged during last week, this being could be said. Pasteurized of which this $631 / 4$ to $631 / 2 \mathrm{c}$. per 1 b ., finest creamas being $621 / 2 \mathrm{c}$. to 63 c ., fine creamery, $611 / \mathrm{c}$ to 62 c ., and finest dairy 57 c . to 58 c, per 1 b . and prices are firm, being 30 c , to loght 31 c per lb.
basistrack Meats were quoted car for No. 2 Canadian Western per bushe and for Nov. shipment from Ft . Widlisit While No. 3, were quoted at 97 c ., extra No. 1 feed being $971 / 2 . \mathrm{c}$, No. 1 feed being 96 c. , and No. 2 feed, $931 / 2 \mathrm{c}$. In
store, No. 2 Canadian West $971 / 2 \mathrm{c}$.; No. 3 were $951 / \mathrm{c}$ c.; tough were 3 were 94c., and No. 2 feed, 92 c .
Flour.-Manitoba spring wheat flour was steady at $\$ 11$ per bbl., in jute bags, ex-track, Montreal freights or to city bakers, with 10c. of for spot cash $\$ 10,60$ per bbl. cotton was $\$ 10.50$ to corn flour was $\$ 9.80$ to $\$ 9.90$ per bbl and rye flour $\$ 8.25$ to $\$ 8.50$, in jute.
Milfeed.-The market for millieeds was easier, owing to increased offerings. Bran was quoted at $\$ 43$ to $\$ 43.50$ per ton, some some werht $\$ 1$ to $\$ 2$ per ton more. There is some demand for export to the United States.
Baled Hay.-Sales of car lots of good $\$ 23$ to $\$ 24$ per ton, N. 3 being $\$ 21$ to $\$ 22$ and clo
$\$ 20.50$.
Hides.-The market was steady, 33c. per 1 b . for steer and cow hides, and
25c. for bull hides, veal skins being 75 c per lb., and kiss 50cal skins being 75 c . unchanged at $\$ 2.60$ each and clipped $\$ 12.50$ each.

## Chicago.

Hogs.-Heavy, $\$ 14.10$ to $\$ 14.50$;
medium, $\$ 14.10$ to $\$ 14.55$; light, $\$ 14,10$ to $\$ 14.55$; light lights, $\$ 14.25$ to $\$ 14.50$; heavy packing sows, rmooth, $\$ 14$; packing sows, rough, $\$ 13.25$ to $\$ 13.50$; pigs, $\$ 14.24$ to $\$ 14.75$
Cattle.-Compared with a week ago: Beef steers, mostly 50 c . to 75 c . higher. She-stock, 25 c . to 50 c . higher; bologna canners and cutters mostly 25 c . higher; veal calves mostly 50 c , higher; best grade stockers and feeders 50 c . to 75 c . up; common grade stockers steady
higher; Western 25 c . to 50 c . higher. Sheep-Compared with a wee'z ago:
Fat lambs, big, 25c. h'gher; sheep, strong, to 25 c . higher; feeders steady.

## Victory Bonds.

Following were the values of Victory Bonds on the Toronto market Sautrday, 1922, 10014: Victory Bonds maturing 1923, 10014; Victory Bonds maturing 1927, 1021/4, to 1021/3; Victory Bonds maturing 1937, $1041 / 2$ to 1043 /4.

## Sale Dates.

Nov. 26, 1919.-Elgin County Holstein Nov Woodstock, Ont.-Holsteins Dec. 2, 1919.-David Caughell, R. 8 Thomas.-Holsteins, farm stock, etc. Dec. 2, 1919.-Wm. Steen, R. R. 3, horns. Dec. 3, 1919- Niagara Peninsula HolDec. 10, 1919_Hon Peter Smith, Sebringville, Ont.-Holsteins. Dec. 12, 1919 Ontario Hereford Breeder's Association, Guelph, Ont.
Dec. 17, 1919.-Oxford County Holtein Breeders' Club semi-annual sale at Dect. 18, Ont. - Southern Counties Ayrshire Breeder's Club Sale at Woodstock, Ont.
Dec. 18, 1919.-Brant District Hol-


## Make Firm the Peace.

Now, in this morning of a nobler age Though night-born eyes, long-taught Would still delay the world's great Make firm, OO God, the peace our dead have won.

For Folly shakes the tinsel on its head, And points us back to darkness and Cackling 'Beware of visions,' while our Still cry power.
All that this earth can give they thrust
They crowded all their youth into an
And, for' one fleeting dream of right,
h, if we fail them, in that awful
trust, The Daily Mail, London

Training Young Canada For Parliament.
$A^{\text {LL over Ontario and the West, }}$ have been elected to the Legislature. If If they make good, that is,
"play fair" for the whole country and "play fair" for the whole country and
fot $2 \| l$ classes in it, - as we confidently fot all classes in it,-as we confidently
expect-they have probably entered the expect-they have probably entered the
halls of Government to stay. Now, sitting in Parliament requires ability. If a member is to be anything more than a mere figurehead, he mus nust be able to express himsomes. He nust be able to express himself fluently
and to "think on his feet." For lack of these qualifications many a man fine ideas has been obliged to sit silentand the country has suffered. Or he out-generalled by some out-talked and good run of the tongue, but who is, deas are concerned.
Of course practice is one of the secrets of good speaking. When a man has enough of it to get rid of stage-fright
and become unselfconscious he is in a nd become unseltconscious, he is in à
position to say what he really thinks in he best say what he realk tinks in For this reason, during the coming winter, the country districts, as never before should have speaking, speaking everyhhere. Debates and literary societies row apace "dinners" should become ashionable and toasts encouraged-now that they must be drunk in cold water there is no danger of befuddled brains herefrom. And everywhere it should speak, not read, their addresses. By such ways is real talent discovered. There is no saying what genius for oratory
nd administration a single winter of such and administration a single winter of such practice may not develop, or reveal.
Nor will such occasions stop with Nor will such occasions stop with
training
men to
to express
themselves: hey train, also, the power to think. When a man has to get up a speech he has to inquire oll around his subject;
there must be no weak spot in his argument if he can prevent it. After a ittle practice of this kind he will be efinite form and his faculty for seeing into things growing. . Again, when he takes part in a debate he finds it necessary
aneet argument with argument-a expresses his thought shall pass muster capital , mental exercise. The post of As the child grows, ss the man will be.
"critic," at a debate, is an equally good exercise: one that develors equally gbod while the opportunity to judgmen reply to a toast invites the grace that should come at such times. Indeed dinners and other social functions are a
distinct help to everyon distinct help to everyone who wishes
to acquire conversational whil ease in "mixing ") with peorle. The touch of conviviality breaks stiffness and loosens the tongue; opinions are inter changed, and the ripple of repartee
set going.--It is not a diffiult set going.--It is not a difficult matter to
hold banquets in the rural districte, and this form of coming together socially should be encouraged. There is no necessity to have a luxurious spread emphasizing too much the eating part of the entertainment, all that is required
is to have the usual
g good super of of the country, attrackively served, with especial attention to the decoration, and the
speckes the speeches at the end the real feature of the So much for training of the grown-ufs in public speaking. But is it not ad-
visable to begin and
vit in public speaking. But is it not ad-
visable to begin much sooner, even in
the the lower classes of the public schools? One would not suggest turning the hot
school lunch, so persistently and advisedly school lunch, so persistently and advisedly
advocated these days into advocated these days, into a barquet
with spieeches-the children need the greater part of the noon-hour for play; but might not a part of every. Friday afternoon be fiven to asking a child, here and there, "- hat do you think about sa-andaso - and advancement of the child, and the answers to be given by him on his feet. Is it not safe to say that children so rrained will find little embarrassment, later in hire, when called upon to propose a toast at a wedding, or to voice an
opion in a political meeting? an
Of course, it is taken for granted that the Of course, it is taken for granted that the
teacher shall insist absolutely that the teacher shall insist absolutely that the
language with which the young speaker
may get into the Legislature, and the consciousness of being able to speak properly will be a great comfort as well

At this point it may be well mark that that in all this training, whethe the rural club, it is well to make in subjects rather easy for the first time or two. For instance if you ask a young speaker, the first time he stands up to thinks his community needs tell what he provement, he is much more likely make a fair attempt than if you require him to give a dissertation on the League of Nations or a pronouncement on the ponderful, however, how quickly young people progress when the necessity to speak comes frequently enough; often in the course of a few weeks they surprise hemselves as well as their friends.

Perhaps it may seem that this article is a men's" article, written almost
solely for men; but not so. If you will pause to think about it you will know that
very often Literary Societies. very often Literary Societies, Debating
Clubs, etc., are started by women and Clubs, etc., are started by women and
girls. Men don't always "bother" about such things. They are interested in the Farmers Clubs, it is true, but there they talk chiefly about live-stock and farming ers" adds politics,-another excellent idea and one hitherto much needed in Canada. There remains, however, a whole range of subjects untouched by these Associathons and likely to be left untouched if
the women and girls make no move to the women and girls make no move to subjects, and those which deal especially with community life-as necessary, surely,
for their effect upon thought and senti-
ment, as others of more practical nature Besides, the social side of life must by no means be neglected. It is necessary girls, to meet frequently at path rings in which the crowd can "mix up" informally rounded out life of every community and every individual. Folk must not become "queer" because of being too much alone, nor communities backward or lack of social opportunities. It is not sufficient that one or two sides o
human nature be developed: sides must be if the individual or the community is to become the all-round personality that most closely approache: personalities as distinct as see have individuals. They may be, on the whole, progressive or backward, cultured or uncouth, intellectual or ignorant; social or unsocial, idealistic or grovelling,- and are often spoken of as such.
But, to return to our moutons.-In all
his work of "starting things ${ }^{\text {i }}$ women and girls of starting things" women to carry out. In these days great part, all subjects for their province they take so-it is right that they should be in terested in politics and farming, -yet it would be a sorry day for the world If women were to turn away from the social graces and social opportunities which do so much towards smoothing and laddening life.

November is now well past. The winter is passing. If you have no neighborhood, get something going as soon as possible sand, by all means, begin with a banquet or other social gathering. Who knows but that, in your rittle neighborhood may be to-day a of this Dominion? Give him a chance o begin his training withqut further


Mr. Asquith at the League of Nations Union Meeting On the 13 th of October the inaugural meeting of the national campaign of the League of Nations Union was held at the Mansion House. The chief aim of the Union is to stecure the whole-hearted dacceptance by Great Britain of the principles of the League of Nations, and to
form a strong backing for British delegates to the League. The photo shows : The LLord Mayor of London and Mr. Asquith standing,

## The Fashions.

## How to Order Patterns

Order by number, giving, age or
measurement as required, and allowing
at least ten days Also state in which issue pattern ape Reared. Address Fashion Department The Farmer's Advocate and Home Magazine' London, Ont. Be sure to sign your name when ordering patterns,
Many forget to do this.
When ordering, please use this form:Send
Post Office
County.....
Number of Pattern.
Age (child or misses' pattern)
Measurement-Wais pared...
3038-3040. A Stylish Costume.
38, 40,42 and 44 inches bust meat 6 , skirt 3040 cut in 6 Sizes: $22,24,26,28$ 30 and 32 inches waist measure. The entire dress will require 8 yards of 42 skirt measures about $12 /$ yard size. The TWO separate patterns 10 cents FOR EACH pattern.
2679. Girls' Dress

Cut in 4 sizes: 2, 4, 6 and 8 years material. Price 10 cents.
3049. Ladies Cover-All Apron. 36-38; Large $40-42$. all, 32-34; Medium, 44-46 inches bust measure Size Medium, requires $45 / 8$ yards of 36 -inch material.
Price 10 cents.

3043: Girl's School Dress,
Size 10 in 4 sizes: $8,10,12$ and 14 years Size 10 requires $33 / 8$ yards of 44 -inch
3033. "T

Cut in 3 sizes" Dress
Size 18 requires: 53,18 and 20 years. material. Width of skirt at lower edge is $13 / 4$ yards. Price, 10 cents.
3061. Doll's Set

Cut in 5 Sizes for Dolls: 16, 18, 20, will require $5 / 8$ yard of 36 -inch. Size 18 for the dress, $5 / 8$ yard of 40 -inch material for the cape, and $1 / 2$ yard of 20 -inch
material for the bonnet. Price, 10 cents.
3035. Girl's School Dress.

Cut in 3 sizes: 12,14 and 16 years.
Size 14 will require $51 / 8$ yards of 27 -inch Size 14 will require $51 / 8$ yards of 27 -inch.

3032. Ladies' House Dress.

and 46 in 7 itches bust measure $34,36,42,44$ requires $53 / 8$ yards of 36 -inch material Width of dress at lower edge is about 2
2970. A Set of Pleasing Toys for
the Nursery.

Cut in 1 size. Either style requires
$3 / 4$ yard of 27 -inch material $3 / 4$ yard of 27 -inch material. Price, 10
cents.
退 $-\sqrt{6}$
3036. A Popular Style.

Cut in 7 sizes: $34,36,38,40,42,44$ requires 55 , yards of 44 -inch Size 38 The dress measures lower edge with plaits extended. Price,
3042. Girl's Dress.
3042. Girl's Dress.
Cut in 4 sizes: 8 , 1012 and 14 years. Size 10 requires $41 / 8$ yards of 27 -inch
3037. A Practical Model,
3037. A Practical Model.
Cut in 7 sizes: $34,36, \quad 38,40$

Cut in 7 sizes: $34,36,38,40,42,44$ requires $57 / 8$ yards of 36 -inch Size 38 Width of dress at lower edge is about $21 / 4$ yards. Price, 10 cents.
3053. Child's Dress.

Cut in 5 sizes: $1,2,3,4$ and 5 years. material. Price, 10 cents.
2733. Misses'. Dress,

Cut in 3 sizes: 16,18 and 20 years. Size 16 will require $37 / 8$ yards of 44 -inch
material. The dress measures yards at the foot. Price 10 cents.
3034. A Popular Style.

Cut in 4 sizes: $2,3,4$ and 6 years, Size 4 requires $25 / 8$ yards of 44 -inch
2766. Ladies' Apron.

Cut in 4 s sizes: Small, 32-34; Medium 44-46 inches bust and Extra Large, requires $37 / 8$ yards of 36 -inch material.
The Sleeve Price, 10 protectors require $3 / 8$ yard

3044. Misses' Dress

Cut in 3 sizes: 16 .
Size 16 will require $31 / 2$ yards of 44 . inch material. The skirt measure 42 ( Price, 10 cents. $1 \% / 3$ 3059. Girls' Dress.

Cut in 4 sizes: $4,6,8$ and 10 years,
Size 10 requires $31 / 2$ yards of 44 -inch.
material. Price 10 cents. 2709. L

Cut in 7 sizes: $34,36,38,40,42,44$
and 46 inches bust measure
requires $61 / 2$ yards of measure. Size 38 The skirt measures about $21 / 4$ yards at 2657. Child's 10 cents.
2657. Child's Short clothes Set.
Cut in 5 sizes: $1,2,3,4$ and

Size 4 requires: $31,2,3,4$ and 5 years.
Size 4 requires $31 / 4$ yards of 27 -inch. material for the dress, $13 / 4$ yards for
the petticoat and $27 / 8$ yards for the combination. Price, 10 cents. 3046-3048. Business Costume. 38 , 40,42 and 44 inches bust measure.
Size 38 will require $25 / 3$ yards material. Skirt 3048 will ry ards of 36 -inch $24,26,28,30,32$ and 34 inches measure. Size 24 requires for a one-piece skirt, $25 / 8$ yards of 48 -inch material if cut trial if cut lengthwise . With-inch maback seams- $21 / 4$ yards. With front and will be required if cut with front edgias straight, and $23 / 4$ yards if front and back edges are cut bias. The Skirt measures separate patterns 10 cents foot. TWO 3051. Girls' Coat

Cut in 5 sizes: 6, 8, 10, 12 and 14 years. Size 12 will require $41 / 4$ yards of 3045. Ladies' Envelop cents. 3045. Ladies' Envelope Chemise,
Cut in 4 sizes: Small 36-38; Large, 40-42; and Extra Large, 44-46 inches bust measure. Extra Large, requires $25 / 8$ yards of 36 -inch material. 3062. Boudoir

36-38. 44-38; Large, $40-42$; and Extra Large, requires $5 / 8$ yard for the cap, and $33 / 8$ yards0 the sack, of 32 -inch material. Price,

## The Windrow

An attempt is to be made to grow "The old woman who lived in a shoe
must have been a pretty well-to-do old woman."-Cincinnati Times-Star.

About 500 co-operative societies are
working full force in the Republic to reduce the Czecho-Slovak living. The branch societies are of centrated in a Central Union, and co-
operation in the disposition of food,
clothing and shelter operation in the disposition of f
clothing and shelter is dealt with.
A Health Campaign conducted by inaugurated recently in China. China now has $400,000,000$ population, on an average, although $16,000,000$ die every year; the campaign, which is likely to in ten years. Already baby clinics somewhat similar to those with which we are acquainted, but more spectacular

Representatives of the organized working women of twelve countries opened
the first international working women's congress in history in Washington, D. C. to formulate the program of legislation want recommended by organized labor want recommended by the international
labor conference soon to be held under
the provisions of the Peace Treaty, Business men of Great Britain, France, have formed a World Trade League brotherhood which will consider mutual interests. Each country in the League
of Nations, will be entitled to send two of Nations will be entitled to send two
representatives. It is believed that this
Trade Trade League may help, by
the causes, to eliminate war

Founded 1866

indrow

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Working women's
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November 20, 1919

## Hope's Quiet Hour.

## God is Listening.

Then they that feared the Lord spake
often one to another; and the Lord often one to a nother; and the Lord hearkenec, an was written before Him
remembrance
for them that feared the Lord, and that thought upon His Name.-Mal. 3: 10 .
A beautiful soul, reaching up through A beautiful soul, reaching up through the silence to whisper to the heavenly
Father, said: "O Holy silence, O Thou quiet God. and then went on:

Up to Thine ear our lips; we would ha Loud as the angel-host,--ah! do we les,
, and my brothers in the wilderness?",

God may seem to pay no attention the wrongs endured by His children on
earth. He hides Himself behind a veil of mysterious silence and allows tyrants to trample the helpless beneath their
feet. Put His silence does not mean feet. Put His silence does not mean
indifference. Long ago the comforting hessage was sent to a nation crushed by the affliction of my people. . and have heard their cry by reason of their task-
masters; for I know their sorrows: and masters; for I know their sorrows; and We are easily deceived by
We are easily deceived by appearances. have believed that Jesus was the Son God, if the Father had interfered to save Him from agony and death. Both of God. They could not understand why He was silent if He loved the dying
Man who claimed to be His beloved Son. Yet those hands nailed to the awful
Cross were free to reach up to the close Cross were free to reach up to the close
embrace of the Father, and that dying cry embrace of the Father, and that dying cry
of unfaltering trust was spoken into the God's plans for His s
are far greater than they can wndersten as they pray for swift relief from pand He is sometimes silent, but it is the silence of wisest love. He sees the soul,, -and He cares! We can grow strong in spirit if we are confident that God knows
and cares.
After all, we care more for making a called "Life" than we do for present cest and eat the bread of cand latef, take the sake of future gain; and they don't grudge the price if they "win out,
and "make good." Yet, only too ofte" the reward fails to satisfy; and men
discover, when the opportunity has passed by, that it has been frittered away to ilttle purpose. Let- us try to trust
God's silence, knowing that He will heip us to make the most of life's op-
portunity. We share His nature, and, with the achievements whally satisfie to Him. How disappointed we shall be
at last if riches, we have only won temporal and weakness to the real life poverty
God mead. what is really of priceless value to His
own children.
"Which were better when the Night ends To have dreamed in fruitless slumber, to Or to have lain supine and gross, That heals a multitude, of men?-The
Palace or the Cross?"
But our hearts instinctively seek joy,
Happiness is our natural element, and
we need not wait until this life is aver we need not wait antural hilement, ind is over
to claim the Divine gift. In the Presence
of God is fulness oft in the
 in tribulation.
There is a story told of the great
muscian, (iounor, that. he was going
throut, through the streets of Paris one Christmas
Eve ant saw a poor old mant feely
playiny on a muspor
to gain an fical instrument, trying to gain, few copper coinent, froming the
passersby, Gounod sugested to his comPanions that, they should sing for him.
Chrisemler," he said, "that it is

THE FARMER'S ADVOCATE
may be amongst those who listen to us
to-night. Therefore let us do our tost They did their best, and money poured
in for the poor man, who asked the names of his benefactors, and
was told that they, were called "Faith
Hope and Charity, The and charity.
The other day I was at a meeting in
connection with the Forward Movernent were given Iliterature to distribe who the homen of their neighbors, were advised to kineel down before they started making
visits and ask God to make use of them and teach them what to say
We are apt to think that we only need
to do this when we are called to do "church work," and so we miss the daily gladness of God's everyday companion
ship in everyday work. A little boy son of one of our readers - - ${ }^{\text {aid he wanted }}$
to go to heaven to "help God do his
chores." Isn't it remember that God came down thing to because He wanted to help His children
with their "chores." I like that homely with their "chores. ITike that homely
word which is so constantly used in the word which is so constantly used in the
homes of our Canadian farmers. God doesn't want to be treated as a a visitor
and "entertained in the parlor." He wants to be "at home" in the houses o
His busy children His busy children, and be allowed to help.
them in the commonplace "chores." Because He is listening we mures. We don't like an honored guest to heat us speak crossly or complainingly. Those who are depressed in face and manner in the ordinary home circle, usually flash A woman's voice may sound weary and mournful when she speaks to her own family. Then the telephone bell rings and she goes to answer the 'phone.
Instantly there is a change. The tone and the words have a cheerful sound. Even the face will be brightened with a smile, although the listener cannot see
her face. Especially will this be the her face. Especially will this be the
case if the unseen listener be a prized friend. The speaker cannot see him and he may be miles away, yet the re-
minder of him brings sunshine into the heart and face and voice of a discouraged .
Look up in the face of the Great Friend,
and surely your bright smile will answer and surely your bright smile will answe ing that He is listening; and gladness
will ring out in the tones of your voice. Remember, also, that our Lord identifies Himself with His brethren. If we
speak rudely to them we are guilty of speak rudely to them we are guilty of
rudeness sowards IIim; if we are kind to the children or the downtrodden, He says: "Inasmuch as ye have done it unto
one of the least of these My brethren one of the least of these, My brethren,
ye have done it unto Me., The little kindness and slight neglect when they are shown to our King. Let
us make Him welcome, so that He may feel at home in our houses. Shall we Guest, iust because work is pressing?
He is willing to give wonderful help in our work if we will only turn to Him.
After all, the work-if it is, worth doing is not our work but Gods. He workmen, obeying His orders.
A famous French pastor of the 18 th century was not satisfed with inviting
God to live with him, but chose the church God to live with him, but chose the church
to be his home. He was accustomed to spend hours there on his knees, "bathing in the flames of love which issued from
the Divine Presence." The smile on his face, as he took the daily services,
was 5 o heautiful that his flock were was so beautiful that his flock were
filled with amazement. It seemed to them that he "saw our Lord"" Many
thousands of people came to his village thousands of people came to his village
home for spiritual help and guidance. Often there were crowds outside the
cturch all night, waitiny to speak to this
friend of Christ. His influence for good friend of Christ. His intluence for good
was very great, because he was like a
wive wire -in continual contact with
Infinite Power. He was iust a man, Infe wire Power. He was iust a man,
Infint Pod worked throush him. For
but
practical living, that is the secret-an open secret. Our powerlessness is the
conseruncece of being too busy to spend
time with God.
 cobbler said: "Every shoe I mend is to
mee Christ's own. What a joy life
would be if we always remembered
to be mended, the dishes to be washed were in reality "Christ's own!"
If youn are weary of the monotony "Think softly, soul, thy Lord is there, Dora Farncomb.

## Gifts for the Needy <br> Two gifts for the needy reached me to-day, a dollar from "a Lucknow friend", a and two dollars from "Puslinch

 friend.". Three parcels of papers for the"shut-in" also arrived this week. II will ons as soon as possible. West Ave., Toronto

## The Ingle Nook

## 

 it in a stamped envelope ready to be bene, place
(4) an.
answers to oune ouetions to to appear.
anis department for

DAR Ingle Nook Friends.-After
Conventions of any kind there is always a great deal to talk the benefits of these Indeed that is one of organizations-that they supply something to think about and talk about that is not mere gossip. Of late years many and some people fear we are in danger of over-organization, but I do not think so, at least so far as the rural districts are concerned. Any sensible farm wo-man-knows when she is over-taxing herself, or neglecting anything of consequence by connection with such things, and she can always withdraw. The weak spot of the old way was that women shut
themselves up too completely with their own little affairs. It was a case of "me and my wife, my son John and his wife, we four, thank the Lord; no more.'
A mere glance at the work of the Women's Institute alone is sufficient to show how vastly superior it has been for the women and those who know most about it say that the homes have not suffered, new interests and new opportunities for learning modern methods in housekeeping that have come with the Institute. The U. . W. is comparatively a young organization, but already it, too, is
doing splendid work, although, perhaps, emphasizing a somewhat different line A dear little friend of mine who has been living "down south" for the past
year blew into my den the other day. Her husband, an officer in the U. S. army ittle genius in mathematics) had been doing business for a big produce company that supplied the military camps, and the beauty of the southern cities-the wide boulevarded streets with flowering ashioned houses, the look of easy culture everywhere; she spoke enthusiastically
of the beauty of the women, their pretty faces, soft voices and gentle manners; then "Bhe stopped you know," she said, "they haven't enough to do. The men down men. The women have everything done for them; they just sit on verandahs
most of the time, wear pretty clothes, do fancywork, read novels and talk about They were always marvelling to the way
I worked and asking me if all the Northern "I'd like to go back," she added, presently, "I loved the south and its
people, and I liked doing the strenuous work 1 did there. At the same time,"
rather wistfully, "you Northern women
have derper interests. You always seem have deeper interests. You always seem
to have something worth while on the go.
You don't spend much time gossiping." more than before, the value of "keeping
something worth while on the go," and
that in this way, organizations for the public good stand first. Lonking back over the years since the
Women's Institute was founded, it
appearš that its efforts have gone in bi waves, as it were, each of which reached
its climax in the discussions, the settled down quietly to work, white another came on. The first one years
and years ago when the one Convention Cookery and household accomplishment The next was for the Mecical Inspection
of schools-a movement now so well afoot that it will not stop until every section Ontario, yes Canada, will be covered and the fourth, just now beginning to gain momentum, is for Community anything and everything that brings the people together in bring those things that will make the communit happier, more sociable, better-all-
round place to live in. Glancing along its possibilities large order only debating societies and neighborhood convivialities, but also health campaigns lecture courses, tree-planting days, mar keting plans, community concerts, community movings, picture shows-this last Oreshadowed in the fact that at the recent W. I. Convention in London one for censorship of the movien end ecessity couragement of a wider use of educational One really can't see how all this can Halls, and it was pleathout Community Halls, and it was pleasing to hear at th several Institutes have already begun, one way and another, to raise money for at Blyth, Among these were the branche one or two other places whise names I can't remember. It should be glad by the way, if some of these branches would
write a description of their method of raising funds and send it to me for publiog tion in the Ingle Nook. Such letter might be a great help and inspiration to Community Wall but do not have a know how to go about raising the money It seems to me that an idea should have: (1) A good auditorium viith a roomy stage and dressing-rooms. (2) A big basement with well-equipped
kitchen. (3) A cloak-room (4) for storing the seats when the floorson of the auditorium is needed, and the tables (occasionally needed for banquets at other times. Ideally the auditorium
should have pictures, curtain that will drop, a big fire-place on a few armchairs (to transfer the place into rest-room when needed), book-case magazines, and a big reading-table Community Library adjoining have the Speaking of drop curtains re of a funny incident. Upon one occasion in a little Northern town, the then Attorney-General of Ontario, Mr. I. B had some part in the program, wa lad some part in the progran, was
siting on the front seat, and, near her,
a daring little schoolboy who had ventured a daring little schoolboy who had ventured
up thus far. There was a very clums up thus far. There was a very clumsy
drop curtain with a huge wooden ulle at the bottom of it, in connection with the stage, raised, of course, for the iscasion. By some fault in the mechan-
isme
just
before the Attoney-General unroll. Slowly, down and curtain began to above the speaker's head, came th ponderous roller. Talk about the sword consternation. My sister watched in some genius behind the scenes to see to it abo so the school-boy, He hopped excitement, then called out.
In the interests of "'nuts" fer yer nut! ou build your Community' Hall, see to Just here, in places where Churcl the disused taken hold, might not one o of its ecclesiastical appendages, remodelled completely, and so turned into a Com-
munity Hallu? It could sarcely be put
to a better use, and the saving in expensa Oh, I see your benutiful hall- -and don't orming a home for your Institute Farmer's Club and other meetings,
will long a host of interesting things
to your community,-better movies, and
concert companies, and lecturers. Abov influence an interest in them; there is $n$ spiring. more educative or more in-
stimulater $r$ or nlsect or will be stimulated to "getting up" things.
Perhaps it will start a dramatic club Perhaps it will start a dramatic club class drama, as the "Janey Canuck" will go in for sing-songs, or for a "Music and Art" society; occasionally there may be a dance. The old prejudice against dancing is gradually fading away, these now, especially since it is the fashion wouldn't it be fine if more attention were paid to folk-games and all those pretty dances where each dances alone? jection to round and other "partner" dances where the crowd is all right, but which the arms take a part as well as in feet,-they are so very graceful, and grace and symmetry. The Highland in and Irish lilt are fine, so is the sailor's hornpipe; but I think the prettiest thing I ever saw in my life was a dance of young white gowns, and carried long, floating flowers, and as they went in sinuous curves about the stage the rhythmic movement of their bodies and arms formed a perfect poem in action. In Maetervery pretty figures.-Do you "the Dance of the Hours?". . . In darcing schools such as that carried on
by Mrs. Somers in. Toronto, girls taught all of these "single" dances, even may remember the beautiful entertainment put on at Toronto Exhibition evening performance two or three years ago, when hundreds of young dancers
went through the "Highland" step, Irish lilt and sailor's hormpipe. I was told afterwards that all of them were girls. The minuet and pavanne at Jubilee
Park (Eaton's store) last summer were
also danced by Mrs. Somer's pupils.

OW lest you may think Junia is
becoming altogether too gay and ve been a more serious subject distressed friend who has been deputed to
buy some books for her community library. She wants to know what is Unfortunaty in recent fiction. busy to read many books of fiction this busy to read many books of fiction this
I have I have made note of some that I have seen written up in "The Independalways found it pretty safe, so far as my own taste goes, to try anything
mended by these two publications.
I find the following among the titles Fiction "، C
by the author of "Elizabeth Columbus, German Garden" (Doran Pub. ${ }^{\text {Co., }}$ Johan Bojer (Moffat, Yard \& Joseph Hergesheimer (Knopf Pub Page \& Co., Long Island, N., Youbleday
in Quest of His Youth ; Conrar in Quest of His Youth," by Leonard "The Undying Fire", H. G. Wells (Macmillan's); "Mary Olivier,", by May Sin
clair; "The Gay Dombeys," by Sir Harry Johnston; "The House of the Marry
Star," Frances Millar; and in the humor ous section; "The Life of the Party,
our Irvin Cobb (Doran Puby "Ma Pettengill,", by Harry Leon Wilson
(Doubleday Pub. Co., Long Island, W. Y ) (Doubleday Pub. Co., Long Island, iv.
"Deep Waters," by W. W. Jacobs. But why stick to fiction? Biography cinating - at least to a greare many people. Among the newer books I
find quite highly recommended by my "authorities," "Burns, How to
Know Him," by William Allan Neilson:

 merson (Houghton, Mififin

Fonimore Cooner's bor the older boy
 Island" and "Kidnapped." These are, of course, old books, Among the new, ones
are The children's Fairy Land," by
Hantiet N. Y.), and "The Children's Life of the Bee," by Maeterlinck (Dodd, Meag, \&
 Houghton, Mumin $\&$ Co., Boston) is
said to be very interestion Anyone who wants to get up children's "Children's Plays," by Adsessary help in Appleton \& Co., N. Y.)
Among the new books written by
Canadians are:
"Canada's Sons and Great Britain in C. M. G. (Thomas Allen Pub. Co., Tronto, $\$ 3.50$ )-
"Through St. Dunstans to the Light," by Pte. Jas. Rawlinson (Thomas Allen, Montgomery; "Golden Dicky," by Mar shall Saunders; ""oan at Halfway," by Glen," by Marian Keith. "The Touch
of Abner," by H. A. Cody; "Mist of Abner," by H. A. Cody; "Mist of "Bulldog, by Isabel Ecclestone MacKay; "Janet of Kootenay," by Evah M. Fraser; (The last eight are published by McClelland \& Stewart Pub. Co., Toronto.) book is '" A . Alfred E. Uren. Bob and Bill are two on a hill in who live in a brush pil to travel to the Pacific, and start off The story is written in rhyme and very
well illustrated. The book is published by the Musson Co., Toronto is pubice $\$ 1.2$ nearest bookstores, write to the publisher nearest bookstores, write to the publishers
for catalogue and prices.

Convention a strong in closing. At the London Convention a strong plea was put for
ward in behalf of Canadian writers
Canadian writers Canadian writers are grateful for al such kind interest, but I am sure they do not wish especial coddling. They want writers, standing or falling according to their merit. It is fine to give Canadian authors a place on your bookshelves, but
do not do so to the absolute exclusion authors of other nationalities. To do so is to become provincial, narrow, and, to a certain extent, uneducated. Imagine Jerome K. Jerome, E. V. V. Galsworthy, Walpole, Joseph Conrad and May Sin John Ervine and Kath English! Or St because they are Irish! Or Blanco Ibanebecause he is a Spaniard! Or Masterlinck
because he is a Belgian! Or J. M. Barrie because he is a Belgian! Or J. M. Barrie
because he is Scotch! Or Doestoevsky and Turgenev because they are Russians!
Or Ernest Poole, Winston Chum and Mary Roberts Rinehart because they belo'ng to the United States.
be narrow. My friends.- Do not let us even one's own country; a good thing is
a good thing wherever one finds it; and Canadian writers are too big to want to
be especially coddled.

## Keeping Geraniums.

For J. T. C., Waterloo Co., Ont.
If the cellar is not too dry geraniums may be kept by taking them up, shaking
the soil off the roots, and hanging them up "heads down," in a cool, dark part. plants in the window. Some leave the of the cellar, letting the soil dry out
almost completely. The leaves will drop
off but new growth will staet water plants are brought will start when the
three months rest.

## Worth Thinking Over

 Books are splendid Christmas qifts "1 never, won any thing withoutchildren, and one is alwals sald in hard labor.".-Theodore Roosecell.


The Cookery Column Mock Cherry Pie.
 mape segrar , fatime hour Boil all together stirring in the flour teasp. vanilla and a when cold add 1 teasp. vanilla and a little extract of
almond. Bake with 2 crusts.

Sour Cream Pastry
$1 / 2$ cups flour, $\quad 1 / 8$ teasp. socla $1 / 2$ tablesp. salt, sour cream.
Wet the flour with , just enough cream o make a firm dough.

## cup cornmeal, <br> Corn Bread.

cup flour, $\quad 1$ teasp. salt, teasps. baking $\quad 2$ tablesp. shorten-
powder, 3 tablesps. sugar ing,
tilk, dry ingredients in a bow. add the milk, melted shortening, and beaten egr Bhallow wand pour into a well-greased, 25 minutes. Bake in a hot oven about

## Stuffed Potatoes.

Scrub the potatoes with a brush, rub
with butter and bake. Break 4 of then fine. Add 1 tablesp melted and mash $1 / 4$ cup grated cheese, nearly $1 /$ teat salt, pinch of pepper and enough milk. to beat into a soft fluffy mixture. Refil the shells, brush over with melted bacon at, dust with pepper and brown in oven. Holland Red Cabbage
Slice red cabbage and soak in cold tablesp. Shortening, $1 / \frac{1}{2}$ teasp. salt, 2 sprinkle of nutmeg and few grains of Add 2 tablesps. vinegar, 1 teasp juice and 2 tablesps. sugar, and cook 5
minutes longer. Chop fine and serve minutes longer. Chop fine and serve

## Kitchen and Furnace Fires

 overslip to put on when attending to the hands, dusty hair and soiled cloughened be prevented. Don't forget to keep the water-pan in the furnace filled, also, if of water on each. This will prevent moreover rooms are too dry for health, there is enough moisture in the when Another fuel-economy is to shut the oven so that the heat will be thrown down it will burn well, To start a fire so that or partially cross each other in such way that a free current of draught upunder the fire causes it to burn, and the under a fire and a cold one flowing burning freely. will keep any fire from flues and other flues freep all the ovenand be sure that the house is well-ventilated. If coal is used never red. Never use coal-oil, poured from ap can or other vessel, to start up a smoulddeath may he the result. If possibly
must be used must be used, pour some on the end
of sticks of kindling, quite away stove under the built-up fuck, applying a match if necessary: Where the carefully trained child
learns bad manners is a to its watchful parents. These anxious propounding this query, but generally
without result. Once in ever, nut of the deep silence comes an Johnyy furnished. one just the other lay. He had just one fust the other
arly toothsome a particu-
arsh of apple pudding which toothsome dish of apple particu-
whe
despite at the table, he deltiberately pas company
his saucer and licked ited up "Johnny!'" exclaimed his mother, after horrified exclaimed his mother, after
owho did you ever see
" "C thing like that?"

## Serial Story

## "His Family

(Serial rights reserved ERST Poole. $\begin{gathered}\text { bye Farmers Adpoale } \\ \text { and Home Magazine.) }\end{gathered}$
Synopsis of Previous Chapters. The central figure in this story is story begins. He had grown when the country, but at seventeen had drifted business, became fairly fratly got into ried, and became fairly prosperous, mar-
daughters: Edithe the father of three daughters: Edith, who, when of the story and is the too-devoted mother of yoars, children; Deborah, then mother of four of one of the big schools of principal and Laura, the wild, capricious one, city; announces her engagement to a young-
man named Sloane. With time, at last man named Sloane. With time, at last,
to rest somewhat on his oars, Roger Gale finds himself, at sixty, a somewhat lonely widower living a life apart from that of
his children. He realizes suddenly that deteres not even know them. He determines to "find them out," and the
story is carried on in a interesting way. Chaprer fascinatingly conversation between Deborah and a father, in which her suspicion of young
Sloane as a suitable life-partner for Sloane as a suitable life-partner for Laura
is unconsciously is unconsciously intimated. The father is worried, and, to distract him, Deborah
takes him to a concert in Carne from which they go to Edith's for supper The talk turns on the approaching marriage, and Edith says Deborah may find Laura has gone. Roger a feels that the home may be given up, and that this Laura's VI. tell of the busy time preceding Laura's wedding, and the birth of Edith's
child. Looking into his children, Roger sees, character of start of surprise, himself-his youthful self in Laura's burning curiosities and
venturesome spirit, his later self in Edith's dropping of all outside interests and craving to keep only to her own family.
He realizes the truth of his wife's words He realizes the truth of his wife's words,
"You will live on in our children's lives." CHAPTER VII.
In the weeks which followed, Roger
found the peace of his home so interruoted and disturbed by wedding preparations that often retreating into his den he that a man with three he was through, was a fool to show any sympathy with the utter folly of their lives. Yield n inch and they took a mile! It began "Now, dearie, I think you had better make up your mind to give Laura just And Roger weakly agreed to this, but as time wore on he discovered that the kind of wedding Laura liked was a thing
that made his blood run cold seemed to be no end whatever to the voung bride's blithe demands. The trousseau part of it he didn't mind. To the gowns and hats and gloves and shoes and trunks pouring into the house, he made no objection. All that, he considered, was fair play. But what got on Roger's
nerves was this frantic fuss and change! nerves was this frantic fuss and change!
The faded hall carpet had to come up, his favorite lounge was whisked away,
the piano was re-tuned while he was trying to take a nap, rugs were beaten,
crates and barrels filled the halls, and one whole bed-room stripped and bare wedding presents were displayed. In In shumfe his box of cigars disappeared. And Deborah was as bad as the bride. At times it appeared to Roger as though at his poor old house, which wore and air of mute reproach. She revealed a part of amazement. Every hour she could spare or other at home-with an eager glitter shee said. eyes. Fiddlesticks it and for Labbish! She did it because she liked it!
In gloomy In gloomy wrath one afternoon he
went up to see Edith and quiet down. but was well on the way to recovery, only found fresh troubles. For sitting
up in her old-fashioned bed, with an up in her old-fashioned bed, with an old-ashioned cap of lace upon her
shapely little head, Edith made her
father feel she had washed her hands of the whole affair

## al Story

## Family

 Previous Chapters.
figure in this story is
$y$ years of age when the s.an servereen wo in tioied


THE FARMER'S ADVOCATE
"I'm sorry," she said in an injured
tone, "that Laura doesn't care enough tone, that oldest sister to put off the
about her old
wedding two or three weeks so I could be there. It seems rather undignified, think, for a have loved to make it the dear simple kind of wedding which mother
would have wanted. But so long as she doesn't care for that-and in fact has only found ten minutes-
run in and see the baby-" In dismay her father found himself
defending the very daughter of whom he had come to complain. It was not such a short engagement, he said, he had
learned they had been engaged some time learned they had him. "When I was engaged I made Bruce go to you before I even let him-" here
Edith broke off primly. "Of course that was some time ago. An engagement, adays. They 'experiment' till they feel and get married in a wee She is rushing it "I admit," Roger
soothingly replied. "But she has her "Paris in June," said Edith, "sums up in three words Laura's whole conception
of marrage. You really ought to talk of marrage. You really ought to talk
to her father. It's your duty, it seems to me
"I'd rather not tell you." Edith's glance went sternly to the cradle by her
bed. "Laura pities me,"," she said, "for
having had five children "Oh, now, my dear gi
"She does, though-she said as much. When she dropped in the other day and I tried to be sympathetic and give her
a little sound advice, she said I had had
the wedding I liked and the kind of the wedding I liked and the kind of
married life I liked, and she was going to have hers. And she made it quite
plain that her kind is to include no plain that her kind is to include no
children. It's to be simply an effort to
find by 'experiment' whether or not find by 'experiment' whether or not
she loves Hal Sloane. If she doesn't-"
Edith gave a slight but emphatic wave she loves H
Edith gave
of dismissal.
"Do you mean to say Laura told you
that?" her father asked with an angry
frown. "I mean she made me feel it-as
plainly as I'm, telling it! What I can't
understand." his daughter went on, understand," his daughter went, on,
"is Deborah's attitude in the affair."
"What's the matter with Deborah?", inquired Roger dismally. 'Oh,' nothing's the mater with Deborah. nothing's the mater with
She's quite self-sufficient.
She at least can play with modern ideas and keep her head while she's doing it.
But when poor Laura-a mere child with the mind ideas, applies them to her vaguely at such ideas, applies them to her
own little self and risks her whole future criminal for Deborah not to interfere! ""Deborah believes," said her father, "That's rot,", was Edith's curt reply,
"Do I lead my own life? Does Bruce?
"No," growled Roger feelingly.
"Do my children?" Edith demanded. 'I know Deborah would like them to. to run a school where every child shall sit with a rat in its lap or a goat, and do
just what he pleases- follow his natural
bent, she says up to the mountains and practice on my
children. I should hate to break with Roah," Edith ended thoughtfully. comforting idea entered his mind that take out his collection of rings and care-
fully polish every one. But even this fully polish every one. But even this
hope did not stay with him long.
"With Laura at home," he heard Edith continue, "you at, least had a
daughter to run your house. If Deborah

## "She won't!'" cried Roger in alarm. "If she does," persisted Edith,

if she begins any talk of the kind-you
come to me and $I$ 'll talk to her!"
Her father walked in silence, his head
Her father walked in silence, his head
down, frowning at the floor.
"It seems funny," Edith continued,
"that women like mer "that women like me who give children
their lives, and men like Bruce who are building New York-actually doing it all
the time - have so little to say in these modern ideas. I suppose it's be cause
we're a little too real." "To come back
Roger subgested.
dear," his daughter said compassionather "I'm afraid it's going to be a 'mere form When you get so you can't endure
come in and see me and the baby." As he started for home, her words
of warning recurred to his mind Yes, here was the thing that disturbed confusion, the part which had to all th himself. It was bad enough to know was about to settle her fate at one throw, was about to settle her fate at one throw
But to be moved out of his house bag and
baggage.! Roger strode street
had said. And he meditated darkly on this: "Maybe I will and maybe I won't How does Edith know what her mother liked? We had our own likings, her mother and I, and our own ideas, long
after she was tucked into bed. And yet she's always harping on 'what mothe to know-right now-is what Judith
would want if she were here!" With a pang of utter loneliness amid these vexing problems, Roger felt it
crowding in, this city of his children's crowding in, this city of his children's
lives. As he strode on down Broadway an old hag selling papers thrust one in headline. Some bigwig woman re divorced. How about Laura's "experiment"? A mob of street urchins nearly
upset him. How about Deborah? How about children? How about schools, God? Was anyone thinking? Had any one time? What a racket it made, slambanging along. The taxis and motor masses of people swept endlessly by masses of people swept endlessly by, as dinners or their jobs, their movies, roaring
farces, thrills, their harum scarum dances farces, thrills, their harum scarum dances, clothes. A plump little fool of a woman, her skirt so tight she could barely walk was it, he told himself, the whole city was high-heeled! No solid footing anywhere!
He turned into a less noisy street.
What would Judith want if she were here? What would Judith want if she were here? she would undoubtedly wish him to have a talk with Laura now, find out if she'd really made up her mind ndt to have any
children, and if so to tell her plainly that she was not only going against her God though Judith had been liberal about any number of smaller things, she had been
decidedly clear on this. Yes, he must talk to Laura.
"that Edith put me," he reflected, If only his oldest daughter would leave
the other girls alone! Here she was planning a row with Deborah over whether poor young George should be allowed to Play with rats! It was all so silly! each one of them going her separate way. thought, for at least it would stop their wrangling. But again he pulled himself up with a jerk. No, certainly Judith stood for anything, it was for keeping the family together. It had centre of their last talks before she
His face relaxed as he walked on, but in his eyes was a deeper pain. If only
Judith could be here. Before he reached home he had made up his mind to talk with Laura that very
night. He drew out his latch-key, opened his door, In the hall they were putting down the new carpet. Cautiously picking his way upstairs, he inquired for
Laura and was told she was dressing for
linner. He knocked at her door.
"Yes?" came her voice.
"It's I," he said, "your father."
"Oh, hello, dad," came the answer
gaily, in that high, sweet voice of hers.
"1'n frightully rushed gaily, in thatlo rushed. It's a dinner
II'm frightully
dance to-night for the bridesmaids and dance to-night for the bridso of relief.
the ushers." Roger felt a glow
"Come in a moment, won't you?" What a resplendent young creature she was, seated at her dresser. Be thread was
the maid with needle and
swiftly mending a little tear in the flufly swiftly mending a little tear in the fluffy
hlue tulle she was wearing. The shaded blue tulle she was wearing.
light just over her head brought a shim-
mer of red in her sleek, brown hair.

What lips she had, what a bosom. She
drew a deep breath and smiled at him. "What are you doing to-morrow night?"
her father asked her. evening filled and crammed right up to the wedding,"' she replied. "No-the
last evening I'll be here. Hal's giving his last evening I'll be here. Hal's giving his dear" "Good. I want to talk dear." He felt his voice solemn, a great
mistake. He saw the quick glance from the luminous eyes,
"All right, father-whenever you like." The few days which remained were a crowding confusion of dressmakers, gowns at all hours. . As a part of his resolve to do what he could for his daughter, Roger But all he could do was to unpack boxes take out the presents and keep the cards, and say, "Yes, my dear, it's very nice. array of presents grew, from time to time ment ring upon Laura's finger. And al the presents seemed like that. They would suit her apartment beautifully.
He'd be glad when they were out of the The only gift that appealed to his fancy was a brooch, neither rich nor new,
a genuine bit of old jewelry. But rathe a genuine bit of old jewerry. But rather
to his annoyance he learned that it had been sent to Laura by the old Galicia Jew in the shop around the corner. It ship which had existed for so long between the old man and his daughter.
And as she turned the brooch to the light And as she turned the brooch to the light
Roger thought he saw in her eyes anticipations which made him uneasy. Yes she was a child of his. "June in Paris-
other Junes-"experiments"- no children Again he felt he must have that talk But, good Lord, how he dreaded it. mantled and made new and strange. It was the night before the wedding Laura was taking her supper in bed. What was he going to say to her? He
ate his dinner silently. At last he rose said. Deborah quickly glanced at him. "What forr" she asked.
"Don't stay long," she admonished him. "I've a masseuse coming at nine oclock to get the child in condition.
to rest., Her nerves are rather tense, you know."

How about mine?" he said to himself I've got to tackle it.'
Laura saw what he meant to say the
moment that he entered the room, and moment that he entered the room, and
the tightening of her features made it all the harder for Roger to think clearly, to remember the grave, kind, fatherl
which he had intended to tell her
child, but of what's coming after that-解 mouth, for although he did not look at her he had a quick sensation as though he had struck her in the face.
that? Just now? When I'm nervous
"II know, I know." He spoke hurriedly, humbly. "I should have talked to you it's better late than never"" selish. But
"You needn't tell me anything! I know more than you think-I know enough!" Roger logked at her, then ather breathless: "I know what I'm doing-exactly-just when you were young-it's different-we talk of these things.; Harold and I have
talked it all out." In the brief and dangerous pause which followed Roger
kept looking at the wall.
"Have you talked - about having children?", "Yeame the answer sharply, and "Yes, came the answer sharply, and
then he felt the hot clutch of her hand.
"Hadn't you better go now, dad?" He hesitated. "No," he said. His voice was low. "Do you mean to have children, Laura?" "I think you do know. Do you mean dilating, were fixed defiantly on his own. He made a desperate she replied.

Yhat he could say to her. Good God
how he was bungling! Where were al his arguments
"How about your religion?" he blurted "iI haven't any-which makes me do "You haven't!" His voice had sudit was like a voice from the heart of New "I mean you won't you have a child! It's what you needit'll fill your life! It'll settle you-deepen "'Suppose I don't
down!" The girl was almost hysterical you we Puritan-I want to live! I tell like Edith-and we're We're not all mothers! We want to live!. And we have a right to! Why don't you go?
Can't you see I'm nearly crazy? It's my last night, my very last! I don't what I'm saying! And you come and try to frighten me!" Her voice caught and
broke into sobs. "You know nothing broke, into sobs. You know nothing
abotit me! You never did! Leave me alone, can't you-leave me alone!" abrupt and stern, heard Deborah's abrupt and stern, outside the door, in blind fashion out of the room and down to his study. He lit a cigar and smoked wretchedly there. When presently Deborah appeared he saw that her face was set and hard; but as she caught the his eyes, her own expression softened. "Poor father," she said, in a pitying
way. "If Edith had only let you alone." "I certainly didn't do much good." oh, so much more harm than you know Into the quiet voice of his daughter crept a note of keen regret. wanted to make her last days in this house a time
she could look back on, she could look back on, so that she'd
want to come home for help if ever she's in trouble. She has so little-don't you see?-of what a woman needs these days. She has grown up so badly. Oh, if you'd
only let her alone. It was such a bad, only let her alone. It was such a bad,
bad time to choose." She went to her father and kissed him. "Well, it's over
now," she said, "and we'll make the best now," she said, "and we'll make the best
we can of it. I'll tell her you're sorry and try to forget it has happened."
For Roger the morrow went by in a whirl. The wedding, a large church affair, was to take place at twelve o'clock. He arose early, put on his Prince Albert, went
down and ate his breakfast alone down and ate his breakfast alone. The
waitress was flustered, the coffee was burnt. He finished and anxiously wandered about. The maids were bustling in and out, with Deborah giving orders pellmell. The caterers came trooping in. The up to Roger's room. That place was soon a chaos of voices, giggles, peals of laughter. Laura's trunks were brought downstairs, and Roger tagged them for the ship, one saw them into the wagon. Then he strode distractedly everywhere, till at last he was hustled by Deborah into a taxi waiting outside.
"It's
Eaid It's all going so smoothly " Deborah said, and a faint sardonic glimmer came
into her father's hunted eyes. Deborah was funny!
Soon he found himself in the church. He heard whispers, eager voices, heard
one usher say to another "God what a one usher say to another, "God, what a
terrible head I've got!" And Roger glared at him for that. Plainly these youngsters, all mere boys, had been up tense. She smiled at him and squeezed his hand. There was silence, then the organ, and now he was taking her up
the aisle. Strange faces stared. His jaw the aisle. Strange faces stared. His jaw
set hard. At last they reached the altar. set hard. At last they reached the altar.
An usher quickly touched his arm and he stepped back where he belonged. He listened but understood nothing. Just words, words and motions.
"If any man can show
ey may not be lawfully joined together they may not be lawfully joined together,
let him now speak or else hereafter forever hold his peace."
No," though Roger, "I won't speak." face, and at the look in her steady gray tears in his own.
At the wedding breakfast he was gay to a boisterous degree. He talked to strange women and brought them food, took
punch with men he had never laid eyes

on, went off in a feverish hunt for cigars

came back distract girls and even started joked with young dancing. The whole affair was over in mo tush . he bride and the groom came | cushing downstairs; and as trey escaped |
| :--- |
| from the shower of | them down the ster steps. Roger ran apter Sloane's hand. Steps. He gripped entreated Roger, boy it's her whole life!'

 'Good bless you, dear l"
the best man whee ding away. And with spent, Roger went slowly back up the
steps. It Steps. It was an effort now to talk e. gone Leaven these people soon were,
aunt of the of all went the ponderous aunt of the e room. How the ponderous as he helped her inside and staxtroaned
off to
Bridgeport. one to Bridgeport. Back in hated her
he found his cigars and in the
diddly he fraud his cigars and smoked one
dismally with
Bruce.
Bruce was decent sort of chap. Bruce
silent. knew when was a
a silent guess H Ill have to get back to the orifice.
He smiled a little
 "Bover-eh?" he asked ot asir' of said Roger heavily "yon' let her grow tour own growing up. Dort blunt face Shell need you," His Live on damnably dark ned. "The $\begin{gathered}\text { His massive } \\ \text { world's } \\ \text { s. }\end{gathered}$
 forget "em. and she edith," he said, "and flat. She said you were tots one into the
come sure to come and tell her about the wedding."
 a devilisout tor his hat and coat. What
house house, A hats hour hat made of the

Edith; but he was with | Edith; but there, despite hie was with |
| :--- |
| answer all her questions h he fort to | and we her questions, he grew heavier

an heavier, till tat last he barely spoke.
He sat watch ${ }^{\text {He }}$, Did wat you talk Edith to sam by "Yes," he replied. "It did no good, but he kept doggedly silent withing for more "Well, dear,", she said presently, "at joined. never done what I could," he He glanced at her with any one of you twinge of pain much if If had , This would have helped
$\qquad$

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 hallah
Tore
room sofa and lay motionless for attic How tired he was. Motionless for a phil
he drearily si. F hem time to tim he drearily sighed. Yes, Deborah wo tim
find the nt Where was she tonight, he wont lonely Coulten't she she tonight, he wondered single afternoon At last, when the on had grown pitch dark, he heard the maid lighting the gas in the hall. Regard the maid
deane loud l centered hist troat, and at the sound the
startled girl
"ejaculated, "Oh, my Gawd?" "It's I.", said Roger sternly. "Di did "She didn't go out, sir. She's up in her All alger went up and found her there rad been setting the house to rights and now she ached in every limb. Some,
was lIving on herb bed, and she looked as
thumb she hat though she had been, crying.
"Att Edith's,", you been fer she she inquired. held reached up and took his hanwered. here, with H Laura gone find it too lonely And the wistrat gone") she asked him
voice mad
 gave ha should If" he retorted. Deborah said. ", "'m i use been shaving that's all,", she I've been feeling so on id a this at of blues,
a regular old wo a regular old woman. I wanted yo
dearie, and $I$ was afraid that you w he she
broke Look "Do oo u tearer," said Roger sharply "Keep this house? Why, father!", "You think you can stand just the think you can stand it here alone, he dem "I can", cried Deborah ned. as he looked blindthe outhinow. There
assaulted by the lights his eyes were
 appeared for And a a ok of vicious triumph back. "Then," we were bot quietly, turning went to the door " "I th souled." he
for supper," he said.
go and wash up

## It was CHAPTER VIII.

smooths ar relief to him to find how
ind Deborah to into their old relations. It was good bod to
get home get home those evenings: for in in this new
stage of its eveisten two the heusetence, with its family of
itself with ouse appeared to have filled had gone out of his hisposeful feeling. Laura her room one night, and it it lacked into
a guest room now. The
lice


 | off Roger's uneasiness seemed bearing |
| :--- |
| smile at his tor me He could | Safely married and wear fears, or Laura was

husband Tie lime willy in love with her
 musical, cher vatting and high-pitched but Phone, her bustle of dressing to go at
glimpses of tar

 them easily, as though glad to enter this
long rest.

## NOVEMBER 20, 1919

THE FARMER'S ADVOCATE



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## the BANKorTORONTO

Current Events

The Parliament of Canada was pro
The Quebec Legislature will meet early
cimeer.

The members of the Drury Cabinet ere sworn in at Toronto on Nov.

A handsome Soldiers' Memorial Hall, the first completed in Canada, was
opened at Cobden, Ont. .

Hart Massey was memorial of the late presented to the Toronto University, by members of the Massey family, on

Packs of wolves, in unusual numbers, are roaming about near the settlements in the far North West.
the highest medical and cted by some of ities in America, was held in Hamiltor
Ontarıo, last week

The Department of Agriculture i Quebec has procured a number of tractor which
On Nov. 10, after a stormy passage Bills were signed by the Governor Genibition

The degree of Master of Household Science was conferred upon Miss Edith
Rayside, (a graduate of Ouesn's by Toronto University.
Several lives were lost by the wrecking
of the H. E. Runnels and John B of the H. E. Runnels and John B. Owen
on Lake Superior, during the recent storm

Farmers and endorsed nated by the Farmers and endorsed by the Liberals,
was elected by acclamation to vacated in the Saskatchewan Legislature by Hon. W. R. Motherwell, to contest $t$
riding in the Federal I.egislature. On Nov. 11th, obeving the mandate of
of the U.S. Federal Court of the I.S. Federal Court, the miners strike was cancelled, but negotiat mons for
new wage asreement will pe

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summer resort, the Prince placed
wreath on the tomb of Washington
The U. S. Senate, by a solid lineu of Republicans, reinforced by four Demp of Nations Covenant witht the League of Nations Covenant without modifica.
tion of Article 10, which pledges America to help European nations in case of
necessity. On his western necessity. On his western tour, cuddenty
ended by his collapse, President Willon ended by his collapse, President Wilson
asserted that to remove this article would be to cut the heart out of the Covenant, and result in rejection of the Treaty,
which stands upon the League of Nations.

William E. Johnson, head of the small band of United States workers now in England in the interests of prohibition,
was mobbed and beaten in London, was mobbed and beaten in London,
chiefly by a band of medical students, chiefly by a band of med
before rescued by the police.
Countess Leo Tolstoi, wife of the
great Russian great Russian writer, died at Yasnaya
Poliana. She was the mother children.

Some Filipino Proverbs. Lord Bacon said, "The genius, wit and spirit of ," nation are discovered by its
proverbs." The following tave ben proverbs down the following have been to generation of the Filipino people. Most of them suggest that human nature
is pretty much the same on both sides is pretty much the same on both sides of
the globe. Bravery-A hero is braver for his
wounds. wounds.
It is too late to withdraw when you
are already wounded are already wounded. CAUTION-A fish is caught by the
mouth. Repentance never comes first.
Courage is of two sorts; one goes forward, the other retires.
Haste creates delay
There is a snake in every jungle.
Character-Which ever side a tree leans, there it falls
Tis easy to be born, 'tis hard to be a
man.
He who is raised in ease is usually destitute.
CHOICE-He who is hard to suit will Compensation-You laugh to-day, I augh to-morrow. Counsel.-He who despises counsel is on the way to misfortune.
no mind of his own everything said has DisDAIN-You may dislike, but never despise.
Faul-finding- The fault-finder has the biggest faults.
Fools - A wise man's joke is believed Fools-A wise man's
by a fool.
Fools earn for the wise. It is foolish to argue with a fool. Foresight-Strength yields to plan,
Working early is better than working Forgetfulness-He who is happy is forgetful.
Friendship-Let us fight, then be Good Deeds-Good deeds are more precious than gold and silver.
Kindness is a great capital Kindness is a great capital.
Gratitude--Kindness is with kindness to be paid, not with gold and silver. HOME, , Love OF-The pain of a finger is the suffering of the whole body.
HoNor-Even the poor love honor Break your head, but not your word. Hope-It may be mere mud, but above it is a piece of heaven.
I should not grieve over my misfortun for what muddy water did not become clear?
Hospitality-Though my house is small, my heart is large Industry-A sleeping shrimp is carried away by the current.
A lazy dog does not get even bones. A lazy dog does not get even bon
Work put off ends in nothing. He who is always preparing to do some MERIT-The quality of gold is known by rubbing it against stone.
MODESTY-He who is high suffers a great fall.
The fly that rests on the back of a The fly that rests on the back of a
carabao (water buffalo) thinks it is taller than the carabao.
Boastfulness drives away wisdom.
Do not brag before landing the
Perseverance-A thing is near If you want eggs, put up with the If you want eggs, put up with the

## pino Proverbs.

 a "The genius, wit anda are discovered by its
following have bees mouth from generation
the Filipino paople. the that human peoplere, ero is braver for his withdraw when you caught by the vo sorts; one goes forin every jungle.
inch ever side a tree born, 'tis hard to be a d in ease is usually $o$ is hard to suit will You laugh to-day, I tho despises counsel is everything said has iay dislike, but never The fault-finder has joke is believed

November 20, 1919

If you are afraid of every dog bark, you
will never reach your destination.
ind PRIDE-Do not be too near your
superiors, lest they trample upon your dignity.
Righteousness-He who deviates from clear path may lose his way.
shout.
SHREWDNESS-If you wat tend to be a fool.
Temptation-A piece of green wood win burn if placed near the fire long
A wanderer will sooner or later slip. Thrift-Easy earning means quick $\underset{\text { Truth-A }}{\substack{\text { spending. }}}$ liar loves to take an oath.

The Late General Botha. Louis Botha was in all things a typical
South Arrican. He was typical in his great height and frame, in the stoutness of his later years, in his veldt-craft, in his ove of the open and of horses, cattle and sheep; he was typical also in his mind;
in natural sense and shrewdness, which in spite of his apparent simplicity gave him the advantage in dealing with many a
He was born in 1863, it
He was born in 1863, it is said in Natal,
so that by birth he was a British subject, but almost all his life he was a Burgher of the South African Republic. At an first Volksraad, representing Bryheid ike Joubert and a good many other Boers of the better class, he opposed Kruger's narrow and fanatical policy. He dent's clique. He never belonged to the itter anti-British party in South Africa. Although he took part in politics as a Moderate, his favorite study was war and every book he could obtain on the life of the Emperor, and by these early studies mastered the principles of war.
When war was at last declared he went into it with a greater zeal and a wider Fomprehension than General Joubert. From the very first he urged a forward sent his telegram: "May the Vierkleur son wave over a free harbor," meaning, of vance on Dundee he at first In the advance on Dundee he at first acted under his nerve and deserted his army, Botha took over command. His generalship
soon conguered the Boer's almost superstitious distrust of youth which superequalled that of the British, and Colenso and Spion Kop proved his generalship.
$H$ is forward would have led the Boers to by Joubert, the old man insisted on that fatal de fensive policy which lost to the Boers
their only chance of success. When the Tugela Heights were captured Botha he organized the retreat. 1900 the war was died in the spring of less, Botha reorganized the Nevertheharassed, although he could not stop,
Lord Robert's advance. It would be useless to recount the various guerrilla
actions which followed that General Botha won the respect of foes as well as friends. He never showed either brutality or bitterness, and when English traitors slandered their race with
lies about the concentration camps
Roth Botha brought concentration camps,
his remark: "Wem to confusion with know that: "We are only too glad to that folloitish protection", In the are ciled by the statesman Botha was reconand the tact of Joseph Chamberlain. their great gamble of Government made responsible government, and giving the Dutch an electoral majority, it was
chiefly General Botha who saved that policy from disaster. He never for a moment forgot that he
had taken the oath of allegiance to British King, and he was proud to wear a
British sense told him that South. Africa could not stand alone, and that its prosperity
both as country denended on the British Eastria He was, therefore, by intellectual con viction, a loyal British subject, and this
conviction conviction he shared with his great friend
and colleague, General Smuts. He laid then down with courageous firmness. He laid it
flag question "the flag question was settled for eyer." As
[HE FARMER'S ADVOCATE
Chief Transvaal delegate to the Union
Convention he played, as always, moderating part, and he was at anays, hored
and appreciantive guest of this country at
the Colonial Conseren and apprectative guest of this country at
the Colonial Contern ence of 1907 .
His Moderate views were His Moderate views were opposed to
thecial fanaticism and Republica
bitterness of Cend bitterness of General Hertzog, who le
the Nationalist movement and who General Botha's most redoubtable wa ponent in South African policy. This op
position led to a cordial co-operation with
the British the British Unionist Party in South Africa. There was more than political interests between General Botha and Dr
Jameson. There was a close and cordial Jameson. There was a close and cordial
friendship. These two trusted and understood each other and worked in loval comradeship for the good of South Africa
and the British and the British Empire. There was never a more remarkable case of co-operation
betwen a Prime Minister and a leader of the Opposition.
When war broke out General Botha When war broke out General Botha
found himself confronted by a very dangerous situation. The Boer Nationalists, fired by General Hertzog's eloquence
and not understanding the subtlety and not understanding the subtlety which
distinguished between disloyal talk and disloyal action, took disloyal talk and perate attempt to use the British embarrassment to establish the independence of South Africa. This movement was
supported by De Wet, who had a deep personal grudge, inspired, it is said by jealousy, against General Botha, and by General Beyers, who was then in command of the Union Forces, and who is loyalty, when he visited Europe, by the German Emperor himself. It is unnecessary here to describe the
magnificent skill and energy with which magnificent skill and energy with which
General Botha and General Smuts pressed the rising. It was a very formid able movement. The treachery of Genera Beyers had placed a large part of the
available rifles in the hands of the rebels and, as they were numerically strong, they had been allowed to concentrate the position would have been very dangerous.
But Botha and General Smuts never allowed the rebel plans time to fructify By a skilful use of the railway they kept them continually on the move, and so
disposed their forces that the rebels were disposed their forces that the rebels were
defeated by sheer strategy and almost without a battle. Having crushed the rebellion, he took
a force of between 40,000 and 50,000 men a force of between 40,000 and 50,000 men Incredible speed. In less than a week he had marched 1200 miles. His infantry marched 250 miles on the heels of his The forces also made skilful use of the motor-car, and thereby prevented the
union of the rebels and the Germans union of the rebels and the Germans.
Victory was quick and complete, but it had the unfortunate effect of overstraining the General's strength. His sedentary life after the Boer War had
unfitted him for the strenuous incidents unfitted him for the strenuous incidents
of the campaign in German South-West Africa, the most waterless and barren region of South Africa
General Botha's
General Botha's greatest achievement,
however, was to maintain South African however, was to maintain South Atrican
sentiment against the constant attempts of the enemies of England to stir up trouble between the races, black and
white, and between Dutch and English. white, and between Dutch and English In one of his speeches he said that the
plot against South Africa, if he told it,
tw "would make the hair of South Africans to rise on end." As a matter of fact,
he knew, and it can now be stated, that the Germans had prepared a force of some 20,000 reservists in South America, and had intender, $\begin{aligned} & \text { on the sea, in transporting them to Ger- }\end{aligned}$ on the sea, in transporting them to Ger-
man S.-W. Africa to use that country as a base of operations for the conquest of
the Union. the Union.
Throughout the years that followed General Botha maintained a position in
South Africa, while General Smuts represented the Union Government in Europe. The combination of General Botha's
steadiness and General Smuts' skill was perhaps one of the most remarkable pernaps ena in the history of the war.
Throughout, General Botha's speeches Throughout, General Botha's speeches
show his unswerving grasp of the situashow his unswerving grasp of titions and
tion. He knew the great ambins
designs of the Germans, and he knew also designs of the Germans, and he knew also
that the fortunes of South Africa were wrapped up with the British Empire.
His wrapped up with the British Empire.
His visit to this country in December of
1918 is too recent to require description 1918 is too recent to require description
here. In his enfeebled state of health his indomitable spirit never failed, and his
commonsense and sanity were of the

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montreal

ships, the average Dutchman, the com-mon-sense normal South African, knew
that he could always trust Botha to be that he could always trust Botha to be
staunch to the Dutch agricultural interest. staunch to the Dutch agricultural interest.
One of General Botha's last achievements in connection with the world war was to secure reasonably good treatment for the Overseas cadets who were in
Officers' Training Corps or Officers' Cadet Ofacers Training Corps or Officers' Cadet Battalions in this country when the
Armistice was signed. All these men were on their way to commissions in the servicia Forces. Many of them had seen England horseas; some temporary commissions in Colonial forces; others had been sent here with recommendations for com-
missions from the officers under whom they had served in one or other of the African campaigns. The proposal of the War Office was to send all these fine
young fellows home without the "stars") young fellows home without the "stars",
which most of them had well earned, and to which all of them aspired. Our authorities were so sadly lacking in imagination that they did not seem to realize what harm might be done to the
Empire if thousands of the best class of Empire if thousands of the best class of
young soldiers were allowed to go to their young soldiers were allowed to go to their had been ungenerously treated by the Mother Country:- The matter was brought to General Botha's attention. re saw at once what a blunder was being made, and insisted that every Overseas
Cadet should receive a commission before leaving England. The officials concerned pointed to the "regulations," but General red tape was not a man to be frightened by ontest between was a short but sharp Whitehall officialdom. General Botha each with the Cadets went home rejoicing display to his admiring friends at home. -
World Wide.

## Beef Production in

 England.duction in England," which has been written. by K. J. J.' Mackenzie, M.A., veristy of Cambridge, is a work Unicannot fait to attract much attention,
and no little criticism, at the hands of and no little criticism, at the hands of
British stock breeders and stock feeders and rearers. This is clearly recognized by the author, who tells us, in his pre-
face, that he knows, only too well much of my text will strike a blow at practical men in that which, after their judice." We do not agree with the main conclusion he arrives at-and which argument -which appears to he that should utilize the powers of our dualpare them for the butcher for beef after their dairy utilities have been exploited infor. This means the production upon imports for the beef of high dending o which the people of this country have rate, is how we read the authis, at any round-about way of putting this. "At a price," he tells us, "the carcasses of the
descendants of our much stock will be returned to us in admirable ships. Though the amount of soil
awaiting the laing is enough of it lefobber is limited, there has recovered from this war.
A nation accustomed to more than likely to go on eating it while place of origin is insecure," If that its be permitted to say so, the underlying
fallacy fallacy of the work is that it does not recognize that there is much farming
not only in this world, which must be judged, not hy ideals set up by scientists-often not inprac
tical men-but by tical men-but by the available conditions
under which that under which that farming is carried on.
Al Ahe scientific ideal, or which does not get
all the papduce out of the land which
would bef perfectut would befperfectly of the land which
available faverall "Iand-robbing,", but conditions, is not
hiay be in thest degree second point to which an allusion may bere
made of the greatest aims of the soundest agri-
cultural reformes cultural reformers for many years past,
and because, in beef making as in other matters, there have been abuses in this-
reason why the ideal of quality ehor
not in itself be a good one and of taking a pride in. We should
to degirine to describe the production of high-oi beef-and making the best of our "quai
purpose" cattle on purpose" cattle on the beef side as we rather than "pre urudice." And Ant in tid management and best use of our stocks there is one condition absent the makes any comparison with continental practices very inopposite. On the con tinent cattle are still largely used for
draught purposes a use that and happily, been discarded in th country. The young bulls which woul be used largely for this purpose can
therefore, be best utilized by steering an converting into high-quality beef in th quickest and most economic manner

## Horse Classes at Toronto

Provincial Winter Fair.
We are informed by the Secre of the Ontario Provincial Winter
that several changes have been the prize list for horses and additiona cash prizes offered. The changes ar
as follows:
The cash prizes offered in the various
classes for horses has been classes for horses has been increased Fair. In addition several huncral important changes have been made in the prize list as to classes and sections.
A class for Belgian stallions any age has been added and in the following breed Thoroughbred Hackney, Standardbred an Thoroughbred there are nowt tou
classes for stallions instead of thre flasmerly. The various sections iow read:
Section 1 , stallion foaled previous
January 1 st, 1916 ; section 2 , stalio foaled in. 1916; section 3, stallion fodile in 1917; section 4, stallion foaled or The Jar
tion is ontario Horse Breeders Aspecial prizes of $\$ 6 ; 2 n d, \$ 4$ to bea warded to Ontario breed ers of first and second prize winning ani.
mals in all Horse Classes mals in all Horse Classes.
Walker House Trophy. A handsome
silver trophy, to be compy at ver trophy, to be competed for anmmin and to be given for the "Grand Champion, Canadian-bred, heavy draught 2. years and over," recorded in "the ex
hibitor's name in the National Live hibitor's name in the National liv
Stock Records, Ottawa. This tropli is to be given alternately to males and females and in 1919 will be given (or the Grand Champion Stallion. A miniat ture of this cup to be given to the winner each year.
Bright Special. A cash prize of $\$ 25$
will be given to the "Gan will be given to the "Grand Champlont anadian-bred, heavy draught, 2 years name in the Canadian National Live Stock Records, Ottawa, to be competed for alternately by males and females? and to be given in 1919 for the Graic
Champion Mare. Champion Mare
"I have had Dryden, of Brooklin, writes: hire had a good trade for my Shrop. of my own breeding. All of the imported rams are away except two of the best which I reserved for use upon the splendid lot of imported ewes which I am now exceptionally well-bred, typical lot of Shropshires, and are the right kind for anyone wishing to add fresh blood to
their flock or for the foundation of flocks. I shall be glad to hear from anyone contemplating a start in the sheep business and will quote close prices. Any one who buys these in-lamb ewes should be able to grow their own flock header for
-
A bishop has suggested prayers for the that a good many of the old ones are past praying for.

She knew the symptoms-"Madam," is lying the new maid," your husbarid hall, with a large box beside him and hall, with a large box beside him and "Ah," cried her mistress my new hat has come"

## Founded

ideal of quality shon
a good one and a good one and worth roduction of highld prequai on the best of our de- as beef side as $m$ dest use of our cattl
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Provincial Winter ges have been made
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Thene
Tbrese red, typical lot an o add fresh blood to glad to hear from anys uote close prices. Any own flock header for

## gested prayers for the ips he agrees with us f the old ones are past

## ymptoms-"Madam,"

 maid," your husbañd box besie reception his hand.JOVEMBER 20,1919


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winners than any other modern blood Yinne.
Two herds of 87 non-pedigree dairy Shorthorns, owned by Arthur Hiscoli
Motcombe, Dorset, have been K4,635 15s., or an aneraze of © 53555 . 8 Bd . apice. One cow made 6100 (top price)
and others fetched 673 to 664 . Dairy and others fetched 573 to 664. Dairy
cows of Shorthorn ancestry, and not in Che Herd Book, are avestryhere realizing $\$ 80$ down to E 56 in in our English weekly commercial markets.
Michaelmas Sheep Fairs are an institution in England. Prices for wellbred rams of nearly every breed remain very high and breeding ewes are stiil
costly to buy. C. B. Warfie sent costly to buy, C. B. Warsier sent 22
Lincoln shearling rams to Maiton Fair, and they realized $£ 3358 \mathrm{8s}$. 6d., the highest price being 36 guineas. J.
Cranswick received 35 Cranswick received 35 guineas for one,
and realized $\approx 5284 \mathrm{~s}$. for 24 head. Major
 Behren's
13s. 6d.
Leicester rams sent by J. F. Thompson to Hull Fair made up to 20 guineas; Mr Nightingale got 19 guineas, and T. C Jackson, 11 guineas, W. F. Woods' guineas, and averaged 513 gumeas 4 d ., at Sittingbourne Fair. Ashley Stevens ${ }^{\prime}$ rams sold at 44 guineas to 8 guineas, an averaged 6815 s . 6 d ., and W. F. Clark's,
66 s .9 d , 66 6s. 9d.

The noted flock of Border Leicester sheep, the property of Messss. Foulder 81 rams made $£ 55$ each- | or high prices |
| :--- | 612 13s. each; three-crop ewes, 5184 s . 9d. apiece; two-crop ewes, 519 '9s. each and one-crop ewes, 520 188. 6d, a ew of this last-named age etching: 553 .

For 71 head of Berkshire pigs, sold at Suddon, Wincanton, Julius Fricker
 560.12 s ,, and 51 of this yeare crop Wveraged Work farm in-fo Working, farm, in-foal, Shire-bred mares marts, where they were very hioh i 1917-18. Last week they realized 96 and 80 guineas in Preston. Yearling Shire cotts are also cheaper in torkshire, and
realized 50 guineas down to $39{ }^{\text {guineas at }}$ realized 50 guineas down to 39 guineas a old, realized 70 guineas. Three Friesian cows in England hav topped 2,000 gallons a year, and yarasil
ripe have been written in the dail tripe have been. It has started Jersey
papers about it. Ever one of them is trotting out his record breakers, but the claims of the Guernse cattle bred in England do merit recog
nition. It must be recollected that th nition. It must be recollected that the
English dairy farmer is only just finding out which is the profit-yielding end of
ALBion.

The Canadian Shorthorn Annual
The Canadian Shorthorn Annual, which was issued some time ago, is an ex-
ceptionally well-prepared and interesting ceptionally well-prepared and interestags
volume containing one hundred pages volume containing one hundred pages.
It contains a list of the officers and It contains of the Dominion Shorthorn directors, of the Domine mine last annual meeting, the financial statement, rules for registering animals, the
standard for registration in the Canadian standard for registration in the canacia Recorch reulls which have qualified in the R.O. P. It also gives the names of winning Shorthorns at the arger exDominion. The front part of the book is exceptionally well illustrated with There are a number of timely articles, showing the expansion of the Shorthorn breed and the adaptability of the breed oo Canadian conditions. An article on
itting show steers, by J. H. Skinner fitting show steers, by $\begin{aligned} & \text { Purdue University, is exceptionally well }\end{aligned}$ written and contains much practical in
formation. This Annual might well be in the hands of
Shorthorn cattle.
 a never-failing leavener



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for family use. Always follow the directions-one level teakpoonfult to one
level cup of well sifted flomr. The Egg-0 Baking Powder Co., Limited Hamilton, Canada

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 old style engine wonld toar it to plece. Works designed a nem type at
Skyers
 farm ensfine, but so well built, butanced and goverued thatit
ran more steadily and quijetly than a farm enyine was ever


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 Isit tirottle governed? A
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tready. -mane
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## COCKSHUTT "VICTORY" PLOW

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splendid server splendid service they are giving others.
Farm Implements and Machines for Every Farm Need.
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Oun Eastern Ontario sebec and Maritim Provinces

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Hon E. C. Drury, Ontario's Victorious Premier, operates a Cockshutt Victory Plow on his farm at Barrie,

|  |
| :---: |
| Founded 1866 |
| Ons and And | ons and Answers re and Tractore bile and Gray Dort? ouses in Canad and tractors? The Reo is manufactire ors, Oshawa, and the $C$ tham, Ont. All three Gre路 hich can be secured throu r 81.00 , gives valuable if bout all parts of a gasolin

ing causes of ing causes of various troubl ients for the same. W rs or tractors.
Toad Flax
he name of the enclosed Id you advise patting th
ext year? weed submitted to this office toad flax, Linatia vulgari: 8 spreading quite rapid Being a perennial and $t$ is a a rather persistent weed tion of crops with deep tivation in spring and fal loubtful if you will be abit eradicate the weed with the ext, year. Plowing earl d giving a partial summer
the fall morithe, and ther the fall morths, and ther 2. hoed crop, is a methon
oven successful in clearin!

## Hens Dying.

several hens die this fall
gradually beco gradually become thinne Some died with what e throat trouble; there around the neck.
of the sickness? pirds becoming thinner and indicate tuberculosia, Other
ymptoms, however woll ymptoms, however, would
and an anaemic appearance ad. The swelling af go of the eyes are symptoms
diseased birds should be the healthy ones and th in a weak solution of com
cure. The nostrils migh cure. The nostrils might rear and should be lanced is touched with retting into the flock nd the birds well nomishec rafts. Exclude from the anyone coming in contact
birds: The throat trouble due.to roup

## Veterinary

in Trouble
e-bred Berkshire sow that,
is about 4 weeks old takes is about 4 weeks old takes
Scales. form over head and ery itchy and the young There is no matter under it retards their growth
pigs are more subj
this nature than ot at cah be done as a pre see the sow in only moderate see that she gets plenty of axative food. Thoroughly emises in which she is to
urse her in every way. Make a or raw linseed acid to 50 it every third day for a fore the time the trouble is appearing; also rub her as soon as she apearows 3 times daily of equal lts, sulphur and powdered
sold we
11 and 1 and wood ashes she will a reasonable supp

The Trapper.
mitibs and prelmonaries. is atmost needfens to enumerate here the possibilities in trapping furbearing animals. Millions of dollars worth of furs are yearly taken in Canada, and strange as it may seem, the most of the Canadian furs are trapped by the farmer and his sons. Some may be more favorably located thian others, but they are very few, if any, communities where a person cannot make a good thing during winter as a side line, devoting his spare time to the very profitable industry of trapping. I can easily call to mind many farmers or farmers' sons who make anywhere from a hundred dollars up each season, depending on their
locality and the amount of time devoted to it.
Again, any one who is fortunate enough
to have swamp land can turn it from to have swamp land can turn it from land of no value into the best paying part of the outlay that would be yearly necessary on ordinary land. The method of doing this is to fence of the swamp with a strong wire fence of about two-inch mesh, and grow muskrats. After the
land is fenced you would not want to trap any rats for about two years, and you would then be able to begin operations, increasing the number you catch each season. Of course, if it is a large
swamp, it would not even be necessary to fence it. The idea is this. Muskrats
the ment are very prolific, and one pair would on an average easily rear fifteen a year, so you can readily understand how fast for a year or two. In the United States in the south, a somewhat similar method is used, and thousands of dollars are used, but the limits tho fences are here each one are staked off and rented to does not trespass on the other's land in a fairly large swamp, of course, no encing would be necessary. Muskrats nowever, must have water, and if the to the bottom in in the swamp froze have to have them dug deeper so that the water would not freeze solid, as muskrats must have water.
consideration ought to be taken into consideration by the trapper, and these use methodsand devices to put the animals out of their misery in the least possible time. As a means to this latter end, look regular traps each and every morning reguariy, as soon after dayl ght comes as
possible. Most fur ber possible; Most fur-bearers are nocturnal, nervous and afraid. Therefore, when they are captured and when daylight comes, they work harder than ever, if they are alive, to secure freedom, and by every morning, you not only decrease their suffering, but you also then run fewer chances of having them get away by securing their freedom at the price of amputating or pulling off their imprisoned
limb. You see it and I have yet to know of any one who ever gained anything by causing an animal to use, wheneruelty. Another method is to use, whenever possible, one of the types
of traps that instantly kill By these I refer to the "Kill-um" and "tree" traps. The former are for muskrat, skunk and all animals having burrows over the made of heavy wire and placed aver the mouth of the burrow. When an animal attempts to enter or emerge
it touches the trigger, and the two "circles" of wire go in opposite directions and almost instantly choke the animal to death. For mink, marten, muskrat, etc., use size No. 1 of this trap; for skunk,
coon, etc., use size No. coant, etc., use size No. 2. The tree trap
fastens to a tree by means of nails, was originated for such climbing animals as coon, etc., and when fastened to the trunk of the tree is used for weasel,
mink, marten, etc. to the trigger and we bait is fastened touche trigger, and when the animal its head and holds it fast, killing it very quickly. For weasel use size No. 0, No. 2, raecoon, etc., size No. 3. 3 . of
No. course, these traps can be used only at
certain sets, as stated, but you can at least use them there. By doing this you are following along humane lines, and traps there is no possibility you use these getting away. ${ }^{2}$

# Active Christianity Will Mend the World 

THE United National Campaign-representing the co-operative feature of the simultaneous, but independent, Forward Movements of the Anglican, Baptist, Congregational, Methodist and Presbyterian communions invites all followers of our common Lord and Master to pray earnestly for the peace and well-being of Canada and the world, and for a renewal of the Christian spirit of sacrifice and service.

## Thirteen National Conventions

Thirteen National Conventions are about to assemble at the call of the United National Campaign. The dates arranged, and the places of meeting here follow:-

> November 24th and 25th Noronto and Montreal. November 25th and 26th Montreal and Moose Jaw.

## The Objects of the Conventions

1. To give thanks to God for Victory.
2. To rouse the Canadian people to a keener sense of their religious privileges and national responsibilities.
3 To stimulate the practice of prayer for individual and national needs at this difficult period.
3. To re-affirm the principle that the Gospel of Christ is the only cure for those conditions which produced the world war, and the only foundation for ensuring national stability, social welfare and individual happiness in the day of peace.

## The Reason for United Action

His Grace, the Archbishop of Canterbury, preached the opening sermon of the Church Congress held at Leicester, England, on October 14th, 1919. On that occasion, he said:-
"We ought to be able to make more of the real oneness, which, thank God, is al ready ours, the oneness, both in faith and in potential action, of all who can and do kneel to Christ as their living Lord. We of that fellowship for united ... impact upon the world, or penetration of the
world, at an hour so inexpressibly difficult as this. That need not, it will not, interfere with completest loyalty
tinctive truths, which in our smaller circles
within the Church of God we conscientiously hold dear."
"The corporate life which belongs definitely to our own Churchmanship claims our whole-hearted allegiance. But that allegiance acquires an element of peril if it becomes so disproportioned as to obliterate or mar our loyalty to the larger whole, the Christian fellowship, the Godguided life and energy of all who profess
and call themselves Christians,"

## The United National Campaign

G. H. Wood - Chairman of the Executive Committee

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out their feet
othe out their r feet). There ara seve oral putling
of doing this, but they yre and ol doing this, but they are all similiar, and
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 bout six feet in chain will which the 11 twigs and limbs down smoot trim it small ond which pair of twigs at

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the animal was caught. At the very
least you lose this, mind you, and as rule more.
is such may say that one unprime pelt number of these small losses but it is the and yearly thousands and hundreds thousands of dollars are lost in this his grain the farmer who would cut it sold quicker would be a good candide for the asylum, but it is good candiaat to do this than it is to capture animals whose pelts are unprime. In spite of all season, as regular as clockwork they continue to catch unprime animals. In know furs, year aftere trappers will catch sixth of what they were worth had they pers who have hads longer, and by trap enough to know better make out it shows a lack of judgment
and brains. They always have and that lays the persist in killing the goose they undertake to could name similar specimens and know what I mean. Don't be like them, but rather use your brains and judgment for
what they were originally go at trapping in a businesslike, systematic and humane manner. Remember it can be conducted on a losing scale, or one that will return you much money for the
time and labor expended. It all depends on yourself.-R. G. Hodgson.

Questions and Answers.
Miscellaneous.

Hereford Herd Book
Where could I obtain Volume 10 of the
Canadian Hereford Herd Ber Ans.-Write the Accountant, National Smith, Secretary of the Canadian HereOntario, Breeders' Association, Ancaster,

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trappere, are a few brief tore of the new seasons when he is is most tees about the the
prime skins. It must not be to get prime skins. It must not be taken as
law, beause the weather conditions in
and each locality affect the quality of furs considerably on animals. Thisis will, how ever, serve as a very fair guide.
Skunke
Skunk: In the northern regions skunk
are prime about the hetr are prime about the last of October and
stay 30 until the midel the south they are prime March. In last of November and stay so until the middle of March.
Mink: Prime in latter part of Novem ber, December and January in the north in December and january only in the
south. At the beeinning of soutrilly if the winne of February
 are fair irat: in the fall, noth not muskrat skelly prime until midwinter. They remain prime
until latter part of Anril or May. From then until June they shed slowly. In the south muskrat traping should not be continued after April 1 . from November 1 to June 1. In the south they are prime shortly after the first of Deember and stay so until the $\underset{\text { midde of April. }}{\text { mile }}$ in the north about 15 th of Novembe to the middte of March ;in the south from November 30 to February 1
Novembern i i; later in in the soonth are prorime to location. They should not be trapped leter wan
February
20 Febriasum: In the primessum: in the north, opossum are
prime about November 1 and stay 90 until March 1. In the south they do not become prime until November 15, and begin to shed several wekss earlier than
they do in the north

International Live Stock Show.
Great preparations are under way for the International Live Stock Show to
beheld in Chicazo commencin be held in Chicago commencing November
29. The entries of live stock consist of 441 Shorthorns in the breeding class, and 49 in the tat class. There are several entries from Ontario; 1111 Mikiking Short
horss are entered The Angus breed will horns are entered. he Angus breed win
be rencesented by 244 in the breding De represented by 24 flis the treeding
Cass and 82 in the tat class. There are 3 31ss Herefords in the breeding class and 88 in the fat class. One hundred and ten
grades and cross-breds are entered. The grades and cross-rreds are entered. The
sheep classes have a large entry. Among





 Jas Snell, Clinton, In the breding
classes of swine there are 127 Berk-
 ${ }^{122}$ Shires and 83 Hampshires. The Perch-
 Shires $88 ;$ Belgians, 167 ; and Suffolks,
5it
The enty list indicates that there 50 The entyy ilist indicites that there will be particularly strong competition
in every class. Time can profitably be
in spent in attending this great exposition.

To Discover Parasites of

European Corn Borer. The United States Bureau of Entomobogyentanct Agriculture, has insti\begin{tabular}{l}
tuted an enquiry into the nature and <br>
posibilities of the control of the European <br>
\hline

 

possibilities of the controo the Eurorean <br>
Corn Borer by parasites. This work has <br>
\hline
\end{tabular} been berun with a view to the disemination of parasites in order to combat this destructive pest in America. We were interested to learn that a Canadian, a graduate of the Ontario Agricultural College and Cornell University, Middlesex County, Ontario, has been appointed specialist in parasites to take charge of this work. Mr. Thompson will have a laboratory near Tolouse, in the south a

France. At present he is completing his course for a doct
Paris University


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 and ram lambe. Priced for exie Balmedie Aberdeen-Angus THOS. B. Dill agean biow-ring quality. Abo females

Housing Swine in the Winter.
by w. c. mckilican, brandon experi-
In providing shelter for swine during is dryness. Other points such as warmonth
ind
and and ventilation are important and closely related, but the absolute dryness. Buildings heated by the warmth excessive anis have a great tendency to comes chiefly from the anine warmth which is moisture- Iaden. Anals' breath moist atmosphere is detrimental to the health of any animal, but to pigs it is
particularly objectionable, as they as particularly objectionable, as they are
more subject to rheumatism and othe troubles traceable to dampness.
wintering in piggery.
any full brevity of this artion of piggery will ponstruevent any full discussion of piggery construction,
but a few essentials may be noted Cement floors are the best from the but a pig should never lie on a cement fioor. Sleeping platforms should be pro-
vided. These may be raised only videc. These may be raised only an
inch or two above the cement or may be elevated so that there is a two-story quarters. Cement should not be used for piggery walls; it makes a damp building. Wooden walls with plenty of insulation bymeans of paper and dead air
spaces are best. $\AA$ i piggery should have ample sunlight, and the rays should shine on the sleeping quarters, keeping the bedding dry and sweet. The area
of glass should not be exter Of glass should not be extreme, however,
as that defeats the object building too hard to warm and conseguently damp. The ceiling of a piggery should
not be too high; a low ceiling allows the not be too high; a low ceiling allows the
place to warm up more readily and facilities ventilation. A good system of ventilation should be installed, or a
straw-illed loft with slatted ceiling take the place of the foul air vents.
wintering in straw plle.
Where straw is plentiful, pigs may be
wintered quite successfully in a large pile of straw. A start at a burrow
in the straw should be made for them by threshing the pile over a clump of bushes, some home-made trestles, a fence or
other obstacle that will make a hollow other obstacle that will make a hollow
place in the centre of the pile, and a phuwway out from it. The pigs will then
burrow from this and make their own
nests.
Where
whe used is not unlimited, the same
kind of shelter can be made with much less straw. The shelter place should be surrounded by a fence and roofed over with poles. A second fence least six feet. Straw is then perched in the intervening space and piled over
the top. A crooked entry passage at the south side will allow the pigs to come in
and out withoit too much direct draft entering the pen.

## wintering in cabins.

Pigs can be wintered quite comfort ably in the ordinary cabter in summer
providing shelter on pasture Where the location is well drained, and thithout floors. The pigs work the soil into a fine dust which makes an excellent warm bed. Floors up a distance from the ground have a cold draft under them,
and are likely to be wet from the pigs and are lise bedding is changed frequent ly. However, on level locations and in wet climates, where the earth would be muddy, it is necessary to put in a wooden should be well banked with earth or mander the floor, and dry bedding given shaped_cabin is found very satisfactory at brandon, and with straight walls and shingled roof is more durable, but considerably more expensive. Two or more of these cabins may be placed in a row, and the space be piled arainst the sides of the end cabins. It is advisable to keep the pigs away from this surraw, or
they will tran it the cabins. An odd length of woven fencing is quite suitabiee
Brood sows wintered in such shelters as above described, are found to winter aster than in the most elaborate piggery.


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ABERDEEN-ANGUS CATTLE, SHROPSHIRE and SOUTHDOWN SHEEP
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Herd headed by Imp. Edgcote Broadhooks, one of the best breeding bulls in the
Country. Imported and Canadian bred females for sale, bred to the herd bull, some having calves at foot and bred again to him.
This is a choice offering. Prices reasonable.
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## ELMGROVE SHORTHORNS, YORKSHIRES

Owing to pressure of other business I will not hold my annual sale of Shorthormb calves at foot, and also a few choice-bred heifers near young cows, several with calves at foot, and also a few choice-bred heifers near calving. The most select
offering I ever had on the farm and all showing in good condition. In Yorkshres I have several bred sows; a few boars of serviceable age and some
young litters. JAS. R. FALLIS, Elmgrove Farm, BRAMPIION, ONT
Plaster Hill Herd Dual-Purpose Shorthoris
For sale ten young bulls from large, deep milking cows, with records
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## The Salem Herd of Scotch Shorthorns <br> herd headed by gainford marouis, cakada's premier sir



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Newcastle Herd of Shorthorms and Tammorths for selole- $\delta$ choloce bull calvee, 5 to 6 month
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Brod and Owned by R.W. Hobbs \& Sons, Royal Show, Menchestor, 1916. PEDIGREE MILKING Shorthorns, Flock of Oxford Down Sheep and Stud of Shire Horses THE PROPERTY OF
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One of the oldest and largest pedigree herds in
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 1914. The Fifty-Guinea Challenge Cup for the
beest group of dairy Shorthornl at the Royal Show
was won for the third sucressive year at the last exhibition at Manchester in 1916 also at the last
one second and one third prize. All cows inst, and the stock one thils have prize. passed the cows in milikerculin,
tese.
suit all buys anders. bull calves on sale at prices to
OXFORD DOWN SHEEP
The flock was established in 1868, and consists
of from 1,000 and 1,250 registered
Oxfords. the principal shos fows. At many years have been won at at
she last Royal Show first prize was taken for. At singe Rast Royal Show first
prize for pen of Ram Lambs. Rams, Ram and firrt
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A dozen young bulls imported and my own breeding at moderate prices.
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Ontario

The Get of Burnbrae Sultan $=80325=$
Shorthorn Bulls for Sale 1. Successor $=12744=$ = white, born March 29 ,
1918. dam Rosy Bud $=99834=$, by Waverley
$=72804 \mathrm{~m}$ 2. Ravenscraig $=12745=$. roan, twin, born,
Nov. 19. 1918, dam Meadow Beauty 3rd (imp.),
by Ben. Lomond (80488) 3. Meadow Crown, white, twin with Ravenscraig.
4. Royal Sultan, born 15 Feb., 1919, own 4. Roval Sultan, born 15 Feb., 1019,
brother to Succeasor.
Females in calf and with calves at foot Arkell C.P.R. A. GORDON AULD $\quad$ R. No. 2. Guelph, Ont. Mardella Dual-purpose Shorthorns 8 choice young bulls; 30 females, cows and heifers.
All of good size, type and breeding. Herd headed All of good size, type and breeding. Herd headed
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Good ones and priced right. Also have ome 9
months red bull as well as five two-year-heifers in calf to King Dora (imp.). Rhode Island Red OCKETT BROS.

## DUAL-PURPOSE

## Shorthorns

resent offering 6 young bulls, Red \& Roans, also a
urmber of fremales. They have size, quality and ing from good milkey have dizize, quality and
Satsfaction guaranteed. Prices Moder-
Chas. Satisfaction guarantecd.
Chas. Graham, Port Perry, Ont.

They have to take exercise in coming out for food, and their quarters are al-
ways dry. They will prodece larger and ways dry. They will produce larger and
stronger litters than are possible from
sows wintered sows wintered in limited quarters, no matter how comfortable the latter may

## English Pedigree Stock

 News. The value of the pedigree live stock was $f 52,908$, which brings the current year's aggregate up to $62,013,388$, or67 per cent. more than the figures of 1918 at the same period. So far as the year has gone, 4,280 cattle, worth 6468,766
have been have been sent abrod, Argentina being
the keenest buyer of some 788 head the keenest buyer of some 788 head,
reputed (according to the official returns) reputed (according to the official returns)
to be worth $£ 22016 \mathrm{~s}$. 7d. apiece. Some of the cattle, of course, are worth many States has taken 714 head, which are officially recorded as worth 557 eachso much nonsense, if one speaks to the and finds out what they are really here for good class breeding stock. took uring September, Argentine buyers took away from England 284 sheep worth
$£ 361$ 1s. each and the Isited America 454 head the United States of A. e., according to the official returns 4,947 sh this year we have exported average of $\$ 228 \mathrm{~s}$. Urus many sheep for her ranches and she has ${ }^{\text {Ecul }} 0$ s. 11 ld . each. The full Argenth total is 1,394 head, worth $£ 389$ 9s. apiece and that of America is 1,007 head at
£13 19s. 9d. each; while Conada's chases have been 631 head, worth $£ 13$ Pig exports have brightened ably since the autumn. Some 372 head were shipped abroad in September So far this year 698 pedioree. 5d. each. been sent away, worth 611,651 , or average of $.16 \mathrm{13s}$. each. Argentine buying again, and she has taken twenty-
three, of the value of $f 407$ During the year we heve from England 2, 457 horses, worth $£ 402$ 884, or an a average value of 616319 s .5 d
each. We have head, worth $£ 164,326$ or $£ 687$ 6s. each. making big money inther mares- are dispersion of the Erwarton Stud At the ing to W. H. Allen, Harkstead, top price filly foal made $600 \mathrm{gs}$. to $\mathrm{W} . \mathrm{P}$
Cullen, Cressing,
Temple,
Braintree Cullen, Cressing, $\begin{gathered}\text { Temple, } \\ \text { Joseph Watson, Sudbourne, }\end{gathered}$ who hastree Suffolks, bought the finest collections of Her foal made 360 guineas. S. W. A Noble, Wretham, bought six mares and
fillies at an average of $£ 4185 \mathrm{~s}$. H. W
Pita Alites ard an average or 44185 s. 1 . . 20 gurneas, and H. W. Daking, Thorpe-le-
Soken, bought a two-year-old filly for 600 guineas.
The export trade in Hackney horses have sold 128 animals to Holland, 39 to the Japanese Government, and 19' to the hiorses. According to an official return issued by the Hackney Horse Society,
there have been exportd 217 animals of the breed since January 1, and in addition to the countries mentioned,
the United States the United States have purchased 10,
France 6, Norway and Colombia each, Sweden 3, Spain 2, and Canada and action are commanding good prices, and are sought for on account of thices, and constitution and their courage.

Questions and Answers. Miscellaneous.

Learning to Run Gas Engine. In a recent issue of "The Farmer's
Advocate" I noticed an advertisent of a school for teaching the operating
of gasoline engines. This school of gasoline engines. This school was in
Detroit. Is there any such school Ans.-The Hemphill Trade School Lta., are in Winnipeg, Man., with
branches in several cities in the West The operating of gasoline eng ines, auto-
mobiles, stationary tractors, marine, fire and aeroplane engines is taught. We
do not know of any schools in the East.

## Simplicity



THE ALPHA Gas Engine is remarkably simple in construction, which makes its operation very simple-it runs whenever you want it to run.

The ALPHA has no electric batteries, no spark coil. It starts and operates on the magneto onteed to last as which is so simple and well made that it is guar are equally simple in design and superior in workmanship.

That is why the AL.PHA has the reputation of being the best engine buy on the Canadian market.

If you don't know who handles the ALPHA in your vicinity, write nearest sales headquarters for his name.


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BRAEBURN SCOTCH SHORTHORNS 150 Head

100 Breeding Females

## I have at present twelve houng bulls that are now nearing serviceable.) I 1 (imp.

 Brantford 7 miles. Oakland 1 mile. L. E. N. Electric RLES McINTYRE, Scotland, Ontario

## SCOTCH SHORTHORNS

PRESENT OFFERING
J. A. \& H. Freeman, Ontario N SHORTHORNS JAMES McPHERSON \& SONS, DUNDALK, ONTARIO

 Spring Valley Shorthorns Telephone and telegraph by Ayt. KYLE Bros.,. R. I. D. Drumboo, ont. Dar. Sveral 20 Bulls-SPRUCE LAWN- 100 Females-Clydedealee, Shorthorm, Yorkbibires, Herd

 ROBERT MILLER, Stouffville, Ont., Has EIGGT of the best yong bums that he


## SHORTHORNS AT A SACRIFICE

| s bulls 16 to 25 months, must be sold. $\begin{array}{l}\text { Shropshire ram lambs and one shearling. Price } \\ \text { reasonable. } \\ \text { G. T. R., } \\ \text { WYM. D. DYER, COLUMBUS ONT., } \\ \text { Brooklin, }\end{array}$ |
| :--- | WALNUT GROVE SHORTHORNS AND OXFORD SHEEP Wonder. Also a few yeariling and ram lambs for sale. DUNCAN BROWN \& SONS, Shedden, Ontario. P. M. M. C. R GLENGOW SHORTHORNS AND COTSWOLDS

Six-year-old Cotswolds rams These are big lusty feltows and in good condition. I also have four
Stations: Brooklinthorn bulis of serviceable age. Write for prices and particulars.
ctric batteries, nc s on the magneto de that it is guar-
of the ALPHA
of being the best
in your vicinity,

NY, Ltd. NY, CNDAL
vancouver orld over

HORNS reeding Female
The mimity ant ine sootand, onario

## SOLD THE FARM

 44 HOLSTEINS 44The entire Verstella Herd selling without reserv
at the farm near ST. THOMAS, ONT.
Tuesday, December 2nd, 1919
This Sale also includos. Horses, Hogs, Soed Grains, Field Roots, Alfalfa General Sale, 10 a.m.; Cattle Sale, 1 o'clock p.m Included in this sale are--11 daughters of Sir Colantha Wayne with records up to 25.50 lbs. of butter in 7 days. A sister to this sire sold recently in the Chicago Sale for $\$ 7,500 ; 3$ daughters of Flora's Sarcastic Lad with average records of 25.61 lbs , of butter in 7 days and one of which has given 102 lbs,
of milk in one day; 12 sons and daughters of Pontiac Korndyke Plus, a of milk in one day; 12 sons and daughters of Pontiac Korndyke Plus,
brother to May Echo Sylvia; 10 daughters of Lakeview King Inka De Kol bred to start freshening shortly after sale date, and 6 daughters of Sarcastic ayne De Kol.
Every Animal Except Present Herd Sire Bred On The Farm.

DAVID CAUGHELL, Owner,



Auctioneers: LOCKE \& McLACHLIN T. MERRITI MOORE

Raymondale Holstein-Friesians
A herd sire of our breeding will improve your herd. We, have sons of our present, sire. Pontiac
Korndyke of Het Loo (sire of $\$ 12,750$ Het
Loo Pieterje) and aloo sons of our former sire, vondale Pontiac Echo. Several of these are of serviceable age, and all are from good
record dams. Quality considered, our prices are lower than anywhere else on record dams. Quality considered, our prices are lower than anywhere else
the continent. These youngsters should not remain long. Write to-day. RAYMONDALE FARM Queen's Hotel, Montreal
Hamilton House Holstein Herd Sires


D. b. TRACY, Hamilton House,

COBOURG, ONT.
Cedar Dale Farm - The Home of Lakeviow. Johanna Leastrange, the $\$ 15,000$ sire chief sire in service. We are offering a few females bred to him and also have a few buil calves sired

CLOVERLEA FARM HOLSTEIN FRIESIANS Our present offering consists of two choice young bulls ready for service. Priced
right for quick sale. Write GRIESBACH BROS., Collingwood, Ont. R.R. No. 1

## PIONEER FARM HOLSTEINS

My present sales' list includes only bul
WALBURN RIVERS \& SONS
Questions and Answers.
Miscellaneous.
Value of Silage.
What is the value of 13 feet of silage?
Ans.-The dimensions of the silo are to figure out the number of tons in 13 feet of silage. Silage has been figured at foot of silage will weigh approximately

White Wash Receipe. I am planning on whitewashing our
horse and cow stables this fall. I am the lime it will not come off on one's clothes. Could you give me a receipe
for preparing and mixing this whitewash. E.F.A. Ans.-The following is a receipe for
whitewash which has proven satisfactory: Slake a half broven satisand strain it through a fine sieve, then
add a peck of salt, previously dissolved in warm water; three pounds of ground in boiling hot; one-half pound and stirred Spanish whiting, and a pound of glue that has been dissolved over a slow fire. Add the gallons of hot water to the
mixture. This material should stand for a few days before using, and gives
best recults if applied hot. The wash is suitable for either inside or outside work It may be applied with a spray pump.

Important ! ! 30-1b. Hord Sire for Salo-Gipyy Pontiac Cornuoppia, No. 32700


" "PREMIER HOLSTEIN BULLS-Ready For Service. have several young bulls from daras with 7 -day records 4 p to 32.66 ibs. of butter, 755.9 lbs . of
milk, with 110 lbs. of milk in one day- over 3,000 lbs . In 30 days. All are eised by present H. H. herd sire which is a brother to May Echo Sylvia. Step Park Farm,

CHOICE HOLSTEIN FEMALES ! !
I could spare ten or twelve two and three-year heirsily to our 34 lb . sire. Also have a few young
 priced right 4 HOLSTEIN BULLS FOR SALE
from 2 to 7 months old. 2 grandsons of the $26,000 \mathrm{lb}$ cow. 2 great grand sons one from a 23 ll . if.
years old. All sired by Hillcrest Rauwerl Vale whose two nearest dams average almost 30 lbs . of butter in 7 days and almost 26,000 lbs. milk in 12 months. Cheapl considering quality, ONTARIO.
6 BULLS BY IING SEGIS PONTIAC DUPLICATE
 nondale, a grandson of the great May Echo Sylvid. We now have
his sire. Let us know your wants. R. W. WALKER $\&$ SoNs, Manchester Station, G. T. R

Evergreen Stock Farm Registered Holsteins A. E. HULET

NORWICH, ONTA
line early for your next herd sire.
NORWICH, ONTARIO
SPRINGBANK R.O.P. AYRSHIRES Ayrshires win

 good as their breeding. Write at once for particulars from R. O. P. tested dams. and see them
and price, or better, come MOGK \& SON, R. R. 1, Tavistock, Ont.

## Montrose Holstein - Friesian Farms

The Home of 20,000-lb. Cows
Write us about our herd of $\mathbf{2 0 , 0 0 0}-\mathrm{lb}$. R.O.P. p.oducers. Every one is a cholce indi-
 R. J. GRAHAM, Montrose House Farms $\therefore$ BELLEVILLE, ONTARIO

Hospital for Insane, Hamilton
 APPLY TO SUPERINTENDENT

## Manor Farm Holstein-Friesians

If it's a herd sire you want, write me. I have sons of both my aenlor and Junior sires, King Choice bull calves at present to offer-average for two fearest dams, up to 34.71 lbs. butter to

GORDON S. GOODERHAM, Clàkson, Ont. tations: Clarkson and Oakville. Farm on Toronto and Hamilton, Highwis
 OLTBY, R, R. 4, Port Perry, Ont HOLTBY, R, R. 4, Port Perry, Ont. 1. I have a well drilled $\mathbf{1 0 0}$ feet deep. Could this be used as an outlet for tile drains on my farm?
2. What makes my Ford so hard to crank? I have great difficulty in starting it on the magneto. G. M. Ans.-1. It would be a very unsatisfactory outlet.
2. It is not uncommon for cars to crank hard when the weather gets cold. It is possible that the magneto needs cleaning.
Black Oats-Ch!mney Sweating. 1. Where can I obtain main black 2. What will remove the waxy deposit from the inside of a chimney? This depositsettles on the sides of the chimney and seems to cause the pipes to smoke Ans. 1. These oats may possibly be secured irom some columns. We do not know of any farmer having these oats on hand.
2. We do not know of any material that will successfully remove this deposit, ful in removing it, we would be pleased to hear from them, This deposit is frequently the result of cold and causing
or of the chimney being cole dampness. Having an opening in the
pipe just above the stove has overcome the trouble from the chimney sweating:


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## JUST JERSEYS DP calaccimi

coaticook, Que.
City View Ayrshires
 Choice Offerings in Ayrshires


| Gossip. |
| :---: |
| C. E. Wood, whose advertisement of | Leicesters appears in another column lambs for sale from his winning ram

lat and lambs for sale from his winning ram
on the 1917 show circuit. Mr. Wood aims at securing good wool and size, as well as quality.

The National Federation of C operative Live Stock Shippers is being throughout the benent of shippers ing to perfect the pited States. A meet will be perfect the permanent organization the third floor of the Live Stock Record Building, Union Stock Yards, Chicago. On the first day addresses will be given
by such men as Wallace McKernem by such men as Wallace, McKerrow,
Myers, Curtis, Coverdale. Danforth Myers, Curtis, Coverdale, Danforth, and
Hibbert. The meeting on the Hibbert. The meeting on the second
day will be devoted to the adoption of the constitution and by-laws. The work
is this regard that is bein the line might be of benefit to Canadian live stock breeders. Undoubtedly, many pointers regarding such an organization
will be obtained meeting.

Caughell's Holsteins Dec. One of the most important sales
advertised in these columns this season advertised in these columns this season,
was announced last week over David Caughell, R. R. 8, St. Thomas
Dase Ont. Mr. Caughell, ppobably one of
the best farmers and breeders in the best farmers and breeders in Western
Ontario, has sold his two-hundred farm, and his herd which comes before the public on December comes before one of the best opportunities for brreedes to strengthen their herds and new begin-
ners to ners to lay in foundation stock that was
ever offered in Ontario ever offered in Ontario. As seen rece tly
by a representative of this hy a representative of this paper, the
herd shows every evidence of being one
of the best commercite of the best commercial herds we have
seen come on the market in years. The following is a few of the more noticeable
breeding cows, and tin breance, each one of of thonearly every in
or misted, has two
or more daunhters or more daughters selling. Molly Mer
cedes is a $21,000-1 \mathrm{~b}$. 102 lbs. of milk for her highest with Rosa Dorliska a fine, big, eight-year-old
cow has 24.75 lbs. of butter days, while Susie Dorliska, a full sister
has 24.32 lbs . Betsy the largest cow in the herd, has 25.50
lbs., and Daisy Cold Ibs., and Daisy Colanthe, her full sister,
although never tested, is now a four although never tested, is now a four-year-
old and looks to be one of the best offer
ings in the sale ings in the sale. There are a half offer-
or more good record every female offered has been bred as
the farm, they are, of course, of
the above. There will as those mentioned breeding cows fresh by sale time and the majority of the others, including the two
and three year hour and three year heifers will be freshening
between sale date and the middle Janualy. sale date and the middle of
hard sire Po bred to the present is a brother of May Echo Sylvi, which which will also be sold. The offering
throughout is highly recommended, ind
intend intending purchasers will find there, and
be no dill In addition to the pure-bred cated sate, the
ot her farm so ot her farm stock and implements, will
also be sold on the same date interested in is a dairymen might be cured Alfalfa Hay quantity of nicely-
of field roots, all and arge quantity of field roots, all of which will buantity
by auction. Apold and sale biils Appolication for catalogue
Caughell. $R$ R caughel, R, R, 8, St. Thomas, Ont.
Kindly mention this paper when writing.

## bucket of paint and dipped his brush in a

 cket of paint and wiped it across thenvers screval times horizontally. When id carefully placed it in an claborate
"'IM That's the idea?" lis boon companion
"Inirel? quitel.


## SYDNEY BASIC SLAG

Unquestionably The Best Fertilizer For Pastures

## an article "Cane of Paustures" by B. August, Tillet. 1919, appears says in part:- Pastures by B. C. Tillet. Mr. Tillet

It is no easy matter once a pasture has been overted to bring it back to its former rich condition. Artificial fertilizers are very useful in a case of this sort but the right kind must be used or it will be a waste of time. The kind to use is Basic Slag and it should be used at the Where four or five hundred pounds per acre. Where the land has been in pasture a long time two tons of ground lime stone will also be highly beneficial. Acid Phosphate may be used instead of Basic Slag if the soil is exceptionally rich in lime and should be applied at the same rate as the Slag. Generally Basic Slag is

Many Ontario farmers know from experience hat Sydney Basic Slag produces wonderfu many localiticp ind pastures, but there are roduced and ween in earn what it are anxious that you should eanewat hou. We would ppreciate hearing from reliable farmers in such what Sydney Basic Slar will do for in knowing what Sydney Basic Slag will do for them. We May we send you further warticula appeal to them.

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 JAMES BAGG \& SONS (WOodbridpe CPR and London, 1919. Write for price old, sure Homestead Farm R.O.P Ayrshies-At entord G.T.R.) EDGELEEY, ONT used on the daughters of our former sire, Garlaugh Prince Fortune (imeat.). Jean Armount He ing inve beins freshen thin
fall and winter.
Glenhurst Ayrshires ${ }^{-1 \text { If yported and Candile. Belmont. R. R. No. 1, Ont }}$
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Ontario

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Surfolls crosed with no less than ten different
breds have won half the total awaris in the Cromebred Clases at the Great London, England
热mes Bowman, Elm Park, Guelph, Ont.

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 W. F. Somerset, $\begin{gathered}\text { Long Distance } \\ \text { Port Shone. }\end{gathered}$

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 tworshar inited number of shearling and
teorsect ewes. Prices ight.
S. J. Robertson (C.P.R.)Hornby, Ont.

Oxford Down Sheep ${ }^{-1}$ Present, offering
 SAS. L. TOLTON, Walkerton, R. 3, Ontario
Shorthorns and Oxfords for Sale -Two chole -oan errandonn of Right Sort; albo ewee
and lambs, either sex. GBo. E. Fletcher, r.r. No. 1, Erin, ont
Bowhill Leicesters - A few two-shear rams in sheartings and lamse bot bow condition, and several
Shorthorn bulls
and heifers.
ams Geo. b. Armstrong,
Shropshire Sheep ${ }^{-40}$ shearling ewes, 30 two ly from imported stock. and thee-shear ewes, most-
rams; also ewe and ram lambew choce shearing Oshawa all rand rads.
Longedistance phone.
Shropshire and Cotswold Shoop-A Aine ol ot
lot
harge and


## LEICESTERS

C. E. WOOD good size and quality.

[^2]
## The Most Profitable Method

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 is calculated with accuracy by attractive prices for you. It means least experts who have handled exactly the same hog feeding prob lems as you have. They know to a certainty just what Canadian hogs require. The special facilities that we have at our mills andyou have not, insure Monarch Feeds yolways being properly balanced and thoroughly mixed. With these advan tages we have produced a feed that wil not only finish your hogs quicker and
in better condition for market, but it will mean more and better bacon-the will mean more and better bacon-the
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time gets you the time gets you the quality prices. Order a ton from your dealer. You can depend upon detiveries. If your

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hogs. Guarranteed unalysis:
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for fall farrow; extra fine loe of oo litte ovtuff fuat for fall farrow; extra fine lot of little stuff fuse
ready to wean. LESLIE HADDEN, R.R. No. 2, Peflerlaw, Ont Herd Hiclenss puroc Jrrsirs

 cuibert Malott, R. R. Re 3, Whentley, Ont.
Bell Phone. Bred from, the greatest widerea); ror sale-young pla, oht sexes, read
 Meadow Brook Yorkshires -We have a chocice fit for service. alserning number of of laree ititers
ready to wean. All show the best of breeding and exccllent tyoe , MINERS, R R No. 3, Exeter, Ont. Big Type Chester Whites ${ }^{-}$-We condeaned up and Toron



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## Our School Department.

## How Fruit is Judged.

Most of us have visited one or more of the big shows or exhibitions, and have fruit on plates, how the judge ever could decide which was the best and deserved the first place. Now, of course, the
iudge must he might not be fair to everyone who has apples on extibition. Some of us may think that it it an easy job, instead of a harcfone, whereas one must be very
careful or he is apt to make a mistake. Now suppose we imagined we had two plates of apples in front of us, and we will suppose too, that they are Northern
Soys. becanse theso Spys, because these are among the nicest
of ail anples and the
 should we look for in these two pate before we can tell which one is the better of the two?
To do that we must first think what there is about an apple that would make tuibeter than another. Inthc cirste place, we
will probably think that some apoles are will probably think that some apples are cyser wan othersi and we know that
when we eat an apple we do not want it to be too small, because then there would $b$ b too much core with the result that there the other her bevery much of it to eat. On the other hand, apples that are very very
large have not the same flavo arge have not the same flavor as apples
of a moderate sizz, so that we must see that and the eate spies on on the that we wute we choose
ond as the winning one are big enough to be called good Northern Spys, but are not avergrown. Size is not a very important
point, but still we must conside T,
Mest of us will look immediately to they are green and untipe. Color is Very important in judging feruit of ail
kinds becruse kinds because as soon 'as fruit begins. to
pet ripe and read
to get ripe and ready to eat, it alaso beevins
to color up. Most peoole too will bwy to color up. Most. people, too, will buy
fruit that is. highly colored in preference
 when we are judging our two plates of
apples we must remember what the consumer or the market demands. It is
not possible to ger too
 conclude that the plase of of apples thet has the most color is best in this respoct. throw big appose one of these plates and has while the other has five appleste thates, moderate in size. What should we say that one plate lacked duniformiately and this would be a very serious fautt because if we go into a store to buy some apples we would not buy a basketuul if
half of them were very other half very lareve. very We would want
them the is true with remand size. The same thing not want half rof them green and the outher te are fudging The res witt is that when many resperts just as as if we judge them in
them tere buying them, and this point regarding uniformity is very important-just as important as
color, in fact
which suppose, alter we had found out and uniformity we toter insize, colot asain and found that one of them over or a bir, a blackits, or had a worm- woo to side. What should we do winh this apple? or
Once more would do if we were buyinst ther what we such as the codding moth, and diseects such as apple scab, do many thousands of Collars
crops damage every year to our fruit
chat corpes, and frut growers have to spend
ar reat deal of time and monev in careully spraying their treand money in carefully
spresp troublesome pestses. Is it keep away these
man who enos tair that the to produce geles, tresh this truit shoule in ord not be Tewarded in some way for doing so?
Good judges at exhibitions think that
they shoul look very closely for worm andes and will
 thonet will try and scrape off a scaboby
spot, or, if the worm liole is a small one
will julge will not cove it up hop hing and will that the they have spraved carefilly and ieve that
good fruit. The iulted good fruit. The judge, however, knows
people to grow wormy and poor oo that if the worm hole is at alar bad he
vill throw the not give it a prize out altogether and name tuing is true where there ario the in the side of the apple so that the bles is cut through and the flesh the sam Such wounds will not heal over and wiil spread rot if alongside of other appics in a barrel or box Sometimes wite an
apple is being picked for erbil apple is being picked for extibition the
piderer will get careles and n will the out. This exposess the flesh the tend is just as bad ase hole in the sicide of the apple. Sometimes the stem mid put thack
in again to make the iudge bali in again to make the judecem beliove it mack not pulled out, but a good juldese will
alvays try the stems to ose loose. thy the stems to see if they and
Now we come to perhaps the most
important point of all, and that is ${ }^{2}$. quality of point of thil. How the that a juder tell the quality firt He almost never uits It is pretty easy to tell rather by the looks of an apple whether it is of of tood quality or not. Most of us tnioo t tust by experience and can pick out a good epple
from the ton of a bick on it open. We do this by looking att the


Mummified Plums.
This is caused by brown rot, and they should be
picked of and burned. The disease
winters in them. winters in them.
size and the color to see whether it is rive enough. An apple that is fully ripe will be as of quality as it ever will be if we apples will be very red outside, but color we will at what is called the under color we will find that it is, still very green. and pears, as well as in peaches. Thiese are called the under color, which shows up before the apples begins to turn red and the body color which is the red itsell, and comes arter the apple begins to ripen the ground color one can get a good idea of the quality of an apple, and this point is very important.
Now there is one other point that we
must look for and the the apples on lid Northern Spys. To find this out, we must, of course, know what these varieties look like, and it is pretty easy to tel one variety from another by the shape of shaped as nearly alive plossible cause that adds to the uniformity of the plate, and may also mean that the fruit on the plate is more likely to be all of the same variety
Thus we have covered nearly all the points about these apples that we need is the best. We have looked them all over carefully for size, color, shape reedom from blemishes, uniformity and quatter to size them bomparatively eas we have found out and give the first prize to the best one.

Teachers are invited to discuss schoo problems through this department. An be helpful to all.

Burn the dead vegetation and plow
the school garden this fall if possible. Insects and fungous diseases harbor in the rubbish about

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