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LONDON, ONTARIO, OGTOBER 19, 1916.
No. 1256

## Glass

## Door

## Isn't this a wonderful Oven

## Tested thermometer

 Walls of nickeled steel Economy flue system VentilationWHAT more could be added? Here is an oven you enjoy using, an oven that saves your fuel, and that helps you serve finer meals than you ever thought you were capable of cooking.
1 The Glass Oven-door saves all the time you use to spend getting up and down to watch your baking. Now a glance, as you go about your other work, tells you how everything is baking in the oven


2 There is no guess-work about the heat of this oven. 2 That is because we test the Pandora Thermometers. When the Oven is right, the thermometer says so. Now, that means a lot in having your bakings always the same.
3 And should the cooking bubble over, the Pandora oven 3 is so easily cleaned. The quick-heat steel used in making the oven walls is heavily nickel-plated. No metal could be more sanitary and rust-proof.

4 But the saving of coal-one of the natural reasons for the success of this wonderful range-is not all made by the special walls of the oven. The nickeled steel allows beat penetrate into the oven very quickly, but it is the chlary flue system that directs the heat twice around the oven and stops the usual wastage.
The Ventilated Oven carries off all cooking odors
You know what that means-no smudge or dis. agreeable odors around the house at meal times. off this

## McClarys Pandora Range , "The Magic of the Pandora."

It won't be hard to decide which range you want to have in your kitchen after you learn werything about the Pandora. You can stud in vour own home by reading the booklet we
have prepared, "The Magic of the Pandora
The whole book is clearly written and illustrated. There is a copy for every one who wants it. Send the coupon to the factory.




## GIVE

 and HEAL!An urgent call for help again goes forth from the Motherland's mighty lifesaving agency-the British Red Cross. The Empire is called upon to give greatly, give lovingly, give quickly, that the sick, wounded and suffering on all the battle fronts may not languish and perish in their hours of deepest need.

Here is a great work in which all can share. The Joint War Committee of the British Red Cross Society and Order of St. John is the only institution which carries voluntary aid to the sick and wounded of the Thousands of lives of our bravest and best are saved through this splendid work. YOUR gift may save a life. Isn't it worth doing? It is. GIVE !
Make "0ur Day" Your Red Cross Gift Day

## Give on Oct. 19

The Red Crbss looks after the transportation of sick and vanded-it equips thousands of hospitals, rest and convalescent homes. It supplies countless requisites for hospital work, clothing and other comforts. Over 2,000 Red Cross Motor Ambulances are at work on the various fronts while "rest stations," hospital trains, steamers and launches, food for prisoners, books, special work for the blind, etc., etc., are a few only, of Red Cross activities.

## The Sick and Wounded

 Call for Your HelpGive on Oct. 19

Ontario's princely gift in 1915 of $\$ 1,514,000$ rang, a clarion mercy call, throughout the Empire. The British
Red Cross were grateful beyond measure, and their appeal Red Cross were grateful beyond measure, and their appeal friends who sympathize and help. The need is greater today than a year ago-it is ever growing. Will Ontario do less than she did last year? No! GIVE-give a day's pay, give all yo, u can, GIVE.

Premier Hearst Has Seen the Work "My visit to England and France has aroused deeper appreciation than ever of the splendid work of the Red Cross. It deserves every support, and I trust the people of Ontario will respond with their usual generosity to the British Red Cross

HON. W. H. HEARST, Prime Minister of Ontario

Your gift will go entirely to the British Red Cross, where, again, through much voluntary work, the working Thus, if you give $\$ 10$, actually $\$ 9.771 / 2$ goes to the healing and saving of some stricken hero. The expenses of the Ontario Committee, advertising, printing, etc., are being met entirely by the Provincial Government.

Mr. N. W. Rowell, K.C., Brings a Red Cross Message "I bring a message of cheer to those who have relatives at the ront and who fear they may be wounded. I believe everything human kill can do, that human care and sympathy can provide, is being done Medical Corps and the Red Cross. It is a perfect marvel of efficiency.

MR. N. W. ROWELL, K.C
Leader of the Opposition


Wounded in the Trenchee-Official Film, "Battle of the Somme.

## THE LOUDEN CARRIER

-helps you solve your labour problem

THOUSANDS of Louden Litter Carrier outfits normal, and they have since normal, and they have since given daily demon-
strations of their value, as savers of time, labour. How much greater this value today when farm help is scarce, and high in price. Secure
a price on a complete Louden Litter Carrier outfit from our dealer in your locality, or from us direct. You will be surprised at the low cost of the equipment, which lasts a life-time, and at the saving in the cost of performing a hard and e task.


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## WEST INDIES

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October 20,1916

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TO matter how fiercely bleak winter rages, this house is bound to be comfortable, because the plans call for Gurney-Oxford Hot Water Heating This is the comfort-yielding, blizzard-defying warmth that fills the whole house with a "homey" June-like atmosphere-healthful because the moisture is


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Generally put in the cellar Onlyone place in the houseto carry fue to and ashes away
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Gurney-Oxford Hot Water Heating unfailingly sends an ample, gentle, healthfut volume of warmth oo every room, hall-way or corner. Just one fire is neededthrough all the piping and radiators. If more heat is needed to meet the cold, the faster will be the flow. It is entirely independent of any water system. A few buckets of water in the pipes and rafiators are all that is needed for the winter. Use either coal or wood as you select. The
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Lepends on the size of the house. Any house can be equipped, rew or old. For a house like the plans shown here, wiph 516 feet of radiation the cost for Gurney-Oxford Boiler, Toronto; bought of any fompetent fitter. Labor and irreght will be moderate extras.
installation wonderful comfort, the method of operation and installation of the Gurney-Oxford Hot Water System are fully explained and illustrated in our new booklet "City Comfort for many satisfied users. The book is free, you should have from to-day and make up your mind that your home is going to be omfortable next winter. Address


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The fact that the Alpha is not affected by cold weather is one of its good points that is especially appreciated by Canadian users. The all loads by the quickest acting and most sensitive governor ever used on a gas engine. There is no waste of fuel and the engine runs steadily under all loads-light, heavy or varying.
a simple Apha has no troublesome batteries. It starts and operates on ably simple and assures you of a hot, fat spark at all times. You can use either gasoline or kerosene for fuel.
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will agree with Alpha users that this engine is in a class by itself, and gives you the most for your money.

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## Make the Change Now

When Writing Please Mention thisPaper


$T$${ }^{4}$ HESE are the days of heavy horse power expense. The horses are idle. Hay and oats are worth so much it's a shame to use them for feed. It takes five acres of land to raise enough to with prices higher than for years past. The market for horses is so good that, even at these higher prices, they are easy to sell. What better time could there be to consider replacing some of your horses with a Mogul 8-16 kerosene tractor? you are now doing with horses- the tractor does it better and You are now doing with horses - the tractor does it better and
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Ail Rrauden, Calary, BRANONCHM HOUSES
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## EDITORIAL.

Fences carelessly riddled in the fall must be re paired in the spring.
Pig breeding always suffers when grain is high in price. Save the brood sows

Now is a good time to buy a choice steer. It is never a good time to purchase a scrub.
It will be a "lean" winter for some of the live stock on farms where there is no corn:

That door hanging by one hinge would give better service if a few screws were put in the other

What a man will do to get into parliament, and ance there what will he not do to stay there

The fall drive is on. - Hasterr the work to completion before Jack Frost closes this season's campaign.

It would be foolish for breeders of all the dair breeds to promote a claim that they have the real dualpurpose cow.

Fall plowing is a great appetizer. Who can eat with greater relish and sleep a sounder and more refreshing sleep than the plowboy

No one outside the farming population seems to hink that it costs the farmer more to farm to-day than it did twenty years ago

There is no doubt about the final outcome of the war but more men are needed to take the rest of the "punch" out of the Teutons.

An expert has estimated that a farm housewife in the ordinary course of a day's work lifts one ton of water. Now will youi put in a water supply for your wife?

Canada's wool clip is worth considerable money annually. It would bring still more if all were sold under the system or systems outlined in a lengthy article in this issue.

Have you swept the summer cobwebs from the walls and ceiling of the stable? After getting them down give the old stable a coat of whitewash to which is added a little disinfectant.

One of the best features of a county small fair we have seen this year was the special exhibit competition put on by Junior Farmers residing in different ownships of the county. Fair Boards would do wel to promote this work by offering substantial prizes

Some of the crudest games of chance, ring and ball akes, are assembled at the county fairs and yet the fakir gets many hard-earned dimes. Surely there must be a lack of real amusement in rural districts otherwise the fall fair fakir could not exist as such Or it may be true that people like to be humbugged

The greatest empire the world has ever seen has been built up by a policy of allowing the daughte nations to manage their own affairs. The happies and most contented families are those where the boy and girls, when they reach manhood and womanhood, have something their own which they manage them selves. Too much central control is not the best thing for family or nation.

A Dangerous Dual-Purpose Dream A few years ago, when certain breeders of Short horn cattle commenced to lay emphasis on milk production in the breed, byreeders of the specialized dairy breeds, smiled a while and then emphatically proclaimed, that there could be no such thing as a dual-purpose cow. Thinking breeders of Shorthorns recognized that it was a difficult task to breed up and establish the dual-purpose type, which if it means anything, should stand for meat and milk, both in fair amount and neither to excess, In Great Britain, considerable success has been attained. In Canada and America, may be found at the present time a considerable number of cows carrying fairly good Shorthorn type and a reasonable amount of mellow fleshing, which at the same time, produce in a single lactation period anywhere from 7,000 to 10,000 pounds of milt Some go mixh higher but the maiority of miles Some go much. ing on the specialized dairy cow type, and we have always held that the breeder of dual-purpose cattle was getting on dangerous ground when he shoved milk production beyond 10,000 pounds and he is much safer to average around 7,000 pounds. Our contentions are borne out by the appearance of the calves from many of these heavy producers.

But this is not what we started out to discuss. Previous to the time Shorthorn men began to boost milk in their breed, little or nothing was heard of the milking qualties of the Hereford, the Aberdeen-Angus or the Scotch Shorthorn, and no one took very seriously the man who boasted about the beef qualities of the Holstein; the Jersey, the Guernsey or the Ayrshire, although the last-named breed, being a hardy, rustling sort, produced some fairly good, light-weight steers Everything is changed now. There are Holstein men who call their breed the real dual-purpose breed; there are Ayrshire men who see dual-purpose characteristics in their breed, and no doubt some Guernsey and Jersey reeders could be found to praise their respective breeds for their dual-purpose value. We have heard Hereford men talk about their cows being good milkers erefors do likewise. There and Aberdeen-An breeders of the special seems to be no good reason wh bredrought to the pre zed dairy breeds would attempt to sent high standard of perfective she their breed lead themselves or others to believe that thir breeds are dual-purpose cattle. It would a mistal make, or attempt to make, dual-purpose anima out of Holstein herds which will average upwards of 15,000 pounds of milk per animal per year. The same s true to a certain extent of Ayrshire catte. The Jersey, small, economical and efficient, is essentially a butter cow. The Hereford is a great grazer, a good feeder, a maker of big gains, and essentially a bee animal. True, breeders may require their cows to give a fair amount of milk, but they should not emphasize the dual-purpose nature of the breed. The Aberdeen Angus, winner of the strongest competition in the big tests, like Smithfield and Chicago International is essentially and must remain a butcher s beast. The Scotch Shorthorn, a successful competitor on many ocesions in the beef ring, must not be ruined by a daren of strictly dairy-bred Shorthorn dangre is a dual-purpose Shorthorn; there is ad Shere being a dairy-bred Shorthorn, she excellence of present wich dairy breeds. Why run the risk day specialized dare essentially milk of spoiling other breeds wich upon decade hav breeds or beed breds? breeds to the present passed in the brig. day perfection. This work muse There is room for only one dual-pupose breed, an many believe there is litle room . Shorthorn has the call on this place, otheeders for the good of their respective breeds should let go at that

## The Man Responsible

We occasionally hear a man grumble that his land is poor and therefore he cannot make a success of his farming operations From extensive are inclined to believe that in the majority of cases small crops and poor returns are not the fault of the farm, but of the farmerv We have seen abandoned blow-sand farmis so poor that they would scarcely grow twitch grass, mulleins, or milk-weed, converted from barren plains to fertile fields. The mian who cropped them to death and was responsible for their"disintegration into the blow-sand condition fally decided that he had a poor farm, so poor in fact that it crowded him off. The other man saw possibilities in the land for when he dug into it, he noticed that it contained moisture even in the driest summer solison. He knev also that his predecessor had ofopped and teropped, taking away year after year and returning nothing. He started with sye ab abowithe ornly shmy that would grow on the sand and he plowed in the\%coop; he put what manure he could "scrapertogether von the land, but relied chiefly on green manuring In adeason or two the land responded with a fine ch cheblrid clover two the land responded with a ine catchidured clover, and to-day not the farm.
We have
We have seen a wet farm crowd its oyjtit of apd he complained that it was the fault of the armas Anotne man came along, saw possibilities in thie fand which he picked up at a small price, bought it, and spent a few dollars per acre in tile drains ${ }^{\circ}$ Now, the Pratm' is one of the best in the neighborhood. It always was but it needed a farmer, who understood ftand wa willing to lay out a little money to make more money. Too often men are short-sighted, saving a dollar to put in the bank at three per cent. whiche properly invested in something to build up the farm might in a few years make them three dollars to bank instead of one. When you hear a man grumbling thit it : the farm's fault because he has not made a suecess, o when you yourself are inclined to-blame things on the land, remember that there are several chances in the farm's favor and that the man is likely most to blame

## The Eight-Hour Day.

Across the border there has been, of late, considerable agitation re an eight-hour day, and railway men have succeeded in getting legislation to that effect so far as they are concerned, and now there is tall of a universal eight-hour day in that country. It interesting to note that through the past decades the tendency, particularly in cities, has been towarde shorter hours. Even the farmer does not work from daylight till dark in harvest time as he once did, al though his hours are still long when chores and odd and ends are considered. The ten-hour day is practical ly universal on the farms in this country at the presen time, but it would take considerable persuasive powe to make the farmer believe that he would get mor work done and greater efficiency from an eight-hoi day than from the present ten-hour system. A universal eight-hour day seems a long way off and for the sake of the man on the land we hope that it is. We would like to see him get as short hours as possible, but in the rush of seeding, haying, harvesting, and fal work the eight-hour day, with the available labo supply, would be an impgssibility

Some city writers seem to think that because the necessaries of life are rather high in price at the present time farmers have been lacking in leadership. Perhap they have, but it pays them better, sometimes, to set a fair price for a smaller quantity of produce than to be fore to take a price soll that it leaves only a mere pittance of profit

The Farmers Advocate The Trouble With Co-operation in AND HOME MAGAZINE

THE LEADING AGRCULTURAL JOURNAL IN THE

## THE WILLIAM WHELD Colv by

 John wELD. Manager:
## Asente for Tarmer's Advocate and Home Journal. Winnipeg, Man.

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## Taking it Out of the Land

A tenant farmer in Ontario is very often looked upon as a poor farmer. Why? Largely because it has been the custom in the past in this old Province
for the tenant to get as much out of the land as possible and put as little back as he could -a poor system for owner, tenant and the farm. Short-term Ieases have been largely responsible for this state of affairs. Leases for one yeart twoyears or five years are too short. The tenant crops every field he can for the length of time of his lease and the last year puts the whole thing into cerel grain and leaves the place in poor condition for the next man, who operates on the same principle. We do not mean that all do this, for there are some good tenants. One of the best tenants we ever knew made
the remark one day that he farmed his farm exactly the remark one day that he farmed his farm exactly the same as he would if he owned it. He paid a high sental, was alwayb able to meet his rent at the appointed
time, saved money and finally became the owner of farm of his own. He rotated his crops, kept a large stock, fed all he grew on the place, returned a maximum amount of fertility to the soil, left the farm in better condition than he found it, had it rented on a ten-year on the other principle of short-term leases, large acreage of cereal crop, grain sold to meet the rent and other expenses, little stock was kept, a minimum of plant
food was returned to the soil and the farm in ten years went down and down, the rent had to be lowered years tenant made only a living, the landlord lost money, the farm suffered and the community was injured thereby. Elicyone loses through a tenant working really gets much less than he would by working the land well and systematically. It is always short
sighted policy for tenant or owner to mine the soil We receritly attended a fall fair where all the cattle
on exhibition ran loose in a field. They were or gubessed at, all rumning toget her. Of what educational value is such a practice? ? te is the Directors'
place to make rules and see that they are carried outt.

Canada.
o-operation is a word that has been much used and almost. "ridden to death" by journalists and public speakers in Canada, but they should be excused on the grounds that a wrong existed and they selected his movement as a remedy for the ailment. It like a small boy has often presred the the patient, ke and at a taste is the along jome. A disagreeable and figuratively speaking, bad taste to many Canadian people who have tried it The system of getting together has done a remarkable amount of good, and in many lines it is a wonderful factor at the present' time. Both East and West is bringing the grower more for his product, and supplying him with the necessaries of life and occupa tion at a reduced price. In spite of that, from one end of Canada to the other, one will find members of the different associations who are dissatisfied and who are disrupting the local institutions that have been built up to alleviate some unfavorable conditions the community. Co-operation, both on a large and small scale, bas proved a success in many cases; why is it not universally so?
In the first place the spirit of the Canadiafn people does not correspond with what has long been preaghed We need not repeat these attributes here Superator t to say that repeat these attributes here. Suffice thing but a purely commercial proposition, intended to bring about more favorable prices and needed reforms of a mercantile character, it is not receiving a
fair show in this country. The people of Canada fair show in this country. The people of Canada not care to divulge family secrets dollars may result thereby. When they enter into an agreement they wish to know the extent of their
obligations and their probable revenues. "Unlimited liability" will never become popular here, but it does appear to be the fullest expression of true co-opera-
tion. Farmers in this country will invest their good will, patronage, and so many dollars, nevertheless they will not sell themselves to the movement or make co-operation a pseudo-religion with them or accept as a new god.
The staff, and the salaries paid them, are often the cause of much trouble. Members fail to realize is doomed from the beginninger the organization man is required for a beginning. A more capable private business of the same andian andion than for men with business acumen magnitude. Available they are in a position to command a anywhere. When a manager is receiving anthin like a fair wage from a co-operative ex and members too often feel that money is being , ie extravagantly. A small association cannot afford to hire the proper kind of a manager, and they expord to difficulty from the first. What it costs to sell a barrel of apples, a pound of wool, a bushel of wheat any unit from the farm is one factor to consider; another, is what the unit sells for. If the net pro ceeds are in excess of what might have been obtained without the organization it matters not if the manager is receiving five or ten thousand dollars per year, or the member is still ahead of the game
Once in a while factions arise in the association to the movement. A get control. This is disastrous co-operative associations in the country recently suid to the writer: "The average grower is no better qualified to select a manager for his business than This is significant. A few can often influence the many and have the wrong man appointed. ompare their average receipts with rers frequently somp outstanding man in the with the returns to correctly speaking, the comparison is made
cont correctly speaking, the comparison is made and brought
to the members' attention practice is obvious; someone desires to stir up strife and dissatisfaction within the ranks. They have usually more or less suspicious of undue profits on the part of someone on the inside. These suspicions are not always groundless, perhaps, but the books of every co-operative company should be audited
washed let it be cleansed and cleansed thoroughly by the members themselves, A reliable auditor would do much to inspire confidence, and prevent a small error growing into something sufficiently formidable to wreck the organization.
With further regard to prices one must consider conditions prior to the inception of the association Sometimes a co-operative movement in a community will do as much or more for the independent producer as it does for a member. The standard of quality is often improved, new markets are exploited, gestion averted, and, on the whole, a relieved state of affairs is brought about. Any improvement in transportation facilities or conveniences which can be credited to the association is also there for the nonmember to enjoy. Furthermore, the independent grower is frequently paid a higher price for his product than the co-operative member receives in order to create a feeling. The purpose of this is easy to comprehend, and is one of the most effective weapons employed by the enemies of the co-operative move ment. The broad-minded man will ignore rumors and hearsay, they are usually started rolling for a purpose. If a grower prefers to remain outside an rganization of this kind it will do him no good, but probably harm, to put obstacles in the way of time Hel the thing prepared all the Co mation in Cas trouble is with the people who too often abuse it

## Too Much Work!

Farmers are too often little more than day laborers. They work so hard for long hours each day that they have little time or inclination to plan a system of management for their farms. They do too much work and not enough thinking. True it is that labor is scarce and work must be done, but it is possible on most places to lighten the labor considerably by planning it better. The majority of Ontario farms, particularly since the war began, are one-man farms, and the farmer must keep "slugging" away from early morning till late at night in order to keep the place running, the chores done, crops harvested, and to manage any preparation for next season's crop. It takes considerable country spirit and pride in the ownership of land with good stock, to lịve down the lure of the town or city with its shorter hours and more leisure. It will take that ank on the part of city people to convince farmers that, under present conditions, there is not too much is a business farm. Farming, properly carried on, make it the success requires ability and energy to desires to is called The man at the werk with his hands all the time. valuable work with his of big business does his most the same should be true of in no uncertain measure mean by this that be true of the farmer. We do not his hands, because under conditions they will obtain in Canada for some time, it will be secsary that the farmer work as well as think. But he should have enough leisure time to lay and carry out plans, There should not be so much work, work, in the business of owning and operating a farm to tie the owner up for fifteen or sixteen hours every day in the year with the exception of Sundays, and for five or six hours on each of these. The most successful farmers are not always those who slave and serve all their lives, but are very often found among those who exercise a certain a mount of the trading instinct, buying here and selling there to advantage, and using a certain amount of their leisure time in planning the farm work, believing it good policy to pay someone else a liberal wage to do a great deal of this work, releasing the owner and manager to carry on the straight business of the farm. No one can blame the farmer and his wife, growing older on the farm, if they both yearn for a less stremuous life, retired in the near-by town, and yet we have seen so many leave the farm and move to town and ever after be dissatisfied, wishing themselves back on the land. After all, there is, for the man who has lived his many years on the farm, a certain something in farming which gives him greater pleasure than he can find elsewhere, although it may be that it is necessary for him to try the town or city in order to be convinced. to do himself to barmer has altogether too much work his business

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as he works his hands and in so far as possible lighten the actual labor of the farm. And the same is tru of the farmer's wife.

## Nature's Diary

There is no group of insects which has, since time immemiorial, This is due, not to bright coloration or to any musical ability, or to the structure or activities
of the individuals as such, but to the activities of the complex colonies in which these insects live, and in which man sees a form of society much akin to his own. This resemblance cannot be superficial, but
must depend on a high degree of adaptability and must dasticity common to man and these social insects, for in order to live in permanent commonweatths, an organism must not in environment, but must also have a strong
changes in its feeling of co-pperation and forbearance towards the othe
members of its community. members of its community.
There is a striking parallelism between the de
and societies. Anthro velopment of human and ant societies. Anthro pologists distinguish in designated as the hunting, pastoral The ants show stages corresponding to the first three The ants show stages corresponding thether there are
of these. As Lubbock says: "Whet of these. As in advancement within the same species or not, there are certainly considerane may almost
between the different species, and one may fancy that we can trace stages corresponding to the principal steps in the history of human development. I do not refer to the slave-making ants, which represent
an abnormal, or perhaps only a temporary state of things, for slavery seems to tend in ants as in men, to the degradation of those by whom it is adopted, and it is not impossible that the slave-making species
will eventually find themselves unable to compete with those which are more self-dependent, and have
reached a higher plane of civilizatior. But putting reached a higher plane of civilizatior. But putting
these slave-making ants on one side, we find in the different species of ants, different conditions of life curiously answering to the earlier stages of human
progress. For instance, some species, such as Formica progress. For instance, some species, such as Formica
fusca, live principally on the produce of the chase, for though they feed paitially on the honey-dew of Aphids, they have not domesticated these insects,
These ants probably retain the halivits once common These ants probaby resemble the lower races of men,
to all ants. They rese
who subsist mainly by hunting. Like them they who subsist mainly by hunting. Like them they
frequent woods and wilds, live in comparatively smail communities, as the instincts of collective action
are but little developed amơng them. They hun are but little developed among them. They
singly, and their battles are single combats. Such species as Lasius flavus, represent a distinctly higher
type of social life; they show more skill in architecture, type of social life; they show more skill in architecture,
may literally be said to have domesticated certain species of Aphids, and may be compared to the pastoral stage of human progress-to the races which live on
the products of their flocks and herds. Their com the products of their flocks and herds. Their communities are more numerous; they act much more in
concert; their batties are not mere single combats, but they know how to act in combination. I am disposed to hazard the conjecture that they will gradual-
ly exterminate the mere hunting species, just as savages ly exterminate the mere hunting species, just as savages
disappear before more advanced races. Lastly, the agricultural nations may be compared with the harvesting
ants." ants. Ants are to be found everywhere, from the Arctic mountains to the shifting sands of the dunes and seashores, and from the dampest forests to the driest deserts. Not only do they outnumber in individuals
all other terrestrial animals, but the number of colonies in a comparatively small, area is often very great.
Their colonies are, moreover, remarkably stable, some times outlasting a generation of men. Such stability is, of course, due to the longevity of the individual seven years, and queens from thirteen to fifteen years. Considered as a group, economically, ants are both
beneficial and harmful. Their greatest usefulness lies in a direction which is, like many of the things which act very gradually but continuously, usually Of the millions of insects which are born annually many are undoubtedly consumed by insectivorous verte death and fall tast number survive to die a natura food of most ants. Forel observed that a large colony of ants brought in 28 dead insects per minute, and
estimated that they would bring in 100,000 daily during the hours of their greatest activity. Their other useful activity is their work in the soil in the excavation of their nests. Most species, especially in temperate
latitutes, nest in the ground, and many of them in so doing, are obliged to grind up and bring to the
surface, often surface, often from a depth of several feet, considerable quantities of subsoil. This is spread over the surface, moren
morevere, quickly conduct air into the deeper recesses,
of the soil. fostering of Aphides, Scale-insects and Tree-hoppers insects which are most injurious to crops; and by
taking up their residence in houses and either partially destroying the woodwork thereof, or becoming pests berause of their pilfering habits.

THE HORSE.
When Mare and Foal are Separated. An interesting article by "T. B. G.". giving details
in foal weaning recently appeared in "The Farmer in foal weaning recently appeared in "The Farmer
and Stockbreeder." We reproduce it for the benefit of our readers. In weaning foals the first thing is to find a good airy llose-box with plenty of room, and secure
fastenings to the doors. shit up out of hearing of the mares foals must be may then be let out into a well-fenced paddock in which there is a good bite of grass. Foals should always be weaned in 10 ots of two or three together, another for company or sell it. A foal weaned by itself is always miserable, discontented, and eats his feed badly. When turned out of doors it is certain to break a poor chance of getting any grain. When foals are shut up they should have some gréen stuff cut for them clivener, alfalfa, or something of the kind-and be given plenty of crushed oats, bran, and chaff, with a
tub or trough kept full of fresh drinking-water They are usually very agitated for a few days, especially if they have been suckled on idle mares and never been parted from their dams, and are consequenty hot and thirsty; but foals on work-
ing mares that have been accustomed to being shut ap, very soon settle down. The mares must be taken right away, so that they and the foals can-
not hear one another; and if shut in a yard nights, and gently worked in therdaytime and fed on dill dry
they will sor up after one or two drawings of the udder.


Dunnottar (imp.
Champion Clydestale stallion at Ottawa for B. Rothwell, Ottawa, Ont.
bran and some hay must not be forgotten in bad weather. The growth of a horse depends to a very great extent
on the treatment he receives during the first winter on the treatment he receives during the first winter
of his life, and if a foal is stinted and starved during
his first winter he does not make up the lost ground his first winter he does not make up the lest ground
until he is five or six years old. Good feeding and to enable the kind in rough weather are essential and come through it robust and blooming
Rock salt should be placed in the paddock for
the foals to lick, and a keen look-out should be kept the foals to lick, and a keen look-out should be kept
for the presence of worms. If a foal looks harsh and staring in the coat, witha pendulous belly, and gradually loses flesh, with perhaps a touch of scour sometimes, then worms are almost certain to be present, and the
dung should be ekamined. If worms are present, dung should be examined. If worms are present, a
dose of physic should be given to expel them. Ten to fifteen grains of calomel in a bran marh, given two or three times at intervals of twelve hours or so, followed up by a dose of linseed oil, is a very effectual remedy,
Worms, however, seldom, if ever; attack a healthy, Worms, however, seldom, if ever; attack a healt
thrifty foal which is getting plenty of good food.

Then there is the question of shelter during cold
weather. Neither weanling foals nor young and wet weather. Neither weanling foals nor young
horses of any description require coddling but in cold horses of any description require coddling, but in cold,
rainy weather, a shelter for them to run in is a great rainy weather, a shelter for them to run in is a great
help. Many hundreds of its in Britain, are wintered without any shelter at all other than such shelter as
they get from a tall, thick hedge. So long as the weather they get from a tall, thick hedge. So long as the weather is dry, no matter how cold it may be, they will take no
harm; but cold, wet weather they feel, and many a good youngster has died as the result of a chill and inflammation through undue exposure which might kind provided.
It is often said, and with soine degree of truth,
that if a foal is well-looked after during the first winter hotecturnay thenthox winteif
 live on pretty rough fare
during the greater part of the year, but in winter time they require a certain allowance of grain. Weanling
foals should on no account
be run with older horses, or be run with older horses, or
they will never get a chance at the grain, and when several foals are run to-
gether there should be
plenty of trough room, for
some are very materfu some are very masterful and
greedy, and will drive the
weaker greedy, and will drive the
weaker ones away if they
can. Another point to be can. Another point to
attended to is the foot. On soft, spongy, or lowlying land the hoofs soon grow long and irregular in
shape, and the blacksmith shape, and the blacksmith
should have a turn round should have a turn round
them pe riodically and keep
them in proper trim Young them in proper trim, Young
horses need a little care and horses need a little care and
attention just as much as attention just as much as
other young animals on
the farm, but it is often the the farm, but it is often the
custom to make them live custom to make them live
on pastures and under on pastures and under
conditions that would prove disastrous to other animals; They certainly will "rough", The sooner foals are weaned in autumn the of stock, but the better they are treated in their youth
the sooner will they grow into money and be able to better if aals are intended for sale, in which case it may be advisable to let them remain on the mares up to the time of sale; moth old it will do well off the dam as on, provided it is fed on the right kinds of food. Where mares have to take their part at the farm work, it is better to wean the foals before harvest, or April, than to let them agitate after the mares from or Apri, till night and suck overheated milk. Provided the foals are well looked after and given plenty of chaff, and the run of a some time ago before commencing harvest, and they look every bit as we. as they did berore weaning ndoed as well as those whe mares until late autumn is of no benefit to them, and the dams get into a low, weak state, from which they do not recever till spring. It
is especially detrimental to marés that are in foal again. is especially detrimenta lo mares that allowance of grain right through the winter months till the grass comes the following spring. They should always be taught to eat grain in the early stages or heir existence, in getting them on to it. If they have never tasted any grain they may be three or four days before they will touch it when shut up for weaning, and they soon for foals than crushed oats, and these should be mixed with a little bran and some good, sweet chaff, but not much of the latter until they get older. The quantity given swill eat a peck a day each of corn if given to them, but half that quantity will be sufficient to start with,
and as hard weather comes on the quantity should

## LIVE STOCK.

Notice to Live-Stock Breeders. We wish to adviee our live-atock advertisers and live-stock broeders gener live-stock that werticers and L. E. Franklin as our live-stock adyertioing solicitior to succeed Dr. H. Vanzant, and that Mr. Franklin
started on his new work with us October 1. We beorpeak for Mr. Franklin in cordial reception and ask your favorable considideration of ficreasing "The Furmer's Adyough, taking largor space in results.

Green Feed for All Seasons.
Live-stock farmers frequently fall down in the preparations they make to carry their animals through
periods of drouth in the late summer and fall Throughout Eastern Canada this year, the fall
 show the cer has been large, heavy inroads will be the hay crop has been large, heavy inroads will be
made into it to maintain the live stock, thus, depleting the stores that should be held over for winter when it will be needed, particularly in Ontario, on
account of the small crop of spring grains and silage account of the small crop of spring grains and silage
corn. We cannot tell six months ahead what condi-

THE FARMER'S ADVOCATE.
Founded 186

Farmers in this country do not appreciate the value of
good pastures and plenty of roots. It is a lesson good pastures and plenty of roots. It is a lesson Country breeders, who have supplied the world with a great majority of the breeding stock used in the im-
provement of our herds. The fertile mead provement of our herds. The fertile meadows and
the large acreage of roots are two factors that hel the large acreage of roots are two factors that help.
to produce the big, sappy animals, and these are to produce the big, sappy animals, and these are
strong features in the husbandry of Great Britain. Canadians do not pay sufficient attention to their pastures. Throughout the Maritime Provinces this year the
writer noticed considerable area devoted to white
turnips. In some instances these were sown to supply the military camps with an early vegetable, while
in other cases they were planted for the stock. After the purple-top turnips became fit for use the market demand for the white kinds declined, and what mained in the ground were fed. In some instance we observed the cattle coming to the stable at night to enjoy a repast of these white turnips and they seemed to enjoy them. They supplied that succulency and they provided some feed constituents as well A small field of this crop would be profitable almos any year, for they grow rapidly and are not exceeding-
ly difficult to keep clean. When a small variety well on to the last of December and help to conseep the silage and winter roots. We would not recome
mend the extensive culture of white turn mende a small patch would be profitable but, we thing of this nature to feed either in the stable some. field will certainly show results. Generally speatine our live stock does not receive a mple succulent fleed during the early fall, and this is particularly true of
this season. Some form of green feed duced in larger quantities if we are to make the produced in lirger quantities if we are to make the most
of our live stock.

## The Work of the Co-operative Wool-Marketing System.

While co-operation has not come up to expectations in some fields it has certainly been a good servant to the sheepmen of Canada. It has hot been very long since the co-operative method of grading and marketing wool was first tried, but the results were so pleasing that the system has rapidly gained in favor and in 1916 over 400 tons of wool were assembled graded, properly packed, and marketed to the best advantage. At seven pounds to the fleece, this would represent the clip from approximately 115,000 sheep in the Propinçes of Alberta, Saskatchewan, Manitoba Qutbec and Nova Scotia. What might have been done in a simali way in other provinces we have not taken into consideration. This movement, so far as it is explained in this article, and it covers the field very fully, is one of the biggest things that has occurred in recent years to "encourage the raising of sheep and to assist the fanniers in obtaining fair value for their product. To many" sheepmen "wool is wool." They care not whether it is long or short, fine or coarse, full of sand or free from dirt, tied with sisal cord and packed in jute sacks that will impair its dyeing properties, or put up in a way that its value will not be depreciated. "They care not whether it is black, grey or white; "wool is wool" and should be worth the same price anywhere and everywhere. The grading system, along with the instruction and
information that accompany it, has done much to information that accompany it, has done much to
dispel this erroneous idea and to demonstrate the differences in grades and qualities that result from the difference in breeds, and the way the wool is cared for. Before the wool is converted into the many In this process all the alien matter is disposed of and the pure wool remains. When a quantity of wool is purchased it is valued not by the pounds in the erude likely be when it is freed from all foreign substances. Range sheep frequently give a clip that contains a heavy percentage of soil particles as well as parts
of weeds or grasses. The farm wool is usually cleaner of weeds or grasses. The farm wool is usually cleaner considerable difference in price.
Some members of the associations might not have
been thoroughly pleased with the price been thoroughly pleased with the prices they received, perhaps they expected too much. However,
the grade into which their contribution was classified will probably throw some light on the latter and reveal a way by which the product can be improved and thus command more per pound. Another phase of the subject arises here. Without the existence of the
association or co-operative enterprise how much association or co-operative enterprise how much consider this feature of the work, and therefore do not appreciate the good done the sheep industry
by this method of getting together in the wool selling by this
business.

## Selling Alberta Wool.

## by e. l. richardson.

The Alberta -Sheep Breeders' Association have
w held three co-operative wool sales. A comparison now held three co-operative wool sales. A comparison
of the quality of wool sold is as follows:

| Years |  |  | $\begin{aligned} & \hline \dot{\text { un }} \\ & \text { od } \\ & \text { Ű } \end{aligned}$ | Value. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1914 \\ & 1915 \\ & 1916 \end{aligned}$ | 21 88 335 | 2,500 14,500 42,489 | $3 / 4$ 5 13 | $\begin{array}{r} \$ 3,192.19 \\ 26,837.61 \\ 83,867.00 \end{array}$ | $\begin{array}{r} \text { 19c. } \\ \text { 27.77c. } \\ 29.9 \mathrm{c} . \end{array}$ |

This is certainly a most satisfactory growth.
The prices received this year for wool of the various ades were as follows:
Fine combing, $281 / 2$ cents.
clothing, $181 / 2$ cents.
medium combing, firsts, $331 / 2$ cents.
medium combing, firsts, $331 / 2$ cents.
medium clothing, firsts, $271 / 2$ cents.
medium combing, seconds, 29 cents.
medium combing, seconds, 29 cents.
medium clothing, seconds, $271 / 2$ cents.
"t medium clothing, seconds, 27
clothing, firsts, $281 / 2$ cents.
$\begin{array}{lll}\text { combings, seconds, } \\ \text { clothing, } & 31 / \text { cents. } \\ \text { seconds, } & 281 / 2 & \text { cents }\end{array}$
Low medium combing, $301 / 2$ cents.
Low medium clothing, $301 / 2$ cents.
Coarse, 30 cents.
ustre, 30 cents.
Gejects, and black, 26 cents.
Locks and pieces, 22 cents,
Tags, 12 cents.
The inauguration and success of these sales were made possible by the assistance given by the Provincial Government towards the organization and maintenance of the Alberta Sheep Breeders' Association and through
the initiative of the Dorition aive Stock Commissioner's Branch of the Domiliol Pepartment of Agriculer's Branch of the Dom. (Ore Pepartment of Agricul Association withouted. Scially grade the wool The manner in whicl $\quad$ lces have been rendered by the Dominion Tw. © Franch has established confidence between ed the official grading by the Dominion Government officials.

The Association issues a tabulated statement showing the quantity of each grade, and prices received by each individual, so that each member is able, to see how his wool compares with his neigh-
bor's. A number of the contributors on looking the statement are anxious to obtain information as to how they can improve the quality of their wool, so they can increase their revenue. majority of the sheepmen had of these sales, the one coming to their farms to buy their wool and practically compelled to accept whatever the individual would offer. These buyers did not feel it necessary to offer within two to ten cents a pound of what the wool was worth. We had instances last year of some
sheepmen who sold through our Association receiving sheepmen who sold through our Association receiving
as high as thirty-two cents per pound for their wool and their neighbor who had wool of equal quality and their neighbor who had wool of equal quality
selling privately for eighteen cents per pound, as
he did not hear of the co-operative methods of selling of dollars for its members through the selling of and has also assisted in establishing wool values so that the individual buyers who still travel from
farm to farm are compelled to offer those who sell through the Association a much better who do not they would have if the Association sales were not held. The Association does not charge any commision against each member according to the number of pounds he sends in. The cost of handling the wool the wages of the staff while the wool was being sorted, weighed and loaded on cars, insurance, printing, advertising and general office expenses, cost of bags and twine, in excess of amoun ${ }^{\text {a }}$ we received for same,
allowance for shrink, and weight of twine. allowance for shrink, and weight of twine.
If the individual did not sell through
tion he would be debited with the same asooiso for shrink, as well as for cost of bags and twine which would amount: to from one-quarter to one third of a cent a pound, so that the actual cost to graded and sold co-operatively, is between two-thirds and three-quarters of a cent a pound.
Co-operative Wool Marketing in Saskatchewan.

## by w. w. thomson.

Saskatchewan is generally recognized as the great grain-growing province of the Dominion; her fertile such abundance that in the Eastern mind, grain growing is almost the only agricultural activity associated with the West. It will, therefore, come as news to able attention, and that there are now upwards of 1,500 flocks in the Province, varying in size from the small farm flock to the ranch of ten' thousand head. Statistics compiled by the Provincial Department of Agriculture show that there are 192,000 sheep in
the Province. Until the la
from these flocks presented the marketing of wool sheepmen are scattered in all parts of the Province, the only markets are in Eastern Canada or in the United States; few localities produce sufficient wool to make a car load, and as result the wool was shipped
long distances in I. c. I. lots, paying high freight rates long distances in 1. c. I. lots, paying high freight rates,
The flock owners came from practically all parts of the civilized world and many had little experience in sheep raising. The breeding of the flocks was as varied as the districts from which the breeders came all kinds of wool were sold together, grading was un-
known and so the poorest wool frequently 'sold as known and so the poorest wool frequently 'sold as
well as the best, naturally buyers were not inclined to pay high prices. In the fall of 1913 inquiries instituted by the then newly created Co-operative Organization Branch of the Provincial Department of Agriculture revealed the fact that, that year's clip had been sold for from 8 to 13 cents per pound
10 cents being about the average price these conditions the Department decice. that it was necessary to introduce a new system of marketing which would insure economic handling and under which each lot would be sold on its merits, so that the best wool would bring the best price and all


A list of the sheepmen in the Province was at once compiled, and eancing that the Co-operative Organization Branch was prepared to act without charge as a marketing agency for sheepmen who would prepare their wool in accordance with directions drand that the practice of the Branch. It hing binder twine ather sisal cord in tying fleeces, using shipping in coarse, jute sacks was one of the chief causes of the low price received. The sisal fibres became mixed with the wool, but would not take the dye as woo be manufactured from wool handled in that way. To overcome this difficulty, the Branch underway. to supply paper fleece twine, and closely woven jute sacks at cost to those who would make use of its marketing facilities. The following is a copy of
the packing and shipping instructions sent to persons the packing and shippithed that they would market their clip who intimated Branch.

Packing and Shipping Instructions.
Roll and tie the fleeces carefully.
(a) Removing all manure or paint-clotted locks.
(b) Rolling the fleece with the fresh side out. twine.
2. Pack the fleeces in the sacks supplied, being
careful (a) Include only dry wool in your consignment. and bucks respectively, in separate sacks as far as possible. When it is necessary to pack two or three
kinds of fleeces in one sack place sheets of strong paper between the different kinds.
pack the wool from each breed by itself, or when necespack the wool from each breed by itself, or when neces-
sary pack in the one sack and separate with paper as above described.
as (d) If you wish to forward the tags (manure or paint-clotted locks clipped from the fleeces) or black
or brown fleeces, always place these in sacks by themor brown fleeces, always place these in sacks by them-
selves. (e) Pack the wool tightly into the sacks. A 40-
inch by 90 -inch sack should hold at least thirty fleeces. 3. Prepare for market by,
(a) Filling out two shipping labels for each sack, being careful to give name and address of shipper, kind and net weight of fleeces.
(b) Placing one inside the sack and sewing the sack up, using strong, hard twine. (c) Sewing the second shipping lab
to the side, not to the end of the sack.
4. Storing.
(a) Store the sacks where they will be kept dry until ready to ship.
5. Shipping. (a). Forward the wool by freight, via the most direct route, to the Co-operative Organization Branch,
Department of Agriculture, Regina, making the shipDepartment of Agriculture, Regina, making the ship-
ment between June 19 and July 1. No shipment mhould be forwarded later than July (b) Either prepay the freight to Regina, or for ward the shipment freight, charges collect, and the
Department will pay the freight and deduct the amount from your cheque when making final settlement. (c) As soon as the shipment is made, forward
the bill of lading at once by mail to the Co-operative the bill of lading at on
Organization Branch.
In 1914 one hundred and eighty sheep owners prepared and forwarded their wool in accordance
with the above directions. The entire consigniment, amounting to 69,404 pounds was assembled in Regina, and sold at a flat price of $173 / 4$ cents per pound;
This, after paying local freight from the producers' This, after paying local freight from the producers'
stations to Regina and the cost of twine, sacks, storage, stations to Regina and the cost of twine, sacks, storage, of $161 / 2$ cents per pound. In 1915 the work was again carried on in practically the same way, and
that year 306 sheepmen marketed a total of 148,339 pounds of wool through the Branch, obtaining In 1916 an arrangement was made with the Dominion Live Stock Branch whereby they undertook to provide expert graders to classify the wool, and the same instructions were issued to producers as in former years. This year 487 flock owners marketed
their wool through the Branch, and the wool was sold by tender. The following is a summary show-
ing the total weight of each grade handled and the price realized:

| Grade | Pounds |
| :---: | :---: |
| Fine combing | 6,623 |
| Fine clothing | 10,896 |
| Fine medium combing, firsts | 11,883 |
| Fine medium clothing, firsts. | 3,631 |
| Fine medium combing, seconds. | 21,093 |
| Fine medium clothing, seconds.. | 8,080 |
| Medium combing, firsts. | 21,288 |
| Medium clothing, firsts. | 1,767 |
| Medium combing, seconds. | 33,160 |
| Medium clothing,seconds | 4,088 |
| Low medium combing | 15,415 |
| Coarse | 3,574 |
| Lustre | 10,344 |
| Rejects | 14,160 |
| Gray and blacks | 1,519 |
| Locks and pieces. | 914 |
| Tags. | 2,758 |
| Range | 5,363 |
| Mohair | 145 |

## Price per pound 33 cents

Under the grading system, the cost of handling the wool was considerably higher, being practically one cent per pound. but this was to be expected
as it was necessary to unpack all of the wool, grade each fleece and then repack it. It is, however, quite evident that the price obtained by grading more than have not been satisfied with the grading of their wool, the percentage of rejects was high, largely because
many of the fleeces many of the fleeces contained considerable quantities placed in the grades to which they would otherwise have belonged. Evidently many sheepmen neglected to sweep up their shearing floors before commencing operations, buty it is safe to say that this w.ll not occur again and that next year there will be a much
smaller proportion of rejects. From an educational standpoint the number of grades is rather confusing and it would appear desirable that some more simple system should be devised, as it is practically impossible to explain to each producer the reason for placing his general it can, however be stated that belongs. M and those in charge of the marketing work are satis fied that the grading system is certainly the most equitable manner of handling the business, and that this year's results are highly satsifactory.

## Marketing Manitoba's Wool Crop

A new era in the production of wool in Manitoba has just begun. Co-incident with increased production comes more efficient methods of marketing.
Manitoba farmers have long since recognized the
difference in shrinkage between the fine and coarse Length and strength of staple, quality of fibre cleanliness, color.
The length and strength of staple largely determines the grade, the longer staples going into the combings,
and the shorter into the clothing with the coarser samples grading coarse combing. chiefly straw Rejects cover the dirty samples, chiefly straw
and vegetable matter, whereas, seedy and dead repreand vegetable matter, whereas, seedy and dead repre-
sent a still inferior grade. Tags represent the lowest sent
Quality in fibre or staple is very important, since it determines largely how the wool will stand combing. A weak spot in the fibre often results from the
health of the sheep at the time when that affected portion of the wool was growing.
White wools are very much more in demand than gray or black. The white wool is useful for gray white black cannot be used for this purpose. As
gray and wool ages it is more difficult to scour, and seldom comes through the process as light in color. White
color in the fleece does not altogether determine the color of the scoured wool. Wool should always be rolled flesh side out, since this exposes the best color, and our first impression is received through what is seen by the eye.
Damp wool soon turn
Damp wool soon turns yellow when packed, and if allowed to remain in this condition for too long a periad the fibre becomes injured. of Agriculture found it necessary to expose to the sun wool received for it necessary to expose to
sale, in order to preserve its quality. Of course,
there was a loss in


The Wool Graders and Packers at Work
principles of co-operation as the most sound, economic basis for successful trading in farm produce, and tofect, are generally conceded to be an improvement on any other known method. It is not surprising to find the flockmasters adopting the co-operative grading system, as a solution for their wool-marketing problem. The old method of selling the wool crop locally on a flat basis was neither remunerative nor Supposing the sheep owner did possess a fairly accurate knowledge of the grade and market value of the wool he had to offer for sale, this would be of little practical assistance in demanding full market price at home, without a more or less open market for his wool.
Assuming that one could cite isolated cases when the producer had received prices equal to those received through the co-operative wool marketing plan, it requires no stretch of the imagination to assume that the present prevailing prices would not be available in the absence of the co-operative scheme

Factors Determining Values.
Western wools are disposed of in the unwashed condition. The buyer in purchasing wool in this condition pays for wool and dirt; the yard-stick by which the value of this wool is determined is its
shrinkage. Wher the buyer estimates the value per pound or medium combing, medium clothing, lustre on me medium combing, etc., he immediately estimates the shrinkage, and will appraise the value of the wool in question by comparison with scoured wool of a similar grade in the Eistern market. Grant assuming the shrinkage to be 60 per cent., this would assuming the clean or scoured value of 80 cents per
represent a
lb. Under normal conditions there is 20 per cent.
ongest, strongest in staple, and of the shoulder is whereas, the coarsest part of the fleece is at the Sorting is almost entirely carried out y the manufacturers. They require uniformity of ibre and freedom from any tender or weak spots in the staple or fibre.
Owing to war conditions there is an abnormal demand for the coarser or combing wools, the clothing wools being somewhat less in demand, and us
chiefly for making finer materials and broadcloth.

Methods Followed.
All sheep owners in the Province of Manitoba were supplied early in April with a circular, setting the wool-marketing scheme. It was required that all wool be shmpped, to the order of the Department of Agriculture, during the month of June. Owing to the wet weather in June, however, a great deal of the wool was not shipped in until the middle of
July. All fleeces had to be rolled and tied with paper July. All fleeces had to be rolled and tied with paper
twine and properly packed in wool sacks. Paper twine and wool sacks were supplied by the Departtwine and wool sacks were suppled bith binder twine were kept separate and graded among the rejects, since the binder twin
Shipping tags were supplied in sufficient numbers to enable the shipper to autach one on the inside as well as on the outside of the bag, and thereby avoid any danger of wool being received unid
Freight was prepaid in the majority of cases. an expert to perform the grading, a record of which was kept on forms supplied for the purpose, and known as "Domestic Wool Grading Sheets." Upon
receint of wool at warehouse, it was weighed in the
presence of both the official grader and a representa
tive of the Provincial Department of Agriculture The shipper was then notified and an advance pay ment made of 20 cents per pound, the balance being
paid after wool was sold and full settlement received. The wool was immediately graded and packed in wool emblem were stenciled by the grader

The wool was open to inspection at all times, and
ane all over the American Continent notified large buyers all over the American Continent notified
of the amount of -wool offered for sale, average and date when tenders would be received. Bids were bidder. The sale was made on the basis of the grade classified by the Dominion representative, who sicted on behalf of both seller and buyer in this re spect. Wool was sold for cash, f.o.b. Winnipeg,
end a deposit of 5 per cent. of the purchase price was end a deposit of 5 per cent. of the purchase price wa
required of the purchaser at time of sale, and balance when shipment was made.
The expenses include printing, advertising, post age, draying, labor, insurance, loading and freight Atter ,the sale was completed an estimate of these
expenditures was arrived at and deducted from the the wool.

## Amount Sold.

This year we received in the neighborhood of 160 ,
000 lbs. of wool, $154,000 \mathrm{lbs}$. of that amount being 000 libs. of wool, $154,000 \mathrm{lbs}$. of that amount being officially graded. The ungraded wool was sold locally found this year that a deduction of 1 cent per 1 b . was barely sufficient to cover all expenses incurred. The following statement represents the number of
pounds of the different grades of wool sold and prices pounds of the different grades of wool sold and price
received in each case:

Fine clothing. Fine medium combing
Fine medium clothing Medium clothing Low mediumicombing Coarse
Gray and blac
Rejections and
Locks and pieces. Tacks...
. 2,85
$.6,72$

found in this quantity of wool. The percentage of the total will be found after each grade: medium clothing, 1.1; fine medium combing, .9 ; medium comb8.1; black and gray, 1.1; rejections,

The woot clip alone coming through these nine as $\$ 71,092.70$. Four cents per fleece was found sufficient to cover expenses, and the members received from

A Start in Nova Scotia
In the county of Antigonish, N. S., this year, the Representative of the local Department of Agricul-
ture had about 16,500 pounds of wool assembled and graded. In Guysborough County about 2,000 pounds were handled in the same way, and the entire quantity was sold for $411 / 8$ cents per pound, including
rejects. The range in price was between 38 and 44 rejects. The range in price was between 38 and 44
cents. This is only a start in that Province, but the cents. This is only a start in that Province, but the
price received will surely advertise the system and price received will
insure its success.

## THE FARM.

## Consider the Hens

## by reter mcarthur.

Somewhere in his ponderous and reverberating
volumes Gibbon remarks that it is not study a large community in order to observe in operation all the principles of government. I do not remember exactly where to locate the sage and sonorous sentences
in which the great historian and philosopher unburdened in which the great historian and philosopher unburdened thimself of this weighty thought but I have given you Also I am willing to go him one better and say that you can discover a lot of serviceable principles of government without leaving the farm, or even the barnyard. While gathering the eggs this afternoon I hit on a are pushing up the cost of living the mergers, that that question once and forever. But perhaps you think there are no trusts and mergers with monopolies of all the necessaries of life, and that the high cost
of living is entirely due to the war and natural causes. of living is entirely due to the war and natural causes.
If I believed the earnest denials of business men and
financiers I would also trusts and mergers but a short time ago I happened on a piece of evidence that convinced me of their existence
more thoroughly than if the government had conducted more thoroughly than if the government had conducted
a dozen investigations. I met an old friend from New York who happens to be the manager of a wholesale firm that sells supplies of various kinds to Canadian manufacturers. When L asked him if it was his intention to stay long in Canada he replied. "O no, it is not necessary. Over here in Canada you have a nea deal with and I do not have to hustle all over the minion to see competing companies. Each merger has a purchasing agent who buys for everyone in his
line and he is the only man I need to see, so it doesn't line and he is the only man I need to see, so it doesn't
take me long to do my business." Do you need take me long to do my business." Do you need are supposed to be competing have the same purchasing agent wouldn't it be absurd to think that they have no agreement about selling prices? After getting that bit of information I am not a bit convinced if business
men I interview wax indignant when accused men I interview wax indignant when accused of being questions by saying "Tut, Tut!" and "Pish Tush "
and likewise "How now!" The New Yorker planation revealed more to me in a morker's excould find out by investigating for months.
to know why convinced that there are trusts, I want hens-that is, take the eggs from their nests whenever
we need them. We could leave them a we need them. We could leave them a nice nest-egg take their profits for the ppublic "good. Come to think
of it, I should not use the term "profits" when speaking of it, I should not use the term "profits" when speaking
of a merger or trust that has secured a monopoly accumulations can only be described as "stealings"
because they are taken from because they are taken from people who are as helpless
before them as the man who is held up and robbed of his purse by a highwayman. Past experience in both
the United States and Canada has shown that it is impossible to frame a law that will prevent combinations
of this kind. Big Business has learned that combination pays better than competition with the result that we
have to pay the highest possible price for the poorest possible service. But if the stolen profits of such
combinations were properly taxed so that stealing would no longer pay they would quickly get back to
a competitive basis. All that would be needed would
be to extend the business tax that is at present levied by the government. The money that these corporations
are now piling up has been stolen from the people and
should be recovered for the use of the people the expenses of the war threaten to become an in-
tolerable burden. The trusts dare not evade the law tolerable burden. The trusts dare not evade the law
by forcing prices higher, for that would make them
prohibitive. Indeed there is prohibitive. Indeed there is at present a - tendency
to reduce prices in some lines because it has been found
that the people were stopeing buse that the people were stopping buying and the people
must continue to buy if the trusts are to get rich
the prices we have to pay for some necessics amounts combinations were given cash. It is time that these Of course they would howl, from their slick legal departments to the last innocent investor, but it looks of the war are met and it showld not the expenses and laboring men. They have enough be the farmers Another favorite argument against a taxation schow. of this kind is that it would discourage capital. "Tut, tut" and "Pish Tush" and likewise "How now!" Not at all! They keep right on laying their eggs? times in the past I have wrathfully comparious farmers to the hens because whenever they little prosperity they begin to cackle over their nests and then some schemer comes along and robs them; They keep right on producing. They By no means! starve. And it is just the same with capital. It it or be used in productive work or it will soon be consumed The trouble is that we have developed a foolish idea refuse to work. Before eno war prof the or it will of capital in Europe that was content was an ocean per cent. while we allowed our scheming capitalists pile up profits that in some cases reached one hundred and twenty-five per cent. This is not "loose talk,"
for such a case came out in the courts and is lor such a case came out in the courts and is a matter
of public record. I think we could tax the proits of public record. I think we could tax the profits and relieve us from increasing tax burdens, without discouraging capital very much. And if the trusts didn't like the tax they could reduce the price of their products to the consumers and put business back on many fortunes being piled up in Canada in this tim of public calamity and they are not all based on munition contracts either. Whenever I visit the cities nowaday practising crowing plump young broiler millionaire practising crowing at the expensive hotels and pan and they should be fried to a turn. Then if your want a flock of good "bred-to-lay" Barred Rocks, to gather eggs from, what is the matter with the Banker's Association? of dealing with them when the next Budget methods consideration.

The Lure of the Auction Sale.
This is the season when the auctioneer's hammer resounds throughout the land the auctioneer's hammer The farmer who was kept so busy during the summer that he couldn't find time for a day off, will manage,
somehow, to be present at neighbor Brown's sale. up," he tells his wife bargain or two worth piecking knows that his cronies will be there and that an auction sale takes no second place to the corner grocery as a clearing house for matters of local interest.
Not many years ago the auction of Brown's chattels
would have created an atmosphere of a funeral. He may have been not unlike that farm game and gathered together a successful at the bank balance to enahle himself and his wife to enjoy
a well-earned rest in some near-by town. But the tions endeared by home, the severing of associawhole community. Thus the austion a sadness over the made necessary was often, with many who attended; a matter of gloom and regrets rather than jollification
and bargains. However, I believe the modern auction has its proper place in the economy of things agricultural.
Having been both a buver and a seller some knowledge of the institution at both ends. Its chief claim for existence may be written down to the convenience afforded alh parties concerned. Suppose
that Jones wishes to build a new barn. His capital is tied up in stock of which he has a surplus. He Sets aside a number of animals and advertizes them
for sale on a certain date. Perhaps Smith, who lives across the road is understocked and wants these cattle. At the same time it is pretty safe to assume that there
are, at least, several Smiths with similar wants living within the Jones territory. This brings in the element of competition-a very desirable ingredient of a busines transaction whether in merchandise or farm stock.
Most of us have had experience in trying to sell stocl privately. Occasionally erience in trying to sell stock more often, perhaps, it is disappointing. If one is room and abundance of feed, then he can strike attitude of independence. "I've told you my price take her or leave her as you like, "we say, and such position to stick it out. Such a situation was delight-
fully sketched by the genial Peter McArthur several years ago in "The Farmer's Advocate," under the title: (I quote from memory) "The Sayings and
Doings of Donald Ban." One wonders what Donald would do or say if he were forced to close a deal with But, of course, the auction sale is not a one-sided alfarr. It often happens that the buyer is able to
make a more satisfactory pitrchase at a sale ring: not
that he is likely to where near it -he rarely where near it -he rarely does that, but he knows the
Donald Ban type and has occasionally been held
up by the shrewd old

## is to get a "fa lesser proport

 lesser proport to match girres the buyegill be no "bi
wis will be no " the United S
way, appear t
to their indivi to their indiv
public-spirited was not the stuff), but
among his among his like the follo variations wo
"Now then, thing-a per
ning-year-old,
"Her dam on the unper
former. This voce to Mr.

## Make Go


is to get a "fall" out of a professional dealer, and in a lesser match wits with him. The advertisement that carries the insertion, "to be sold without reserve," gives the buyer confidence and insures him that there makes the most of. One doughty old colonel from the uay, appear to be colonels, majors or captains according way, appear to their individual preference used to enlarge on the public-spiritedness of the owner whose object in selling was not the piling up of filthy lucre (he scorned the stuif), among his neighbors the high-quality stock that he among his neight a life-time to build up.
When an animal was driven into the ring, something like the following monologue w
variations would be forthcoming.
Nhing-a perfect type of the dairy a sweet young thing-a perfect type of the dairy cow." She's a
nine-year-old, announced the surprised owner mildly. nine-year-old, announced the surprised owner mildy.
"Her dam is nine years old, Mr. As tells me," went on the unperturbed colonel," and is still a grand per-
former. This beauty is her fifth calf," then sotto voce to she gets into a sale-ring
"You have looked her over gentlemen. Your
intelligence, your knowledge of good stock, even instinct intelligence, your knowledge of good stock, even instinct
tells you that she is a better mint for manufacturing 'cart-wheels"' than any Cobalt proposition you ever heard of. What am 1 offered then for this milk permbulator, this cream-gathering concern
"Thirty dollars," said a bystander cautiously. " Thirty dollars!" roared the colonel affecting a fine show of astonishment, "why not say thirty centsyou look it. A bid like,"
Finally, by means of considerable urging, romancing
and hot air the much flattered animal was knocked and hot air the much flattered animal wa
down for $\$ 62.25$ and Mr. A. looked pleased.
One feature of the public auction that I feel it a
duty to question is that of settling for stock or articles bought with promissory notes, usually not due until the following fall. Doubtless it does have a tendency fortunate enough to receive it when the due date comes round. Do not infer from this that I question the honesty of anyone who may wish to buy stock by his game, but I believe that such are exceptions to the
sary payment is obscured by the length of time given of sale, but hopes that he will be when cash at the time His intentions are good but they frequently 'serve to pave the way to future insolvency
It has occurred to me when attending sales that one might often save considerable in bu ying different kinds implement manufacturers are getting rich too quickly I have seen the very best farm tools sold at fifty per cent. off the original price-good as new too. Of course you require to be some judge of what you are buying or get someone who is to help you out. The point
is that you are required to invest only about one-half that new would cost, and practically all you lose is little red paint anyway. For instance, I have seen a binder sell for $\$ 60$, that the year before cost the owne $\$ 135$ and other machinery and tools proportionately low, and all on twelve months' credit or six per cen started at farming this is a snap. It lets him in easy and affords a means of retreat in event of cold feet. Later, if he decides that he is not gaited for farming that is, if he gets the right kind of an auctioneer.

## Canada’s Young Farmers and Future Leaders

Make Good use of Any Spare Time this Winter.
The majority of men are followers and grumble The majority of men are followers and grumble
because of their position, always wondering why
they are not leaders like so and so who attended cheyool the same time as they did. Very often the fault is in themselves, Maybe they did not make good use of their time at school, or, as they grew to man-
hood were unwilling to start at the bottom of the ladder, and step by step ascend towards the top. they should they quit their job and started at some thing else. Thus, on through life they drifted from a lot of perseverance and stick-to-itiveness to succeed in any one line of business. Farming is no exception. As there are leaders and followers in every commercial
line so there are in farming communities. Some one line so there are in farming communities. Some one
or two persons are bigger and broader minded than the details of the work he is interested in that makes the details
number of boys about the same age attending school between twenty and twenty-five years ago. One boy in particular was very much interested in his
studies, and while he took a keen interest in all kinds of sport he would not allow play to monopolize all his spare time. Outside of his regular studies he read Some of the boys thought him foolish to read and get through school. Others called him a "sissy" get through school. Others called him a "sissy"
and other unpleasant names. However, time went
on, and to-day this on, and to-day this boy of yesterday is a man and is
vice-president of a company that pays him a salary vice-president of a company that pays him a salary
around fifteen thousand dollars a year. He commenced when a boy to gain a complete knowledge believed to be the best posted man on it that there
is in the country, thence his value to the company. is in the country, thence his value to the company.
What of his schoolmates? Some are in business for them ves and making a success of it. Others are
on the pay-roll in shops, factories and stores, but none have risen so high in the business world as the spare time when possibly the inclination was to
spend it in idleness. This is one illustration of how success comes to those who prepare themselves for it, town or city boys either. The farm affords splendid opportunities for the boy who heeds the call to wrest
from mother earth the treasures she has stored up. from mother earth the treasures she has stored up
There are many farm problems yet unsolved, and ther is as much honor in solving them as in controlling
a large manufacturing business. True, the cash returns or salary may not be so large. However,
every, one can recall to mind the names of farmers who are making a success of their business without
being slaves to it. Their crops are generally above the average, their stock looks better and is more prosperity about the place, and the farmer and his
family have time to take a day or two "off" occasionally. Many wonder why one man has greater success
in farming than others. The reason very often is
that te ready to grasp a sew ideas that were an improvement abreast of the times. Too often we get into a rut
and haven't gumption enough to pull ourselves together and get out of it. It very often happens that
the older we get the deeper we sink in the rut of out of-date methods. Keeping up-to-date is as essential
to the financial success of the farmer as it is of the All there is to know about farming has not yet
been learned. ing, crop growing, and farm management arising
to observe closely the changes that are taking place reward. During the winter, work is not so rushing as at other times of the year, and there are usually many spare moments. The success of every man when a boy. This is not queant to give the impression every minute that is no play or recreation, and that be spent in study or reading. Recreation is necessary, but it is also possible to devote a definite time each day to the study of some special subject, without in anyway interfering with the regular work and play.
While a study should be made of the work one is engaged in, it is not wise to give all the time to gaining a knowledge along one line. Master one subject, but endeavor to gain a working knowledge of others in order to broaden the mind and give a larger conboy and young man has as good, if not better, opportunity to do things than has his city cousin. Remember that the man in demand is the one who has a working knowledge of things in general and is capable of doing one thing, at least, better than any ne else. Waiting untin a certain line is allowing a portion of life to be wasted. While it is possible to succeed, the man will never be what he might have been had he made the best use of spare time in boyhood days. The boys who laugh at their chum for life that they had not made better use of the opportunities afforded them. This is an age of keen competition in every line, farming not excepted, and he who would a leader
when he would rather play.

## Money Makes Money.

Money makes money, but the difficult problem for young men is to start a bank account. There is
usually a ready demand on what little money comes usually a ready demand on what little money comes
their way. Even if they have a few dollars it is customary to carry it with them, rather than deposit it in a savings bank, or invest it in stock. When money is handy, there is strong temptation to spend it; probably what is purchased is needed, but the question is, could in the pocket the temptation to buy would have been lessened. Self-restraint is required in this regard, as the habit of spending gradually grows: It is easy to convince oneself that a certain thing is really required. Tastes in excess of the income are easily cultivated
and the habit once formed hangs like a millstone around and the habit once formed hangs like a millstone around is the time to practice economy, and if possible save a istle money. Very often the boy on the farm does not receive a stated sum per month or year, consequently
he has not the same opportunity of starting a bank ache has not the same opportunity of starting a bank acy
count as the boy who receives a wage. While a boy or young man may receive all the money he requires
for immediate personal use, it requires the responsibility of handling money to learn its real value. The boy who works hard for every cent he gets is more likely to
spend his money wisely than the one who has an allowspend his money wisely than the policy of not buying anything unless there are good porospects of paying day in middle life who have nothing laid by for a rainy day. These men receive good wages but have never
formed the habit of laying aside a portion of the weekly wage. No matter how small the amount a person receives, they should govern the expenditure so as to lay aside a certain amount. Supposing it were only fifty
conts per week it amounts to twenty-six dollars a year, cents per week, it amounts to twenty-six dollars a year,
or at three per cent. compound interest to $\$ 298$ at the or at three per cent. . compound the age of fifteen would plan to save the small sum of fifty cents each week,
he would have a very snug bank account when be he would have a very snug bank account when he was
twenty-five. A dollar a week saved would double this
amount, and there are plenty of young men who spend
more than that each week in luxuries or for things for which they can show no real value. If this money had been invested at six ॠer cent. the increase would have been considerably higher. A sum of money invested at six per cent. compound interest doubles itself in twelve years, and trebleg, itself in nineteen; this gives an idea
of how money makes moneys but, in order to get it working for you, it must be given a start. If a boy commences when young to save a little each week, he could be independent by the time he reaches middle life. The trouble is that there are so many ways to
spend it that it is difficult to make the start
send it that it is difficult to make the start.
The plan followed by some parents to teach the saving habit to their children is to have them deposit every Once the money is laid by the boys and girls think twice before making a* purchase, consequently many things of doubtful value to them are never bought. In one
family there were a number of boys and girls, and the amily there were a number of boys and girls, and the
parents started this practice when they were all quite young. The banker who handled the money stated that before these children were ten years old they kniew more about depositing and drawing money from the脜nk thin many men who had reached middle life: The boys and girls were allowed to draw the money ceived a business training. For instance, one boy decided that there was more money in raising geese than in keeping his money in the bank at three per cent. raised a flock. These birds were sold and the next venture was in the sheep business. The boy got the increase from the flock, but paid his father for all the feed which was consumed. The flock increased to such an extent that it was necessary to reduce it, and part
of the moneyo was invested in a heifer calf. While this young man is only thirty years old, he owns his arm, stock and implements, with money in the bank besides. This seems incredible, but it is a fact and shows the possibilitites of rising from saving money and investing it to good advantage. Once a few hundred dollars are lays turn out as expected, but the young man is better
 the chance to profit by the experience and avoid making mistakes, possibly with larger investments.
At a number of school fairs which have been held through the Province, the prizes have been paid by one theque had to be endorsed and presented money. The way At one school fair in particular fifteen proper young people each started a bank account. While he hirst deposit was small, many of them continued o add to it, and after three years they had a very nice,sum to their credit, which they would not have had to open a baen for the encouragement they received necessary to show the advantages of commencing to save when young to start many young people planning to save part of their allowance or weekly wage. Not only is saving a good habit to form, but it tends to give some idea of business transactions. One great trouble at the present time is the failure of boys and girls to
realize the value of money.

## Will They Come Back?

Editor "The Farmer's advocate": query: "What effect has the school fair on the child whery: doesn't get a prize?" Having been sent out by the Department under Mr. Bailey's direction, I feel in a safe position to answer the above query to a fair degree. At the outset I may say of the boys and
cirls of Frontenac, Leeds, Prince Edward and Peterborough Counties, that they displayed the keenest optimism, and some of them in forceful language.
With only one exception, they all intimated that they

## THE FARMER'S ADVOCATE:

Founded 1866
will be back stronger than ever. With regard to that one case a little explanation was all that was necessary
to cause a determination to come back. I find abundance of room for the judges to linger among exhibitor and explain in a careful way the reasons for the awards. I feel safe in saying there will be no sunburned potatoes or wormy apples at many fairs next year. "Are they Durham Co., Ont

Whl T. Baker.

## THE DAIRY.

## Cleanliness in the Dairy Stable.

Dairymen who supply certain towns and cities certain standard of thealth, and their stabteres in a sanitary condition. If this is necessary to protect the health of town and city folk, is it not equally necessary to take precautions to protect the milk supply of rural families? Herds from which the city milk supply is secured are inspected regularly by a veterinarian, and animals herd. Dairy stables must also be kept up to a certain tandard of cleanliness. In some places herds are tested for tuberculosis and any that react are considered to be unfit to furnish milk for human con-
sumption, although pasteurizing the milk is believed o destroy all tubercular germs
Milk is a medium through which disease epidemics have been started. In fact, it is more or less subject to infection not only from the cow but from all who have anything to do with milking, caring for milk and producer and retailer, disease traced directly to milk has been greatly reduced in centres of population. What about the rural districts? There, the quality of milk placed on the table is directly under the control of the producer. Seldom is it pasteurized, consequently attendants or stable, are not destroyed. There is a certain amount of sickness every year, especially with children, that can be traced directly to the milk supply. Milk is a food, the purity and cleanliness of whi
should be carefully guarded. should be carefully guarded.
than when they are stabled. There is alwats a certain amount of dust from dry feed and bedding, and particles of manure, etc., cling to the udder and flanks of the cow. Unless care is taken this dirt may drop into the possibly not enough to cause sickness or disease. If in doubt whether or not milk contains dirt, place a filter paper in a funnel and pour a pint of milk through it. The sediment on the paper is an indication of cows and stable.

Throughout the summer, cobwebs and dirt gather on walls and ceiling of the stable. Before the cows are housed for the winter the stable should be thoroughly whitewashed, to clean and whiten it. It is much
easier to produce clean milk in a clean stable than in easier to produce clean milk in a clean stable than in
a dirty one. The following recipe for whitewash is recommended: Take half a bushel of unslacked lime and slack with warm water, keeping it covered
uring the process to keep in the steam. Strain the liquid through a sieve or strainer, then add a peck of
salt, previously dissolved in warm water; three pounds of ground rice, boiled to a thin paste and stirred in water hot; one pound of glue dissolved in boiling water, and one pound of Spanish whiting. To the
mixture is added five gallons of hot water, then it should stand for a few days before using. The wash is best applied hot and either brushes or spray pump can be used to put it on. This brightens the stable and aid
in banishing dirt. If windows are small, endeavor to enlarge them, as light and sunshine are enemies of $=$ Some dairymen make a practice of clipping the
hair off the flanks and thighs of milking cows, and find that it aids in keeping them clean. Nature provides


Netherton King Theodore.
the animals with a fair coating of hair towards fall, and the longer the hair the more manure and dirt sticks o the cow's body and increases the danger of milk
becoming contaminated. The clippers should used before cows are stabled. Only a small portion of the body need be clipped. If possible take time oo groom the cows occasionally; it aids in keeping them healthier, consequently tends to increase the of stabling the cows would materially aid in producing clean milk during the winter
Wholesome milk can only be produced by healthy
ws, stabled and fed in a sanitary manner. Milk fom cows that are not in normal health should never be placed on the market in any form. It is endangering to keep the whole herd in the pink of condition than when they are running on grass, and the first six week in the stable is oftentimes the hardest. Changing
from green to dry feed, unless gradually done, cause the milk. Prices of dairy products are high, and while the milk. Prices of dairy products are high, and while returns from feed consumed, care must also maximum that the products will stand every test for quality and

How Milk May Be Contaminated The following extract appeared in the Septembe issue of a Winnipeg Health Bulletin: "On August this year; a dairyman by the name of A. Tarovestsk was prosecuted and convicted in the police court by his milk. Conviction was obtained and as it watering second offence a fine of his and costs was imposed. On August 11, Zarovestski and be suffering were found to fever. The authorities im mediately closed his diary and the cases were sent to the hospital. A list of his cusDepartment and thed by the of the Infectious Disease Division found twenty case of typhoid on his route. It time the above sample was taken, July 26, until he was
found suffering from typhoid found suffering from typhoid
fever covers a period of about sixteen days, which is within the incubation period of ty phoid fever, and it is possible that in this case the cause of adding of infected water to the milk. This exampleshows that for the protection of the public, distribution of wa-
tered milk should be put tered milk should be put
down with a rigorous hand." Inwn with a ri wantonly, with the infection following as a sequence, but there is always a possibility of a similar occurrence developing under ordinary conditions. No dairyman wil a strong one against carelessness in handling dairy products. There is no food consumed by humanity that is so easily contaminated as milk and milk products. Cleanliness and carefulness should always be practiced, as sick a neglect. disease, be it ever so slight, should not contagious handle milk in any way. The disease germs may be carried on the person and become dislodged and fal into the warm milk, where they find a suitable medium for their development. In this way epidemics have
been started causing loss of life Carrying water from been staminated causing loss of life. Carrying water from the milk. Dairymen cannot be too careful in the handling of this important food.

## Automobiles, Farm Machinery and Farm Motors.

## Some "Nevers" to Remember.

$\qquad$ If it is at all possible to utilize the clutch and bever under any circumstances use the brake without first pressing down the clutch. Brake action is hard on the tires, while the releasing of the clutch allows the casings to cease revolving without unusual frictionWhen you press down the brake without slipping the clutch, you are making the tightening of the
brake drums work against as well as the momentum of the car
Never allow your motor to run very long with the
spark retarded, as the tendency is to engine and use gasoline unnces is to overheat the starter on your car, it is folly not to kill the engine immediately upon your having no further use for power. ary to minimize the wear and tear on the
motor and reduce to a minimum the amount of gasoline expended.
Norward. Fry to reverse your car while it is one motion forward. Fighting one motion against another gives
but one answer-terrific strain unon the but one answer-terrific strain upon the machine.
Always see that your car is brought to a dead stop
before shifting before shifting gears to reverse.
Never attempt to start
your . motor by pushing down on a cerank or by "spinning'" it. It is far
safer to always pull safer to always pull up on the crank, and in the
majority of cases this action is sufficient if you apply a quick, active energy. Spinning a motor outen re-
sults in back fires that break wrists or arms. And
do do not fail to bear in mind that when cranking a
car the spark should be retarded. In machines car the spark should be retarded. In machines
made some seven or eight years ago, the spark lever made some seven or eight years ago, the spark lever
operated a metal disk which automatically prevented
cranking when cranking when there was too muth spark. People
have recently become educated, however, and this have recentiy become educated, however, and this
device is no longer necessary, althưgh we still hear
of accidents happening from back fires.

Never start your motor until you are sure that after the motor has commenced running until you are positive that the emergency brakes are not set. Many
drivers hav off after they had placed them in low gear. The fault was not in the motor but rather in the fact momentum against the endeavoring to initiate the fact that the emergency brakes had been pulled Never use hard or dirty water in your radiate if a soft, clean supply is available. Foreign matter clings very readily to any kind of metal, and incrusta-
tion is bound to result on the jacket. Never allow anyone to carry any kind of a naked
light anywhere near your car while it is being filled with gasoline, as a breath of air may blow the fumes recently an owner struck a match to gauge while fuel was being poured into the tank,
and the accident that followed was almost fatal. He thought that there was no danger, but a fust of wind communicated the gas fumes to the match and a great blaze went up instantaneously
Never throw in your clutch rapidly, as this creates
a great strain on the machinery Endeavor start the car that you will give the impression of a thief stealing away in the night. The appearance
of this system of driving is much more attractive as it eliminates all jolts and jars, and the effect on Never hesitate to use low speed in mud, gravel or any kind of heavy going. Your car may be able
to travel expenditure of energy to force it to do this upon all Never stop your car suddenly. Your chief object
in so far as the emergency brake is concerned, should be to know when not to set it rather than when to
set it.

Some Facts About Water Supply. President Cook, of the Mississippi Normal College
in a bulletin of the United States Bureau of Eduation makes the rather startling statement that the average farmer's wile hias to lift a ton of water a day. Here "The hisurs
ply to the point of application recuires source of supply to the point of application requires more manual water for the kitchen has to be lifted from the well carried to the kitchen, poured into the kettle, poured out of the kettle into the dish pan, and from the dish pan out of doors. This makes six times the water gallons, with the containing vessel, will weigh 20 galugns, with the containing vessel, will weigh 20
pounds. When this is handled six times, the total lifting is 120 pounds. The cooking of three meals on a meagre allowance of water will necessitate 10 buckets, which will make the amount for cooking
alone 1,200 pounds of lifting per day. When to this alone 1,200 pounds of lifting per day. When to this
is added the water necessary for bathing, scrubbing and the weekly wash, it will easily bring the lift per day to a ton, and the lifting of a ton of water a day
will take the elasticity out of a woman's step, the bloom out of her cheek, and the enioyment from her

A ton of water a day sounds a lot, but it's true nevertheless, you know of cases right near you Per-
haps you can't afford a water supply system but be very sure you cant.
There are three common systems available for the storage and supply of water: 1 , overhead gravity (air only). The first systern requires a large overhead tank. The water is pumped up into this tank and runs from here to any desired place by gravity. It
is unsightly and in a cold country like this undeis unsightly and in a cold country like this unde-
sirable. The second system is very simple, and requires a
to coniect these to the source of supply probably
the well. When the tank is set up it is full of air, the wel. Whno escape since all outlets are closed.
this air cannot forces the water. into the tank the air As the pump forces the water into the tank the air original space. This compression of air constant adds pressure to the water, so that when the faucet is opened through the outlet pipe. The pressure
be forced
 between 30 and 60 pounds. Under orrdinary circumstances 20 pounds the pressure is run higher. The following table gives the pressure in the tank the esponding to the height of the wate

| Tank |  | lbs. p |
| :---: | :---: | :---: |
| One-fourt | full ${ }^{\text {a }}$ water |  |
| o-fifth | ، " | $\cdots$ |
| One-half | " " |  |
|  | " " | 30 |
|  |  |  |
| Three-quarters |  |  |

A pressure of 30 pounds would force water to a
and it could be forced 140 feet. There should be a safety valve of some kind oto to to thallon
Horses dink 10 gallons per day. Cattle
 These figures may vary to a considerable extent but are ciose enough for estimating. It requires about $71 / 2$ gallons to flush a lavatory, 30 gallons for a bath tub, 300 gallons should can decide on the size of storage tank required, do not make tor shale of fire. The tank must 'be placed away from frost, and is usually The third or
The third or pneumatic water supply system is
the latest in development: It possesses several good features, such as obviating the storage of water requiring only one air storage outfit to supply both hard and soft water, and is adaptable to practically
all conditions. Were we require an air compressor and a storage tank for air. The tank can be placed anywhere in the barn without danger of being frozen, and air can be stored to a pressure of 100 pounds per square inch and throttled down to say 20 pounds
or ordinary use. In case of fire it can be up and water could be forced a great distance, as a large supply of air can be stored. The pneumatic well casing, and as many wells can be used as desired with one central storage tank; it is a very efficient system. We have not attempted to give instructions regarding instaling these systems, as emany reliable frms have these systems in the market information. We have tried to interest you in the question of water supply for the farm, and before you decide on any
system find out all you can about those available. Remember the cheapest may not be the best, Gasoline engines are usually used to run the pump or air compressor as the case may be

## Carburetor Queries

${ }^{1}$ thought perhaps the department in your paper could give me some help regarding a small gasoline coutor Iive made last winter. I am not able to design a carburetor that will work satisfactorily. The motor has a wo-inch cylinder, a two-and-a-hair-inch stroke one-and-a-half cubic inches. The intake valve is fitted for a quarter-inch pipe 1. Will you please publish the design of
carburetor suitable for this motor? If this is impossible please publish information regarding the construc
tion of a carburetor Is the combustion chamber the right size? to drive a fanning mill?
Ans.-1. It would not be advisable for you . M go to the expense of making special castings for
carburetor. Your best plan would be to purchase carburetor suitable for a $21 / 2$

## POULTRY

## These Leghorns Did Well

Many of the readers of your poultry column will probably the rememher having read, some time ago,

various letters various letters of mine giving some practical experiences
with bred-to-lay hens. For some time now I have been overseas with the British forces in France, but have at the same time, directed the laying of the founda
tion for my poultry farm in Enyland. In this I hav been very successful, and, as I have followed the methods 1 have advised repeatedly in your columns would like to place the results belore your rea

In Ieft Canada about a year ago. After arriving poultry farms, one very successtul, the other decidedly the reverse and now extinct. My own conclusions
were felly confirmed by this additioral experience, so that I did when starting on my own account last spring was as follows: 1 got hold of a pen of
bred-tolay White and 12 two-year-old hens. The dam of the cockerel had laid 250 eggs in her first year of laying, and 5
full sisters had won second place in the North American laying contest, after being sent over from England with a total of 1,105 eggs to their credit in twelve months. The hens I mated this cockerel with were not of the same quality but had proved good layers
during their first year, and I relied upon the extra during their frrst year, and Ireined upon the extra by the cockerel. I also procured a pen of White Orpington hens mated with a Leghorn cockerel for crossing purposes, and it was my intention to hatch every egg laid hy these two pens. in order to reduce
my first outlay for plant and stock. 1 was called up for the army six weeks afterwards which spoiled this, but the results my people have obtained are nevertheless very interesting.
The two-year-old Leghorn hens have from February 20 to September 17, that is, nearly 7 months, laid on the average 115 eggs apiere. They are now in
full moult and have practically stopped laying, but in consideration of their good performance this summer 1 am keeping them over the winter for breeding
purposes, and fit will be interesting to see the final purposes, and it war.
results for the interesting to see the inal of these nine pullets remain. The first commenced laying on August 17 at 4 months 19 days old. By
Sertember 17 I am getting an average of over five September 17 I am getting an average of over five
a day from the nine, though I am not sure whether all day from the nine, theugh. The next batch of chicks appeared two months later, at the end of May, and none have laid yet. I am expecting that when they do start
they will keep up through the winter, though the first they will keep up through the winter, though the frist
tot will possilly moult a little and slacken of tot will possibly moult a little and slacken of
I have not at hand the profit and loss a

uscious Peaches in Transit ists who they speak. sure varies between 15 and 20
poisons they are willing to purchase any amount in reason and apply it in the most efre manner. that a large percentage of the cron is being sprayed off the trees by the summer applications. Whether the material is too strong, the pressure used too great, or a combination of the two factors is caushg the troble, perienced growers are satisfied in their minds perienced growers are sa and Starks particularly, is
that the fruit, Kings and caused to drop after setting in a perfect manner. There are still of course a great number who do not spray thoroughly or methodicaly. We are not voiring their senderstand the work and know whereof

The Nature of the Complaint.
The recommendations followed in Ontario are sulphur wash is cosely ite generally, and a strength of 1.009 , or 1.008 for the summer sprays. At least by diluting the commercial mixture according to the instructions which accompany the purchase, or the advice handed out by the Agricultural Department. When the wash is home-made a hydrometer isused mendations. It appears uncommon to test the mixture after it is in the tank and ready for application; here we believe some work could be done betore any conclusions should be drawn. however, the face remains that the spraying material i-crowisn districts of Canada, yet the results are not so favorable. Two-and-one-half horse-power engines are commonly used in connection with the power sprayers, and the pres-

A number of the most experienced growers thoroughly convinced that some of the ale ale were being sonrayed off the foliage injured, and the fruit spurs for the succeeding crop destroyed. Five or ten years ago we might have considered
these views as the off. spring of prejudice and springof preju to spray
the desire not The growers find the work very unpleasant, but those who know
what clean fruit really what clean fruit really
is, and realize how is, and realize
important it is to pro duce it, know full well that they must con tinue to use the rod seeking for a prepara tion that will not deA Bordoaux Advo-

John Buchanan who resides and has a large acreage of or County, is a strong
advocate of the Bor

There is, I know, a balance in hand after allowing for considerable feed in stock and paid for and the expense of raising the chickens to their present age. Al
cockerels have been disposed of for the last two or three weeks. As nearly as I can estimate the profit
per bird is about $\$ 2.75$ to date, and I expect the pullets per beep not only themselves but the breeding stock over the winter and return a surplus as well a This is being done on "scientific lines, with alf
feed bought. E.ggs are sold at a high price, but feed also runs high. Figure out the profit if your hens laid as mine are doing, using your own prices pai
W. J. FLETCHER.

## HORTICULTURE.

Radical Views on Spraying in Nova Scotia.
In some parts of the Annapolis Valley spraying has been carried on for a period covering from ten to hifteen years, ani many of ehe growers during results of have been paying strict and arsenicals used. They
the different fungicides and have with this experience pretty well mastered the
art from the practical viewoint are now in a position to judge of the feasability of any recommendations They were of course started on the right road by the advocates of spraying and the authorities who made a study one valuable information gleaned from a decade's experience in fighting insect pests and attempting to control the persistent apple scab. They have used materials freely and they have not spared themselves. sprayers are cosure or too strong a mixture cannot be too much pressure upon as the expression of a people who desire to shirk their work or lighten their labors, at the
handle of the hand-pump. Regarding fungicides and
deaux mixture, yet the proportions entering into the preparation he usise are anything butt orthodox.
the
Heasons for using Bordeaux instead of limeHis reasons for using Bordeaux instead of lime-
sulphur are based on the conditions referred to in the preceding paragraphs. He has found that he cannot produce crops of Kings and Starks when spraying with lime-sulphur, neither do the other varieties fruit as abundantly as he would like when sprayed with the wash. Starks and Kings, particularly the latter he believes are injured by the lime-sulphur spray
The general spraying in his orchard is done twice before the blossoms open and once after they fall. Gravensteins, and some varieties very susceptible to scab, are sprayed ten days later, making four applica.
tions in all For the first spray 33 pounds of blute stone and 30 pounds of lump or burnt lime are used, with 100 gallons of water. The old recommendation regarding Bordeaux mixture was 4 pounds of blue stone, 4 pounds of lime, and 40 gallons of water.
The mixture Mr. Buchanan uses, it will be observed, The mixture Mr. Buchanan uses, it will be observed,
is much weaker in blue stone and stronger in lime than is much weaker in blue stone and stronger in lime than is made in the proportion of $33 / 4$ pounds of blue stone and 20 pounds of lime to 100 gallons of water. The third application has only $13 / 4$ pounds of blue stone hast spray is practically all lime; very little blue stone is used with 30 pounds of lime and 100 gallons of water. This mixture he has used for several years and finds that the lime itself has considerable fungicidal value as well as a favorable effect upon the riliage and generaveness of this preparation, the writer can say that the orchard was inspected on September 22 and the fruit with which the trees were heavily laden, generally speaking, was extoptionaly clean. The Gravensteins, which spot earel, 85 barrels graded No. 1 and out of one age of first-class fruit for a season such as this has been. Some thinning is usually done in the orchard, and of course the inferior specimens will be picked off. However, Spys, wageners, Ganos, and
were clean and well loaded. This method of spray-


A Fruit Farm Requires a good Barn
Rarn on the Vineland Experiment Station farm.
only instance bron in the Valley; in fact it is the only instance brought to our attention, and we can
only mention results.. in this instance. They, however, were pleasing. polis Valley that if some more information the Annathe mixing and applying of lime-sulphur is not brought to the growers, that they shall be obliged to return
to Bordeaux in order to produce satisfactory crops.

## Dates of Spraying.

A successful and extensive grower, S. B. Chute gave the following dates as the most suitable and are the sime of a ten-cent piecce; second, the leaves
anen the blossoms are showing; third, just as the petals have falien; fourth, ten days later. Another spray two frequently applied In his own orchard, yet he stated
teat it was difficult to pet orchardists generally that it was difficult to get orchardists generally to
apply more than four sprays, and sometimes not more than three. The two sprayings before the blossom period are considered very important in the control

## FARM BULLETIN

Observations in Elgin County
A representative of The Farmer's Advocate,
accompanied C. W. Buchanan, District Representative,
for Elgin County, on a motor trip through the Western
Toronto, Montreal,

## Toronto.

Receipts of live stock at Union Stoc Yards, West Toronto, Monday, Oct. 16
consiste 1 of 211 cars, 4,047 cattle 150 consiste
calves,
839 hogs, 2,631 sheep, 1,119 horses Choice steers and heifers firm, eight car-
Chads selling at $\$ 8$ to $\$ 8.75$; balance loads selling at $\$ 8$ to 88.75 ; balance of cattle stcady; lambs and shee
calves steady; hogs 25 cents lower calves steady; hogs 25 cents lowe City and Unio

Cars.
Cattle.
Calves
Hogs.
Hogs.
Sheep.
Horses wo market
915 were

## Cars Cattle. Calves Hogs. Sheep. Horses

portion of the county, and had an opportunity to
discuss As in other parts of the province, the excessive wet weather during the spring and early summer,
followed by drouth until practically all crops were
harvested, tended to reduce them harvested, tended to reduce them away below the where the soil is sandy loam and permitted of gettin the seeding done in fair time, the harvest was better than usual., The soil apparently held moisture and did not "bake" during the summer. On clay land that was thoroughly under-drained the yield was fairly
good. The past two seasons have demonstrated value of underdrainage, and a large number of tile have been laid this season, and the District Represent .
below normal, both in quality and vield but oats were an exceptionally heavy crop and was harvested in corn was patchy. On some farms the crop failure, and par with the best seasons, while probably on the ad joining farm it was an utter failure. It depended a good deal on the nature and qualitity of soil upon which
it was grown. The third week in September a frost it was grown. . The third week in September a frost
whitened the corn, and some farmers were !ortunate in getting the cropensiled at that time; others had difficulty considerabe pmount of corr was still in the field the
last of September. Mixed farming beiny followed no last of September. Mixed farming beiny forlowed, no
farmer had an entire failure of crops, and practically farmer had an entire failure of crops, and practically
all will have suffecient roughage to winter their stock. all will have sufficient roughage to winter their stock.
On awhoe, grain is starce and mill feeds will be resorted
to in many cases. Pastures suffered severely and where provision had not been made for supplementary
feeds, the cattle are a triffe low in flesh.
Through the section traversed, it was noticed that the Shorthorn breed predominated. On practically every farm was to be seen a herd of either pure-bred or well-bred grade Shorthorns. Very few of the
"scrub" kind were to be seen. The cows framed, deep, thick animals and both they and their offspring showed that particular attention was paid were not ashamed to show the bulls they were using. It is claimed that the quality of the stock is were using,
improving, which points to constructive radually improving, which points to constructive breeding.
In only one or two fields was there an indication of crossing of breeds. Practically all the steers andication of heifers are raised and finished on the farms on which they are dropped. The breeding is such that choice
bullocks are marketed. Some stockmen finish the catcle in the stable, while others feed lightly the early part of the winter season and sell the bullocks off grass during
the summer, the timeddepending on markets, and condition of the grass.
Clydesdale is the favorite breed of horse and on practically every farm are to be seen good specimens
of the breed. Most farmers visited had a horse two to dispose of, but they were in a position that two to dispose of, but they were in a position that
they did not have to make a sacrifice sale. They are holding for a good figure. At some of the local fairs
in that section there were more in that section there were more entries in practically
all classes for Clydesdales than at the larger exhibitions: all classes for Clydesdales than at the larger exhibitions;
farmers evidently take a pride in keeping a good stamp Sheep are kept on a large number for high prive of wool and mutton has been an inms. The
to incentive to increase the flocks. The crop of lambs was very
satisfactory this season. On some farms the mortalify satistactory this season. On some farms the mortalify
was rather high butyon the whole a fairly high percentpeared to be equally popular.

A considerable acreage is devoted to growing red
clover seed. While the straw is very shogrthis clover seed. While the straw is very short this year,
it is well headed and the sample of seed promises to be of high quality. The season has been unfavorable for the bean crop. In early spring the excessive wet prevented proper soil preparation; the excessive wet
by drouth, and before the crop was mature the vines. From the standpoint of yield a frost cut failure, but the price is high and some growers cla a that there will be as much profit in this year's five to ten-bushel-to-the-acre crop as when an average
crop is
thit is estimated that the acreage seeded to weat this tall is not over half the usual amount. The wroand is a good even stand season there is only growt on soin plowed late in the Some hold that rain the last week there in the field. start the dormant seed, while others claim that much of the seed has been in the ground so long that the germination is destroyed. Considerable wheat was weeks of fine weather it may equal the earlier sown by the time winter sets in.
There are a number of good commercial orchards in the county, and on every farm there is a small
orchard. Near the lake the tender frut well, but apples are the main fruit crop. Very few of the small orchards are pruned and sprayed regularly The san Jose Scale has infested many orchards and it dead, unless war is are years until the trees will be some apple trees are now showing the pest. In fact, disease and in many orchards the fruit is unmarketable owing to it being spotted with the scale. Thorough,
spraying on the dormant wood with lime sulphur is spraying on the dormant wood with lime sulphur is
the only thing that will save the situation
and .Other Leading Markets.
 were active all week. Light butchers
selling at from 7 c . to 8 c . per 369 cars, 1,342 cattle 2842 decrease 3 sheep, 5,124 horses and an increase of 39 calves compare
week of 1915 . Tor goore was a good demand all week fat good to choice heavy steers, also good
fteers and heifers, and they sold readily at satisfactory prices. Good
to choice cows were also in demand. but there were far too many of the comFeeders for distillery purposes, weighing from 900 to 1,000 lbs., met a ready sale at from $\$ 6.25$ to $\$ 6.75$; common feeders
were slow and sold at $\$ 5$ to $\$ 5.75$. Com were slow and sold at $\$ 5$ to $\$ 5.75$. Com-
mon stockers were also slow and sold at from $\$ 4.50$ to $\$ 5.50$; good to choice
stockers brought $\$ 6$ to $\$ 6.50$ There was very little enquiry for stock heifers,
this class are being sold to the packer this class are being sold to the packers
to kill, and sold around $\$ 5$ to $\$ 5.50$ Canners and cutters were about steady
Bulls were slightly lower. Milkers and springers were steady to firm, especially
forward springers milkers. The lamb market opened on
Monday Monday at $\$ 10.25$ to $\$ 10.40$ for choice, on
Wednesday they advanced to $\$ 10.75$
selling at from 7c. to 8c. per lb. Choice
veal calves were active and sold at from 11 c. to 12 c . per $1 \mathrm{~b} . ;$ common and heavy
fat calves were slow and hard to sell. Hogs advanced during the week; the market closing at $\$ 11$ to $\$ 11.10$ for fed
and watered, and $\$ 11.25$ to $\$ 11.35$ for
weighed off cars weighed off cars
Quotations
heavy steers, $\$ 8.25$ to $\$ 8.50$; good choice, $\$ 7.40$ to $\$ 7.65$; good heifers, $\$ 7$; medium, $\$ 6$ to $\$ 6.50$; common, $\$ 5$
 $\$ 5.25$; common, $\$ 4.25$ to $\$ 5$; canners $\$ 6.75$ to $\$ 7$; good, $\$ 6$ to $\$ 6.50$; medium $\$ 5.50$ to $\$ 6$; common, $\$ 5$ to $\$ 5.50$; feeders, best, $\$ 6.50$ to $\$ 6.75$; medium, $\$ 6$ to $\$ 6.25$;
common, $\$ 5$ to $\$ 5.75$; good to choice, $\$ 6$ to $\$ 6.50$; common and springers, $\$ 55$ to $\$ 115$; spring milkers choice, $\$ 10.75$ to $\$ 10.90$; culls 8 , tambs 83 cc . per lb.; butcher sheep, light,
to 8 c . per lb.; heavy fat sheep and bu
 4y.4. to $71 / 2 \mathrm{cc}$ per lb.; hogs, fed and cars, $\$ 1.20$ to $\$ 11.35$; wess $\$ 2.00$ off
light hogs, $\$ 2.50$ to $\$ 3.50$ off sows, $\$ 5$. light hogs, $\$ 2.50$ to $\$ 3.50$ off sows, $\$ 5$
off stags, and one-half of one per cent. government condemnation loss

## Breadstuffs.

Wheat. - Ontario, (according freights outside)- ${ }^{\text {No. }} 2$. 2 winter, new,
per car lot, $\$ 1.52$ to $\$ 1.54$. No, mercial, $\$ 1.47$ to $\$ 1.50$ : No. 2 commercial. to $\$ 1.32$ \$1.43; No. 3 commercial, $\$ 1.29$
 No. 4 wheat, $\$ 1.561 / 2$; old crop trading Oats.-Ontario, No. 2 white (new
55 c . to 57 c ; No. 3 white 54 c Manitoba oats (track, bay ports)$2 \mathrm{C} . \mathrm{W}$. ${ }^{61 \mathrm{c} . \text {., according to freights }}$ outide; No. 3 C . W., 60c.; extra No. 1


Rye. Acc
No. 2, new, No. 2 neww, outide, nomin
ourtey.
Ban 95c., no
nominal. American track, Toront ing to sample
Toronto. Toronto were: partents, $\$ 8.80$
88.60 , in jute

Hay Hay.-New No. 1 per ton

ton, $\$ 9$ to $\$ 9$ Straw.- Ba
Bran. $\$ 29$ Bran.-\$29
freights; midd freights; good

Rye. According to fre
No. 2 new, $\$ 1.18$ to $\$ 1.20$
Buckwheat. - According
No. , , nellwheat: - According outside, nominal, 85 c . to 87 c .
 ${ }^{956, \text { n nom }}$ nominal.
nominal. $\begin{gathered}\text { American Corn.-No. } 3 \text { yellow, } 98 \text { c. }\end{gathered}$ track, Toronto.
Flour.-Ontario, winter, new, according to sample, ${ }^{87.50, ~ i n ~ b a g s, ~ t r a c k ~}$ Toronto. Were: first patents, $\$ 9.30$; second patents, is.8.80, in jute; strong bakers
88.60 , in jute; in cotton, 10 c . more.

Hay and Millfeed
Hay.-New, car lots, track, Toronto,
Ner ton, $\$ 10$ to $\$ 12 ;$ No. 2 per No. $\$ 9$ to $\$ 9.50$.
ton,
Straw.
Straw. - Baled, car lots, $\$ 7$ to $\$ 8$.
Bran. $\$ 29$ to $\$ 30$ per ton, Montrea Bran. $-\$ 29$ to $\$ 30$ per ton, Montreal
freights; middlings, $\$ 33$ per ton, Montreal freights; good
Montreal freights.

Country Produce
Butter.--Butter advanced from one to two cents per pound on the whole-
sales during the past week. Creamery, sales during the past week. Creamery,
fresh-made pound squares selling at
40c. to to 4 c . per 1 b .; ; reamery solids,
 per lb.; separator dairy,
per 1 lb ,
Eggs.- New-laid eggs in cartons adEggs. New-Laid eggs in cartons act
vanced two cents per dozen wholesale,
selling at 45 c . per dozen; the fresh eggs selling at 45 c . per dozen; the fresh eggs
and selects, in case lots, remaining and selects, in case lots, remaining
stationary, selling at 36 c . and 39 c . per dozen respectively.
dozen respectively,
Poultry. Receips were not very
heavy during the past week, prices remaining about stationary. Live-weight prices-chickens, 15 c . per lb .; ducks,
12.. per H ; turkeys, 25 c . per ib .; fowl, 12 c . per $\mathrm{th} . ;$ turkeys, 25 c . per ibl .; fowl,
4 lbs . and
over, 14 c . per lb .; fowl, under
 prime white, $\$ 4.40$ to $\$ 4.80$, according Cheese. June, 24 c . to 25 c . per 1 lb .
new, 23 c . per 1 lb ; twins, $231 / \mathrm{cc}$. per 1 b . new, 23c. per 1b; twins, $231 / 2 \mathrm{cc}$. per lb.
Honey. Honey is. coming freely
but remained about stationary in price but remained about stationary in price
with the exception of the comb variety, with the exception of the comb variety,
which was slightly easier!. $60-1 \mathrm{~b}$. tins selling at 12 c . per 1 lb .; 5 -lb. tins at $12 \mathrm{t} / 2 \mathrm{C}$
per 1 bb ; combs, $\$ 1.50$ to $\$ 3$ per dozen.

Hides and Skins.
City hides, flat 20 c.; country hides,
cured, 18 c.i country hides cured, 18 c .; country hides, part cured,
17. c.; contry hides, green, 16 c .; calf
skins
 sheep skins, country, $\$ 1.50$ to $\$ 3$; lamb
skins and pelts, $\$ 1$ to $\$ 1.50$; horse hair, per 1 b., 38 c.; horse hides, No. $1, \$ 3$
to $\$ 6$ No. No. $\$ 2.50$ to $\$ 5.50$; wool, washed
 32 c . to 35 c . per 1 b. ; tallow, No. $1,61 / 2 \mathrm{c}$.
to

## Wholesale Fruits and Vegetables.

Receipts considerably decreased during
the past week on the wholesale fruit and vegetable market. ments received, but they have fallen of
owing to the frost, and firmed slightly towards, the end of the week; blues and greens selling at 18 c . to 20 c ., and Red
Rogers at $221 / 2 \mathrm{c}$. to 25 c . per 6 -qt. basket. Peaches were generally of poor quality basket, with a few choice lenos bringing 40 c . to 50 c .; the $11-\mathrm{qt}$. flats at 30 c . to
50 c ., and 11 -qt. lenos at 35 c . to 60 c . with some choice ones at 75 c . to $\$ 1$. Pears.-Keiffers brought from 30c
to 40 c . per 11 -qt. basket; the bette
varieties selling at 40 c , to 60 c . with few choice Bartletts going at 75 c . and Quc.
Quinces came in quite freely; the 11
at. flats selling at 40 c . to 50 c ., and 11 t. lenos at 75 c . to 80 c . c ., and 11 selling at 50 c . to 75 c . and 85 c . to $\$ 1.25$ the 11 -qt fats selling and 11 -qt. lenos at 50 c , to 60 c .
Green tomatoes sold at 20 c . to 25 c per $11-q$ t. basket.
Vegetables have remained quite scarce Potatoes have a firming tendency Potatoes have a firming tendency;
the New Brunswick Delawares being
quite stiff at $\$ 1.65$ per $90-\mathrm{lb}$. bag, with some dealers asking $\$ 1.75$; the Prince Edward Island's selling at $\$ 1.50$ per $90-$
lb. bag.

Montreal. Very little change took place in the
local cattle occurrence of Thanksgiving Day did not bring about the customary interest of a large volume of business, and some good cattle were offered in anticipation
of increased demand. Sales of choice of increased demand. Sales of choice
steers were heard of at 8 c. to $88 / 2$ c.
but the but the general price prevailing for good steers continued at $71 / \mathrm{cc}$. to $7 / 2 \mathrm{c}$ c. per
lb. The prevailing high price undoubted
ly exercises ly exercises a restraining influence o purchasers. Medium steers were quoted
at 6 c. to 7 c., and common ranged down
 generally from 5 c . to about as high as 7c. per 1 b , while cows were mostly $1 / 2 \mathrm{c}$,
under this range. The emand for under this range. The emand for
lambs continued quite active, and Ontario stock was quoted at $91 / 4 \mathrm{c}$. to $91 / 2$. per lb, while Quebec stock was 8c. to 834 c .
per lb. Offerings of sheep were limited, and the price was steady at $6 \frac{1}{2}$ c.
per lb., while cows ranged from per ib., while cows ranged from 7c.
10 c . per lo. There was no change to speak of in the market sates of selected stock being reported
at $111 / 4$. up to $111 / 2 \mathrm{c}$. per lb., weighed off
cars Horses.-Dealers reported occasiona sales to lumbermen, but outside of this
almost nothing was done in the market for horses Prices were unchanged at
 light draft horses, weighing 1,400 to
1,500 lbs., $\$ 150$ to $\$ 200$ each; small horses, $\$ 100$ to $\$ 125$ each; culls, $\$ 50$ horses, $\$ 200$ to $\$ 250$ each.
Dressed Hogs.-The market for dressed hogs was fairly active, and prices were
quite a little below recent
quotation aute a
being 16 c . to $161 / 4 \mathrm{c}$. for abattoir, fresh-
killed stock killed stock.
Potatoes.
Potatoes.-Very little change took
place in the price of potatoes last week place in the price of potatoes last week
It was hoped here some time ago that the market would decline, but this de cline has not yet taken place, and some
are now of the opinion that it will not take place at all. Green Mountains
were quoted in car lots at $\$ 1.35$ to $\$ 1.40$ wer 90 -lbe., ex-track, and Quebec potatoes at 10c. below these figures. In a jobbing way', bagged, about 2uc. is
prices all the way round
Maple Syrup and Honey.-Ther practically no change in the market for syrup, the price of 8-1b. tins being stit
90 c to $9 \mathrm{c} . \mathrm{c}$ and 10 lb . tins, $\$ 1.05$ to \$1.10, while. 13 -lb. tins ranged from $\$ 1.25$ to $\$ 1.50$, according to quality. Maple
sugar was 13 c . to 14c. Honey was sugare was 13c. to 144. Honey was in comb, and $121 / 2 \mathrm{c}$ c. to 13 c . for white
extracted, and for brown clover comb while brown extracted was 2 c . less,
and buckwheat was 9 c , to 10 c per Eggs.-The market for eggs was ex-
ceedingly firm, and very high prices were paid in $\begin{aligned} & \text { order to secure really choice } \\ & \text { stock. }\end{aligned}$ Quotations for strictly new-laid stock. Quotations for strictly new-laid
were 45 c . in a wholesale way, but it may be doubted if these are what they are claimed to be. No. 1 selected wer
$38 \mathrm{C}, \mathrm{NNo}^{1} 1$ candled, 34c., and No. candled, 30
Butter.-The market for creamery gradually advances from week to week
Finest creamery was quoted at 390 to $39 / 2$ c., while fine stock was $1 / 2$ c. below these figures. Undergrades ranged from $371 / 2$ c. to 38 . Dairy butter sold all the
way from 30 c. to $31 / 2$ c., according t quality.
Chan itse.-The market was even higher han it was the previous week, and fines for colored, making a new high record in
history. Finest Western white cheese history. Finest Western white cheese Grain.-The market for oats was higher than it was the previous week. No.
Canadian Western were quoted at $631 / 2$ per bushel, ex-store; No. 1 feed bein $621 / 2$ c., and No. 2 feed, 62 c .
Flour--Prices of flour continued steady at recent advances. Manitoba frist
patents were $\$ 9.40$ per barrel in bags;
 $\$ 8.70$. Ontario winter wheat flour was
$\$ 8.30$ to $\$ 8.60$ per barrel, in wood, for $\$ 90$ per cents, and $\$ 3.95$ to $\$ 4.10$ per bag. Milfeed.-Prices were $\$ 1$ per ton higher last week. Bran was $\$ 28$ per ton,
shorts, $\$ 30, ~ m i d d l i n g s$, , $\$ 32$, and pure grain mouile, $\$ 37$, with
$\$ 35$ per ton, including bags.

Baled Hay-Prices were unchanged at $\$ 13$ per ton for No. 2 baled hay; $\$ 11.50$
for No. 3 , and $\$ 10.50$ for clover mixed, Hides.-Lamb skins advanced to $\$ 1.60$ each; others were steady. Calf skins
30c. for No. 2, and 32 . for No. 1; beef hides, 21 c ., 22 c . and 23 c . for No's. 3, 2 and 1 respectively. Horse hides, $\$ 1.50$
each for No 3; $\$ 2.50$ for No. 2, and $\$ 3.50$ each for No $3 ; \$ 2.50$ for No. 2 , and $\$ 3.50$
for No and rough, $21 / 2$

## Buffalo.

Cattle.-A liberal run of cattle and very much of one class of medium and
less desirable kinds had the effect of less desirable kinds had the effect of
lowering prices generally from fifteen lowering prices generally from firteen were around fifteen to twenty cars sisted that these sold steady, most sellers could see a lower range than the previous
week. Best steers offered were week. Best steers, of ered were $\begin{aligned} & \text { Can } \\ & \text { adians and sold from } \$ 8.60 \text { to } \\ & \$ 8.65\end{aligned}$, general range on Canadians being from
88 to $\$ 8.35$. Smallest number of rea choice handy weight butchering steers
and these were steady to shade lower mediume were steady to shace lower, medium and common, half fat, grassy,
kinds ruling mostly a quarter lower Good cows and medium kinds were possibly a dime to fifteen lower, but canner and cutter stuff remained steady Bairy cows sold stronger, with the medium and common kinds about steady. On Monday there were futly sixty loads of
Canadians, and included all classes and kinds, from the shipping steer o down to the canner. 25 heads were totaled 5,85 week wor the previous week, and 7,300 head for the corresponding week last year. Quotations:-Choice to prime
Shipping Steers.-Choin natives, $\$ 9.50$ to $\$ 1025$; fair to good 88.25 to 88.75 ; plain, 87.50 to 88 ; very
coarise and common, $\$ 7$ to $\$ 7.50$; bes Canadian, $\$ 8.40$ to $\$ 8.65$; fair to good,
$\$ 7.50$ to $\$ 8$; common and plain, $\$ 7$ to $\$ 7.25$.
$\$ 8.25$ butchering Steers. - Choice heavy, $\$ 8.25$ to $\$ 8.50$; fair to good, $\$ 7.50$ to $\$ 8$
best handy, $\$ 7.75$ to $\$ 8.50$; fair to good $\$ 6.75$ to $\$ 7.50$; light and common, $\$$ to $\$ 6.50$; yearlings, prime, $\$ 9.50$ to $\$ 10.25$; Cows and Heifers. - Best handy butcher heifers, $\$ 7.40$ to $\$ 7.65$; fair butchering heifers, $\$ 5.75$ to 86.25 ; light and common, $\$ 5$ to $\$ 5.50$; best heavy fat cows,
$\$ 6.75$ to $\$ 7$; good butchering cows, $\$ 6$ to $\$ 6.50$; medium to fair, $\$ 5$ to $\$ 5.50$; to \$4. butchering, $\$ 6.25$ to $\$ 6.50$.
${ }^{5} 7$ tockers and Feeders.- 87.15 . $\$ 7$ to $\$ 7.15$; common to fair, $\$ 5.25$ to
85.60 best stockers, $\$ 6.50$ to $\$ 7$; common to good, $\$ 5$ to $\$ 5.50$.
Milchers and Springers.-Good to best, in small lots, $\$ 80$ to $\$ 100 ;$ in carloads, 870 to 875 ; medium to fair, in small lots,
860 to $\$ 65$; in car loads, $\$ 55$ to $\$ 60$, $\$ 60$ to $\$ 8$, in car loads, $\$ 55$ to $\$ 6$ Hogs.-Heavy receipts on the opening
day last week resulted in a break at all marketing points. Buffalo's run Monday reack over 19,000 head and while the top for the day was $\$ 10$
with several decks selling at $\$ 9.75$, bulk of the receipts ran light, and over seventyfive per cent. of the sales were made on a basis of $\$ 9.60$. Pigs also ruled lower selling generally at $\$ 9$. Tesestay st trade
was steady to strong; Wednesday prices was steady to stroq, Wuarter to fifty cents Thursday the same class of hogs that
sold on Monday at $\$ 9.60$ were placed sold on Monday at $\$ 9.60$ were placed at $\$ 10.25$, and
hogs sold rat $\$ 10.25$ and $\$ 10.35$, with a few that were better weights selling at
$\$ 10.40$. Tuesday pigs sold at $\$ 9$. Wednes day they brought 9.25 , and Thursda and Friday bulk landed at $\$ 9.50$. Re ceipts the past week were 32,300 head as compared with 35,981 head for the
week previous, and 36,400 head for then same week a year ago. narrow range last week. Monday to lambs sold at \$10.65, few \$10.75; Tuesday not many sold above 10 , and Friday majority sold at $\$ 10.60$, with a few \$10.65. Best cull lambs sold up to $\$ 9.25$ and 89.50 ; top for yearlings was $\$ 9$; wether sheep would
sell around 88 , and the general range on sell around $\$ 8$, and the general range on
ewes was from $\$ 7.25$ to $\$ 7.50$. receipts totaled 15,900 head, being
against 15,168 head for the week before
and 20,600 head for the same week year ago.
Calves.-Last week started with top Calves.-Last week started with to
veals selling at $\$ 13$; Tuesday's trade was steady; Wednesday and Thurscay tops
ranged from $\$ 13.50$ to $\$ 14$, and Friday ranged foom $\$ 13.50$. Cull grades ranged from $\$ 11.50$ down, heavy fat calves unless something on the vealy order,
sold from $\$ 7$ to $\$ 9$, and grassers had to be pretty fleshy to fetch above 85.50 .
Friday's receipts included 250 Friday's receipts included 250 head of
Canadians that were a mixed lot, and they sold anywhere from 85.50 for the grassers up to $\$ 12.50$ for the top veals,
some heavy rough calves landing $\$ 6.50$. Receipts last week were 2,200 head, as against 2,213 head for the week previous, and 1,900 head for the same
weelk week a year ago.

## Ghicago

Cattle.-Beeves, $\$ 6.6 \mathrm{JJ}$ to $\$ 11.10$; western steers, $\$ 6.15$ to $\$ 9.30$; stockers and feeders, \$. 83.50 . \$3.50 to \$9.30; calves, 87.25 to $\$ 11.50$ mixed, $\$ 9.20$ to $\$ 10.10$; heavy, $\$ 9.10$
 ${ }_{\$ 9.95}^{\$ 0.75}$


Cheese Markets
 $21 / 1 / \mathrm{c}$.; Listowel, $21 / 4 \mathrm{c}$.; Perth, $21 / / \mathrm{c}$ Picton, 2111-10c. to 2194.c; Iroquois Napanee $21^{1 / 2}$ c. Danville Oue Mont Joli, 21 5-16c.; St. Hyacinthe 209.16 c. .' Montreal, finest westerns 2134.; inest easterns, $/ 21 /$ c., New
specials, 21 c . to $21 / \mathrm{c}$. , average fancy, 213.c.
special
2034 .

Attention is directed to the adver tisement of the big consignment sale
eighty head of Shorthorns, by the Western Ontario Consignment Sale Company, at London, November 8. This will be one of the big sales of the year, and all interested In Shorthorns for beef or milk should get a catalogue
from Harry Smith, Hay, Ont., and plan to attend and purchase

## Coming Events.

Nov. 1, 2 and 3.-Plowing Match Dec. 1 to 8.-Ontario Provincial Winter Fair, Guelph, Ont
ternational Fat Stock
Dec. 8 to 9.-Toronto Fat Stock Show, Union Stock Yards, Toronto

## Sale Dates.

Oct. 26.-O. A. C. Pure-Bred Stock, Guelph, Ont. Nov. 8.-Western Ontario Consign-
ment Sale Co. Fraser House Stables London, Ont., Shorthorns.

Questions and Answers, Miscellaneous.

## Scurfy Logs.

The legs of a young Clydesdale horse frequently break out in front of the hocks. The joints get scurfy and remedies but cannot get them healed.

Ans.-The cracking of the skin and the scurfiness is frequently accompanied or preceded by a swelling of the legs.
Sonte horses are predisposed to this trouble. Heavy feeding and lack of exercise encourage it. Give a purgative and follow up with 3 drams week swollen or inflamed apply a hot linseed meal poultice to the affected part then dress three times daily with oxide zinc ointment to which has been added
20 drops of carbolic acid to each ounce

##  <br> 




4



Ex-Premier Venizelos, of Greece Who has taken the side of the Allies from the
beginning of the war, and is now at

## A Fancy

by edith livingston smith
Above the Birches were dreams adrift
For spent was the bright October day For spent was the bright October day, And I drank of wonder upon my way-
Drank the draught from a wind-tossed cup Drani the draught from a wind-tossed cup
With soul athrill and with thirst akeen While the sky in the east held darkening And the sky in the west was the sunset

The whispering Birches saw her firstThe Autumn Nymph with her rustling The Frost had wounded her glowing heart,
But she spoke us, fair, as she passed fleet; To her we lifted our gold-red cups:-
"Here's to the maid who can smile Then we watched her enter the painted The affrighted Birches-the Wind-
and I.

## Butter-Making on the

 Farm.The following article was written
by Miss. . B. Gregory, of IIderton, Ont., wh has taken eany, of IIIderton, Ontt,
at the Canadian Nationas for fobtter Toronto, and and the Western Fair
 account of hords shand Miss Gregory's
butter will be read mikes her delicious no doubt with profit, by many buttermakers in Canada.-Ed.।
Probably it would be as well to state
first the ytensils necess firster. itensis necessary to make
butter. Of course nowa-days every larmer
then thes a a cream separator,
the butter-worker. 1 suppose some of the readers may use a butter-bowl but if
they knew, how much better and easier they could work the butter with a worker they would soon discard their bowl in
favor oot one. I use the lever butter
worker then con ream strainer, salt sifter, pound print butter spade, or ladle and lastly scales
 smelinint food there viven any strong the abolute
cleaniliness of all utensist, and the olite
room and cellar must be clean and sweet I find it is best to have the cream separated leave the separator without any cream spout. I have no experience with mill or cream testers so could not say what percentage of butter fat this cream would contain. The different makes respect too. The cream should be cooled immediat couple of times will help to cool quicke When it is chilled, it can be put in the crock or can, that contains previous In the summer time there is no difficulty to get the cream to sour or ripen as
does so naturally. Some buttermaker n the winter do have trouble in ripening flavored butter come almost entirely if they would warm 65 to 70 degrees, and then add about one pint of sour cream, or buttermilk
to every two gallonstor less of the warmed to every two gallonsfor less of the warmed
sweet cream. Leave the cream standing sweet cream. Leave the cream standing
in'a fairly warm place for eight or twelve hours and then set away in a cool place and add the sweet cream after each
skimming as in the summer. If living skimming as in the summer. If living cured from there and used instead of the sour cream or buttermilk. If using
culture keep the cream sweet tiłt there is enough for a churning and then warm and add the culture the evening before Keep the cream at as Keep the cream at as low a temperature as possible while saving for a churning, churning temperature for several hours before churning. From 50 to 56 degrees
is a good churning temperature. A low is a good churning temperature. A low
temperature may take a little longer time to churn but the butter will be firmer and better. The butter maker better after a few trials. In the winter
churn at a higher temperature Do not keep the cream after it is ripened. Better churn small quantities too long a time. than keep the cream fore using, first scald with hot wate then rub on a little salt and chill with cold water, which closes the pores of sticking. Wash and scald as soon as
finished with the Strain the cream into the churn, and
and if using butter-color add now accord ing to directions given on bottle. Always stop churning and draw of the
buttermilk when the granules of butter are about the size of kernels of corn.
Never churn to a large lump. of quarts of water of a slightly lower emperature than the cream, added when wheat will help to keep the granules separate and will make the butter firmer.
Use about the same quantity of water to wash butter as there was cream. I prefer to wash butter twice. In washing butter the water is poured in the
churn and the churn given a few rapid second wash water should be almos clear when drawn off.
Use a good brand of dairy salt, from one half to one ounce to the pound if you are supplying customers. The market demands butter salted lightly. There is no set length of time to work butter; just work till when you cut is compact and the openings sutter and the moisture stands out in tiny beads almost like pin points. Now the
butter is ready to make into pound
prints which is the most profitable way When working butter, if white curdy specks are noticed, these are coaguleted
skim-milk, caused mostly by the cream being separated too thin and also by being separated too thin and also by Butter must be wrapped in parchment paper. Have your name and address or the name of your farm printed on the butter wrappers, and I am sure if
the butter has been made in this manner it will command the highest price on the market and give splendid satis action to the consumers, which is the
aim of all buttermakers.

## Hope's Quiet Hour

## Restore Such a One

 in any trepass, ye which are spiritual restore such a one in a spirit of meekness looking to thyself, lest thou also betempted.-Gal. $6: 1$, (R.V.) A poor girl once told me that she had asked God's forgiveness path and had Him for daily strength she was trying to struggle against temptation; but the condemnation of her past sins. They had no faith in her desire to be better and their "I-am-holier-than-thou" at-
titude made her feel almost despairing. They seemed anxious to heap upon her to be her due, as if they considered heard the story of the prodigal son. ragged and that heartbraken prodigal once-familiar road which led to his no son's place there for him, but perhas he might be allowed to creep in among he hired servants. But the father's love was not dead, as he had feared; and father said nothing about his many sins; but was filled with joy because
the dead was alive again and the lost was ound.
But the respectable elder brother -how differently he acted! He refused household, refused to take his brother's hand and offer to help to him regain his
old position as a trusted and honored member of society. He, the prodigal miserable outcast. The son a hungry, father, he had sunk into depths of dehe deserved all he got! Why should everybody be making such a fuss over
a drunken ne'er-do-weel?," There are many people who seem in his attitude of aloofness. "Let ye prodigal keep straight for a few in his promises of will put a little faith say. In the meantime they are losing the chance of helping to restore a fallen getting the Apostle's warning: "Contempted." If the respectable people had been brought up in a city slum, knowing the name of God only as an
oath, huddled together in a crowded room with no chance of privacy, they
might have been prodigals, to A judge in one of the modern juvenile courts said: "It is the personal touch that if I sat on a high platform behind a high desk, such as we had in our city court, with the boy on the prisoners'
bench some distance away, my words
had little effect
get close enough to him to put my hat on his head or shoulder or my arm around him-in nearly every such case Is not that what our Elder Brother good, but while we were yet we were He got as close to us as yet sinnee His arm is always round us while are confessing our sins and trying to fight against temptation.
Even if respectable people refuse to have anything to do with one who ha man, there is always rejoicing God and over a repentant sinner. The thief on the cross did not have to wait until he had proved by a good life that he was repentant. The Saviour of the
world at once offered His royal fellowship, saying, "thou shalt be with Me" A young murderer, who had confene his guilt, was on the eve of execution. One who had visited him many times, and believed in the poor boy's penitence, munion. Then he said the holy com munion. Then he said tenderly: "The
Father's welcome is waiting for prodigal son just a few steps farther on." "He restoreth my soul," said the Psalmist of the Divine Shepherd. The miracle forgive sins and heal sick souls. We need His restoring touch souls. We and every hour. Who are we to look down in contempt on our fellow-sinners? Our place is beside them, kneeling beore the golden mercy-seat; and love
will draw others nearer to Christ when stern condemnation will Christ when away. We may help to restore an erring brother to hope and happiness, or we
may drive him away from God by our
cold severity. In the New York Tribune (Sept. 24) are pictures of prisoners in Sing Sing the new. The old system meant stripes and the lock step, guards with clubs, etc.
Mott Osborne, puts the men on their honor, treats them as brothers instead of convicts, and aims at the restoration of degraded, souls to righteousness and happiness. Punishment for crime is a remedial rather than retaliatory
Mr. Osborne was determined to get
near the prisoners, and so-a few years ago--he took the name of "Tom Brown" and endured a week of prison life that
he might understand just how it felt. he might understand just how it felt. convicts in the shops and slept at night in a prison cell. Then he went promptly to work, determined to treat the prisoners as men and rouse in them self-respect; 1915. The warden introduced the new
ystem in the most unruly shop first. Gathering the 250 workers in the knitting Gathering the 250 workers in the knitting
shop about him during his first week (in authority) at Sing Sing, he said: Boys, I understand that you are the -and I'm The men stared at the warden uneasily. 'I'm going to dismiss your guard, have to choose your own delegates, fom among yourselves, to preserve The men in the knitting shop have industrious in thest-behaved and most There was a desperate criminal in Sing Sing at that time, who had been in many other prisons, and had been five years in solitary confinement when Mr . Osborne made his acquaintance.
On the Fourth of July, when the prisonets celebrated their first games in the prison yard, Mr. Osborne invited this criminal to go with him and "see the games. He was not sent back to solitary confine-
nature was turn righteousness, an righteou
iffuence
convicts influence
convicts. ers has come to ers
value. There
fable about th fable and the win
ssin and
could first remo
of course, the co Of course, the co wrap the cloak ab sun soon induced
Our Lord wa of publicans an
words of wrath w
" words of "sinner
despised
selves to be right selves to be right
that we ourselves that we ourselves
ourselves standing Pharisees: humbly: "Fathe heaven, and in more worthy ness-we may cleared
"Entice him
Till he, too,
Perhaps we
crushing" our
crushing" our
refusing to have
for generations, for generations.
and ask God to give those who
us. Do we rea s. we forgive? ivertess ${ }^{-}$in ou even any wish th
of God to use th our Lord first ga careful to warn
unbrotherly unbrotherly fash if ye forgive me heavenly Fathe
but if ye forgive neither will yo trespasses."
One of th horrible war is
tween the Rus yet it is only a 1
the Russo-Japan After the
tion-are we we prepared to and love our for crimes is a $n$
natured overloo ness can do t they are the graded children on. Our busi
of our Fathersoldiers seem we must choo we must alwa day when righ
clasp hands, a A year ago went out to die
and yet she di giveness by millions, in
died cursing he died cursing he orgive those
Edith Cavell

## The

John Hangs sculptor, has
part of the was engaged i seat of Earl
the great sol

Mrs. Chamb Mrs. Cham
British statesn
whose third whose third w
recently to Ca of the House

The war, ${ }^{\text {s }}$
by cutting off by cutting off
has started a
negro laborers

Ture was turned towards the way of righteousness, and he became a powerfu itinurence
Convicts, humane system of treating prisoners has come to stay. There is much truth in the old yalue. There is mager between the tabe and the wind as to which of them could first remove wind only made him Of course, the cold wind only made ham wrap the cloak about im to throw it off. sun soon induced called ,the "Frien
Our Lord was of publicans and sinners." His awfu words of wrath were spoken to those who despised "sinners" and thought themselves to be righteous. Lest we thers-lest we find that weourselves a a Pharises. It is we who must - say humbly: "Father, I have sinned agains heaven, and in to be called Thy son. Then-conscious of our own unworthi hess-we may find our way suddenly ness-w
cleared
and-

Entice him home to be forgiven,
Till he, too, see his Saviour plain
Perhaps we talk about "completely Crushing" our enemies in this war and fus erations. Then we kneel down oand ask God to forgive us "as" we forgive those who have trespassed against
us. Do we really want to be forgiven us. Do we really want to gleam of foris we forgive? in our own hearts, without even any wish to orgive, 1 tayer. When
of God to use the Lord's Prayen our Lord first gave us the prayer He was
careful to warn us against using it in careful to warn us against using it in
unbrotherly fashion. His one comment on this great family prayer was: "For if ye forgive men their trespasses, your heavenly Father will also forgive you: but if ye forgive not men their trespasses, trespasses. One of the pleasant things about this
orrible war is the good-fllowship between the Russians and Japanese-and
yet it is only a little over ten years since the Russo-Japanese War! on-are we planing to of restora elder brother" in the parable, or are we prepared to obey' our Master's orders
and love our enemies?
Punishment for crimes is a n necessity; and weak, good-
natured overlooking of frightfiul wickedeess can do terrible mischief. God's punishments are stern and heavy but hey are the chastisements of a thather. graded children, not at their exterminao. Our business is to catch the spirit
of Father-as, indeed, many of our soldiers seem to do. When righteousness and peace cannot be had together
we must choose righteousness-even if we must choose righteousness-even if
it means war (St. Matt. $\mathrm{X}: 34,39$ ). ${ }^{\text {But }}$ we must always look forward to the
day when righteousness and peace shall clasp hands, and our enemies shall be
transformed into friends transformed into friends.
A year ago a noble English woman went out to die. Her wrongs were great,
and yet she did not refuse to offer forand yet she did not refuse to nerethry
givenss to those who cared nothing
for it. Would her name be honored by millions, in many lands, if she had
died cursing her enemies instead of forgiving them? It is not impossible to
forgive those Edith Cavell did it, and so can we.

## The Windrow

John Hangston Bonnor, an English sculptor, has been appointed to do
part of' he decorations for the new
Partiament Buildings at Ottawa. He vas engaged Buildings at Ottawa. Heco seat of Earl Kitchener at the time of
the great soldier's death.

Mrs. Chamberlain, widow of the whose third wife she was, was married recently to Canon Carnagie, the chaplain
of the House of Commons.

The war, says the Literary Digest, by cutting off immigration from Europ negro laborers from the south of the

United States. The movement is said to be assuming large dimensions, and is
looked upon in many quarters as most looked upon
significant.

The aim of human life, no doubt, is happiness. But, after all, what is
happiness? Efficiency, wealth, material happiness? Efficiency, wealth, material
comfort? Many by their lives do so affirm; few are cynical enough to say so; and on their death-beds none will feel so. Not even freedom in
itself brings happiness. Happiness lies in breadth of heart, and bread of heart is that inward freedom which has the power to understand, feel with, and, if need be, help others. In breadth of heart are
founded justice, love, sacrifice: withfounded justice, love, sacrifice: with ing to any of our efforts, and the tale more than that of supremely gifted
animals.- John Galsworthy, in the "Atlantic."

People who have been planting out burbs in the garden for spring bloom-
ing, or in pots to force during the winter, will be interested to know that in Holland whole "ranches" are de-
voted to bulb culture. Many of these ranches are owned, by women, who sometimes also grow mushrooms in
the cellars where the bulbs for forcing are rooted. All the cultivation is on a strictly intensive scale, and not a foot of ground is

Strange Rights and Privileges Foremost among hereditary offices
is that of Earl Marshal, held by the Duke of Norfolk. Among his duties is the publication of all Royal proclamations concerning the Coronation, as well as
making all arrangements for the same. As Earl of Arundel, the same nobleman is Chief Butler, for which the fee is a golden basin and ewer.


Sir Sam Hughes Visits the Front and Shows Aspiring Bomb-Throwers the "Hughes Hold.

The Marquess of Exeter is the He-
reditary Grand Almoner of England. He has to collect certain monies, and distribute the same at the Coronation his perquisite
perque Arehbishop of Canterbury falls the ridht of crowning the Sovereign; to his Grace of York that of crowning of Durham, Sovereign in the Coronasupport the Sovereign in the Coronahand respectively.
During the procession, the Barons of the Cinque Ports are privileged to carry above the Sovereign a canopy o
cloth of gold or purple silk, while to cloth of gold or purple silk, while to
the Loord of the Manor of Worksop, Nottinghanshire, belongs the servic, of finding a glove for the Sovereign right hand, and orm which holds the sceptre. arm which holds the sceptre the Earl of Rothes, and when, some years ago, Countess of Rothes claimed this privilege and presented her with a pair of slippers, tative of the Spencers to be present
coat be adorned with gold buttons of a prescribed weight. The story goes that
on one occasion the then Earl Spencer against the wish of his Sovereign, refoiled by the resource of the Lord Chancellor, who insisted that his gold buttons should be weighed, when one
was found to be slightly below the proper standard. Such being the case, the Earl, of course, could no longer
assert his privilege, so was forced to assert his privilege
retire discomfited
The reason why Baron Kinsale, of Ireland, possesses the privilege of re-
maining covered in his Sovereign's presence is as follows: In the reign of John a dispute arose between him and title to the Duchy of Normandy, and to save unnecessary bloodshed it was agreed to refer the matter to two
champions who should decide it by
single combat. appeared in the lists, his gigantic proportions so terrified the French champion that the latter, setting spurs nd never returned. In this way the matter was settled without a blow.
For this service, in addition to a large money grant, he and his successorsmong whom is the present Lord Kin obeisance to be covered in the Royal presence. Lord Forester likewise pos sesses the same privilege.
Ing the right of interment in. West minster Abbey, and in having the great west' door open to admit the passage St. Nicholas Chapel, near the tomb of the Duchess of Somerset, widow of the

## Books For Preachers.

Boston has on Beacon Hill one of the
almost trebled in number. In the six New England States there
perhaps 7,000 clergymen; of these $1,700-$
500 in Greater Boston and 1,200 out-
side-are patrons of the library. Each side-are patrons of the library. Each quarter it issues a bibliography of a
living topic in which ministers are in living topi
terested.
The shelves are kept clear of ant quated books. When the present plan was adopted about 4,000 outworn books are bought each year, selected by an interdenominational selected tee of Boston clergymen. In circulation, sociological books lead all other classes. Biographies are next in or der of popularity. Purely homiletica The borrowers are not appropriating other men's sermons. Books of an in spirational character are popular. A depository of books for scholars, it is not intended to be but a practica he latest volumes upon all subject having to do with the duties of the pastorate.-The Independent

The Dobrudja.
At present we are hearing much of the Dobrudja, in which Russian deadly grip with Bulgars and Teutons Writing of this district in the Manchester Guardian, Patrick Vaux says This region is one of the most desolate summer and early autumn, certainly the most pestilential. So little known was it previous to its "cession by Bul garia to Rumania four years ago that
the majority of did not give even its name on their maps. Bounded on north and west by the Danube, and on the east by the Black Sea, the Dobruja has for cen turies been the refuge of evil-doers and the lawless, while in the last two gen
erations many a conscript has fled erations many a conscript has Rumania, Bulgaria, Russia, and Hungary to find freedom in the fastnesses of, its marshes. The Dobrudja under the Bulgars was a kind of No
Man's Land, for their authority held no farther than the gendarmes could hoot, they were very disinclined to go poling about in its extention of the law and justice. In Rumania's hands, however, the Dobrudja has undergone changes. An was in contemplation before the war, together with a sche for draining the extensive lagoons west of the St.
George's mouth of the river, east of Tshernavoda. For centuries the region has been an uncultivated desert, dotted here and there by wandering flocks and their herdsmen, whose cloaks of plaited reeds serve equally against the sun and
rain. Some Tartar families-the surviving evidences of Turkish occupationpitch their encampments in the high-
est spots, or make away in the unest spots, or make away in the unsorry change from the land of their forefathers, the Crimea, from which
they had fled at the time of Russian conquest.
Kostendji, to give the Dobrudja's seaport its old name, which stretches along a high headland running north ${ }^{2}$ open harbor, with bad anchorage. But under Rumanian auspices the place is becoming a fortified port of great importance. A few mike west of Kostendji there can be traced the east
end of "The Canal of Constantius." The triangle formed by the Darrube and the sea is so nearly complete that the distance from Kostendji to Tshernavoda, near the Danube end of the spring in eight to nine hours. By cutting this isthmus the Romanscalculated on linking the Danube with the Black Sea so that they might avoid the shoals and sandbanks wouths, save the Sulina. all the rivers' mouths, save the Sulina.
While digging the canal they heaped up the earth taken from the vast trench upon the right bank, perhaps with the intention of using it as a means of defence. And to this day the folk' The canal in their neighborhood, is still full of water, but it ultimately disappears among the marshes farther eastward
One strange feature of this melan-
choly, waterlogged region of marshes
most remarkable libraries in the world With 20,000 books on its shelves
loans more than 20,000 volumes year, a circulation of 100 per cent Its books are loaned only to ministers, to clergymen of all denominations who reside anywhere in the six New England States. It sends packages of sociology,
science, history, biography, or homiletics to any country home and any city residence in which is a minister who wants to borrow them. The cost to the minister is a stamp or a post card only
The cost to the library, which pay The cos both ways, is $\$ 1.500$ a year charges both ways, is $\begin{gathered}\text { The General Theological Library }\end{gathered}$ a unique institution. Careful inquiry by the directors has failed to disclose any similar library anywhere in the
world. Founded originally as a local world. Founded library for Boston, it began its peculiar work ten years ago. First it abolished the membership fee as prerequisite for the borrowing
books. Then it began to pay charges one way to ministers all over Ne
England, and in 1909 its borrower numbered 650 ministers a year. In that year it adopted the policy paying charges both ways, and
the last four years its borrowers have at Royal christenings, provided his the last four years its borrowers have

and knolls are the mumerous barrows or tumuli which rise from all parts of the entrenchments and camps. Many of them are so large as to give the appearance of natural hills. Some have thought that they mark the place of sepulchre of the officers and men killed barbarians of the north. Others have conjectured that they form the burialplace of the slaves once engaged in the of the smaller in this region. Several of smaller ones in the vicinity of
Kostendji on being opened were to contain sarcophagi, rings, ornaments and arms.
tion in ine Dobrudja note that tradially in the Dobrudja ascribes its generthe Russians during the war with Turkey, terminating in the war with Adrianople, 1827. The Russian army when it withdrew not only reduced the according to tradition, also let in but, Danube, flooding the more northerly and westerly parts of the Dobrudja and rendering them fit only for the vultures and wild-fowl that are still

## The Ingle Nook.

##    enclosing i. Ietter to be forwar place it In stamped envelop read (4) Allow one month in this answers to questions to appear,

Dear Ingle Nook Friends,-We are
so busy these days making arrangements so busy these days making arrangements
for the Christmas Number that I can scarcely concentrate enough to write a unusually little to say you will know the reason why.
Making arrangements for-the Christmas Number!-It hardly seems possible. It
seems such a short seems such a short time since we were
at the same work last year and how very many things have happened
since then! how very m
But there is a nip in the air this morn ing, the leaves are nearly all down, and the days are shortening fast. Soon will be upon us the long, long evenings with
firelight, and lamps, and many opport ties. With the egarden stuff all in and safely stored away for the winter, housecleaning done, preserving-time over, the cattle all in the stalls and no going to the pasture for the cows, it seems that a
rest-time has come, but the wisest that it is really a chance for doing thing that could not be thought of in the summer. A good thing to do right now therefore, is to map out some sort of
programme for the winter, a rough programme for the winter, a rough
outline of things to be accomplished. If you do this you are likely to mak some attempt to carry out your resolution; if you do not, the chances are that
the fall will drift into winter the winter into spring-and nothing done. so easy to fritter a way the "edges of time, as someone has called them, and yet if used wisely, they give the opportunity Of course, there will still
Knitting," but why not have a boy of the family, or why not have a boy of
read aloud for half an hour of the house, read aloud, for half an hour of each night?-
something about the countries of Europe something about the countries of Europe,
for instance, or bits of biography. for instance, or bits of biography.
never think of biography without connever think of biography without con-
necting with it Mrs." Gaskell's "Life of Charlotte, Bronte,", Salt's "Life of Thoreau", Stopford Brooke's biographies,
and the "Life of John Burroughs"-of which a review was given this past summer in the Home Magazine depart-
ment of our paper. All of these books
are very interesting are very interesting.
Another suggestion would be to make
knitting parties, with conversation as the background, bith conversation as reading on something educational form the pivot. If you want to know may I recommend "Canadian Poets," $o^{r}$ Toronto. The book is just coming off ing, bess, and is very attractive, contain-
portrait of each ans from the poets, a
per portrait of each, a biographical poets, a
and a shotch,

Stewart, McClelland, Goodchild

But to-day I see you in "the country" grapess and goes, dun tawny fields, purple looking out upon these things, you are Do you yourselves.
Sottish poet, born in September, 1700 ? Having read his "Seasons" one thinks of them as the year turns. May I quote a bit from "Autumn"?
"But see, the fading, many-colored woods, hade deepening over shade, the country Imbrown; a crowded umbrage, dusk and Of every line,
To sooty dark. from wan declining green Muse, These now the lonesome Low-whispering, lead into their leafAnd give the seaks,
Meantime, light-shadowing all, a sober Fleeces unbounded ether; whose least Stands treme The gentle current; while, illumined wide, And through their lucid veil his softened Shed o'er the peaceful world. Then is
the time For those whom Wisdom and whom
Nature charm To steal themselves from the degenerate And soar above this little scene of things;
To tread low-thoughted Vice their feet. To soothe the throbbing passions into And woo lone Quiet in her silent walks,
ground murder, fluttering on the ground
"The pale descending year, yet pleasing A gentler mood inspires; for now the leaf Incessant rustles from the mournful grove And slowly circles through the wavin But should a
Sob, o'er the sky the beafy Till, choked and matted with the dreary The forest-walks, at every rising gale Wide the withered waste, and whistle, Fled is the blasted verdure of the fields And, shrunk into their beds, the flowery
Their sunny robes resign. Even what reOf stronger frui
And weods, fields, fard rom the naked tree The deso ated prospect thrills the soul. .

The western suln withdraws the short nd humid day,
Ind her chill Evening, gliding o'er the sky densed progress, to the ground conThe vapours throws. Where creeping Where marshes stagnate, and where rivers Cluster the rolling fogs, and swim along The dusky mantled lawn. Meanwhile the Full-orbed, an
scattered cloud
sceang through the scattered cloud,
Shows her broad visage in the crimsoned east.
Turned to the Sun direct, her spotted
disk-Where mountains rise, umbrageous dales descend,


Mine-laying German "U" Boat Captured by the British.
International Film Service.
Thus solitary, and in pensive guise, And through the saddened grove, where scarce is heard
One dying strain, to cheer the woodman's
toil
Haply some widowed songster pours his Far, in faint warblings, through the While congregated thrushes, linnets, larks,
And each wild And each wild throat, whose artless Swelled all the music of the swarming shades,
Robbed of their tuneful souls, now shiverOn the dead tree, a dull, despondent flock, Alumes, And nought save chattering discord in their not
The not, aimed from some inhuman eye, Destroy; and harmless, unsuspecting Lay the weak tribes a miserable prey,

A smaller carth deep, as optic tube descries, A smaller earth-gives all his blaze again, Now through the passing cloud she seems. to stoop,
Wide the pal pure cerulean rides sublime , in paluge floats, and stream O'er the skied mountain to the shadowy While racks and floods reflect the quiver The whole giar whitens with a boundless Of silver radiance, trembling round the

## The lengthened night elapsed, the morn

 ing shines Serene, in all her dewy beauty bright,Unfolding fair the last Autumnal day. And now the mountain Sun dispels the fog; The rigid hoar-frost melts before his And, hung on every spray, on every blad And, hung on every spray, on every blade
Of grass, the , myriad dew-drops twinkle
round ",

A close observer of Nature wrote 1860 one who knew her and loved her in : her moods. Not a line of it but num in
felt by those of you who the country, and not who really lase bi
for the sake of maty exist in for the sake of making a living in in in is such a vast difference betwing theen and "making a living" (or more) course, the living must be made, but, after all, the real art should be learning how
to live, shouldn't it? looks , shouldn't it? I I'm afraid all this of playing on words.--But no, I havick aspired to being a Shakespeare yet!!! Mont most humble apologies to his ghost and gladness as we muddle too much joy our best and hoping for better. doing happy helps us to work better. Being the helps to being happy whature is onesn't of the helps to being happy, when one lives and works so close to her heart as rural.
dwellers must live.

## Hallowe'en.

Dear Junia,-Another inquirer coming ou tell me what is the origin Can Hallowe'en, and some interesting facts egarding it, also Hallowe'en games, suggestions for decorations, all to be Eve. Thanking you in ad All Hallow's Hallowe'en or All Wallow's Wirie. the name given to the 31st of October Day it Hallowmas or All Saints' festival held about the same of $a_{0}$ Pagan the Druids held the same time, when celebration and lighted fires in honor of the Sun-god who had made their harvest possible. The Druids also bedeath, called together the wiman, lord of for the past year had been condemned to inhabit the bodies of animals. It is easy to see how this developed into the and early belief that during bis-fires all ghosts and witches were liberated and likely to prowl about. From the old Roman festival in honor of Pomona, held about the first of November, in which nuts and apples played a prominent and ducking for apples, still kept up at Hallowe'en hilarities.
Hallowe'en decorations may be very
similar to those for Thanksgiving, with Similar to those for Thanksgiving, with
sheaves of grain, corn-ears with the husks drawn back, grapes and rowan berries, but to give- the true Hallowe'en there apples, witches, black paper cats, pumpkins, and Jack o'lanterns in plenty made with the pumpkins. Usually during
the first part of a Hallowe'en festival the lighting is carried out almost wholly with these Jack o'lanterns, and as ghostly an appearance as possible is given to the ooms. I cannot suggest anything better than a masquerade as a feature of the evening, everyone dressing in costume ing the upper part of the face until the time for serving luncheon. Guessing who the characters are will take up a goodly share of the time, while a fortune-
teller's booth or two, and the reading aloud of a ghost-story may fill in the rest.
The reader should be someone who has a rong musical voice, and may read in a reen light while low weird music is played, so low that it sounds like a farway refrain.
If it is desire restival, here are a few hints. Booths may be arranged about the hall in which the "social" is held -it is presumed it is to be a money-making affair. Booth 1, -At a grape booth a girl, on paying 5 the open mouth of her attendant cavalier. The distance is 10 feet, and if she "holes" 15 out of 20 throws she is awarded a bunch of grapes for herself. Booth 2-
This booth has a row of dyed red, and stuffed, above it, with the sign "Palms 'Read." For 5 cents one's fortune is told by a witch. Booth 3Here an Eastern fortune-teller serves tea at 5 cents a cup and reads a fortune
afterwards from the leaves. Booth 4"Witches Brew" is the sign over this alcove, and three witches dispense excellent soup or lemonade from pots for the price of 5 cents per brew. The "fire" may be made with a light under red paper.
Booth 6 -Here gingerbread and nut cakes made in the form of witches cakes made in the form of witches,
Jack o'lanterns and cats are sold, also

| Octoriz 19, 1916 | THE FARMER'S | ADVOCATE. |
| :---: | :---: | :---: |
|  |  | Send for our <br> New Cook Book <br> Mail us a red ball trade-mark, cut from a bag or carton of Lantic Sugar, and we will send you a book of particularly good recipes for cakes, candies, preserves and other delicious sweets. <br> Lantic Sugar <br> is called "The All-Purpose Sugar," because the extra "FINE" granulation makes it equally suitable for the table, for cooking and for preserving. <br> Packed in 100-lb bags <br> Atlantic Sugar Refineries, Ltdo, Power Building, Montreal, Canada |
| Now, after such a social as this your not be likely to go home company will not be likely to go home with much money, but there will have been a "good time" and, no doubt, the money will go to the Red Cross or the money will go the ther some other <br> Home made Cheese. <br> Mrs. R. D., Huron Co., would like to know a sure method for making home- made cheese. I have several methods in my books here, but would prefer to hear cheese herself. Will someone kindly <br> Seasonable Cookery. <br> Pepper Relish.-Cut 6 red and 6 green peppers (the large kind) in halves lengthwise and remove seeds and stem ends. Add 6 peeled onions and put all through a meat chopper. Put in a saucepan, cover with boiling water and let stand 85 minutes. Drain and add 1 cup sugar, 2 tablespoons salt, $11 / 2$ cups vinegar. minutes. Store in glass jars. |  |  |
| Baked Rarebit.-Cut 1 lb. soft, mild cheese in thin slices. Add 2 tablespoons crumbs, and season with salt and pepper or paprika. Sprinkle a layer of the crumbs in a buttered bakingdish, then cover with one-third of the cheese, then put on more crumbs and continue with alternate layers until the dish is full, crumbs on top. Beat 3 eggs slightly mixture. Bake in a moderate oven 25 minutes and serve at once. | fuls; 1 standard cupful equals 1 half pint; 1 pint equals 2 cupfuls; 4 cupfuls equals 1 quart. <br> Vegetables in Winter. <br> Be sure that winter vegetables are ept in a cool, dry place. They should ke dried before storing. Carrots, beets and try earth or sand. Often vegetables shrink because they have not been perfectly ripe when gathered. If quite forms a comparatively impervious covering, through which but little moisture can escape. If not well ripened the | one big difference between the Canadian- |
|  |  | made Phonola and the high-type imported Phono- graph is the price ; the Phonola costs considerably less. In other things: in the sweetness and volume of its sound ; in the natural and lifelike reproducquality of workmanship, in general appearance and in the finish of the cabinet, the Phonola more only holds its own. Critical comparison will not only confirm what we say here, but it will also reveal certain desirable features. of the Phonola which are not to be found in any other make at |
|  | Coby them off with a cloth. Cabbages may be placed in barrels, roots uppermost. be neither trimmed nor Calery should be netitered timmen lor deen bober siled with dry earth dido not let the earth get into the hearts.) Tomatoes may be kept until January if wiped dry and placed on straw-covered <br>  to turn. As they ripen take out and used If any should beome solt or deaced remove them at once (Decaying fruit or vegetales will infect those in contact with them. | any price. In addition you save anywhere from ten to fifteen dollars because you pay no duty. <br> Model Duke $\$ 90$ <br> Plays all disc records. Send for free illustrated catalogye, and receive also a copy of our new catalogue of records. <br>  |
| Graham Pudding.-One cup sweet aisins, 2 cup molasses, 1 cup stoned tablespoon water, 1 teaspoon cinnamon $1 / 4$ teaspoon cloves, 2 cups Graham flour Steam 3 hours. All are level. |  | The Pollock Manufacturing Co., Ltd., Kitchener, Ontario |

## TheBeaverGircle

## Why Not?

Why not call a boot a b
surely has a sole:
Or say a bell is clever if it rings because
it's Whit's tolied,
Why not say has got a peak,
Or that some folk's impudence is due
A potato can be dressed if it has its
A potato can be dind
And a cheese be called a giant if particularly strong,
A house cannot be perfect if it should While the sea a flaw, frel quite proud
to see a swell upon the shore.

Report on trees as wealthy firms if Or call they have many branches, if they have leaves, If a glass has got a brim, it's a hat you And an elephant a traveller if a trunk
it should possess. should possess.
You are surely an inventor if you place And a lawyer is a a tailor for he's always making suits,
If your door is partly
If your door is partly open it's a jar
you mấ depend. And this, maem dis a smoked cigair for MCK. Southwood

Little Bits of Fun.
A Long, Wait.-" "Johnny, I don't
believe vou've studied your geography." believe you've studied your geography."
"No mum; I heard pa say the map, of the wht IId wait a few years dill things
thot settled."-Rrooklyn Life. got settled."—Brooklyn Life.

Prepared for His Loss.- Fair Visitor "But how lucky for you that you can write with your left hand.' Jock:-"Ay, Miss, I've ma faither tae
thank. When I was a wee lad he thank. Noo, Jock, you , jist learn the
says
cut yer finger nails. wi' yer left. hand, an' then it disna matter, sae much
If ye lose yer richt ane."




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## Current Events

Oxford County (Ont.) Council has decided to give
British Red Cross.
The Trades and Labor Council of Toronto have decided to ask Mayo Church toc
against the high cost of living.
During the current financial year the Durimg the of Parliament has
B, titish House
$61,350,000,000$.

Professor Lambros has formed a Greek Cabinet whose eprrso."
Germany is now making preparations to examine for sery
to 63 years of age.
The two chief features of war news during the week have been the advanc of the Italians and the roangy of the Roumanian army in Transyv Cadorna's troops, in their drive Gen. Cadorneste, the chief commercial port of the Austrians on the Adriatic have been eminently successful, havin taken within two mon Transylvania, on The ther hand, have been steadily pushed back by von Falkenhayn, holding their own only at a few points where cossack have come to their assistance. alic king of Roumania has made a public appeat the Teutons.from overrunning his country as Serbia was overrun, and in response Russian troops are hurrying to the rescue. ost part, gains are continuous, and most part, gains are continuous, and 100 shells to every one thrown by the Germans. Owing to some mistake, however, on Sunday, Oct. 8th, four Canadian \Battalions were ordered to nake a charge near courcelete ove tanglements by artillery, and as a result suffered terribly, one Battalion from Alberta being almost cut to pieces. At present the British are making a direct drive upon Bapaume, which may
In the Balkans the British continue oo advance along the Struma, and the Serbs along the Cerna. A revolutionary army, followers of M. .enizelos, is collecting at Salonika, where the ex-Premier
now is. In the meantime the Commander of the Anglo-French fleet in the Mediterranean has presented an ultinatum to the Greek Government demanding that Greece hand over to the
Allies the entire Greek fleet with the exception of one cruiser and two battleships. This demánd has been made o ensure the safety of the Allies in eastern

The Wife's Commandments.
Thou shalt love thy husband faith
furly shalt familiarize thyself with all the arts of housewifery so thou canst organize thy household as efficiently as Standardize thy home; imitating not the flaunting propensities of the , ex travagant neighbor on thy right no the penuriousness of the neighbor
on thy left, but seek the satisfaction of one who knoweth her income and bringeth expenditures within the bounDiscuss not thy husband's faults and foibles with friend nor neighbor; loyalty is always admirable.
Thou shalt not nag. Use tact; for Thou shalt not nag. Use tact; for happy victories of wifehood are gained
Thou shalt not whine. It is a twoedged sword in the domestic circle, often severing the marriage tie.
Cultivate good humor, for, verily, a cheerful helpmad himor, for, verily, than much gold. neatness is lrig looking. Post-nuptial trimness. Oust suspicion as thou wouldst a incentive for a man to keep There is les who is always suspected of wrong Let the progressive spirit animate

## Is a bride's perpetual dower, If she shows her perspicacity By the use of Purity Flour. <br> Mare Bread and Better Bread

thee, leaving no way barred toward self-improvement. For when beauty spirit shall remain unfailing magnets to a worthy husband's love. E. R. W.

All Because of Mollie.
by agnes hunt.
"Whoa, Mollie!" But the more whoaed" and tugged at the reins, Past the carriages, one by one, we flew, the wheels sometimes dangerously close and sometimes just grazing the deep ditch. The people sat up and looked at me
as if I had gone crazy. I could feel my cheeks hot, and knew they were glowing red; my hair, of primness-was coming down in masse round my neck and ears. I feared my hat would go next, Mollie,-controlling her was beyond me. Oh, if the earth would only open and swallow me up out of sight!- but I' and that might easily happen. I was gaining on the pall-bearers and the hearse with its nodding black plumes. We sped past them, Mollie going even faster! gudimpsed old Mr
McEwen as he suddenly sat straight up in his seat staring at me through his blue goggles, and for that brie second he even forgot occur before. Always constantly, whenever or wherever met him his little grey-whiskered chi reminded me of perpetual motion. entering town as I overtook the pall bearers and as I dashed past our minister Dr. Brown, I caught a look,-well could not call it pleasant by any means you shall smart for this. I'll report you to the Doctor. If Daddy had only been with me this awful thing would not have seemed so scandalous. "The Doctor must hâve a
have said, "The hurry call somewhere!" he had insisted that I must go. How was I to explain whirling out of the line and racing pator only to stop when the last carriage was left well behind? -for that was just what Mollie did! No sooner had I passed @r. Brow than she stopped of her ow procession Then the humor of the situation dawned upon me and I shook with laughter though I tried in vain to keep my "risibilities" down. Jack Kennedy's horse
So this was Jack The Jack Kennedy who had been expelled from college, who had been fined for fast driving!
Well, if some power didn't come to my aid I might also be fined,-though certainly innocent of al evil young man he ran into the street, vaulted into the

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| :---: |
|  |  |

$\left\lvert\, \begin{aligned} & \text { arriage and reined the horse to one } \\ & \text { side } \\ & \text { restlang give }\end{aligned}\right.$

 this simply awfull I dotit know what
ails the beast, but she seems bound th
 I couldn't stop her.," " $A$ la Kenned Kin, I rather think," answered, and then blushed at my own
impudence.
He nughed, though he also flushed. "Well you mustn't dive a ol Kemned lon't mind, and see that Mollie behaves., He sackened the reins and when an opening came wheeled into line and bya entering the church-yard a with Jack
with Kennedy the scape-grace.
John Kennedy, the fatter of Jack,
had been principal of our High School ever since 1 could remember. He was
a tall dark man very ster and We were alil veryer itern and of quiet,
His wife had taught modern lan fuages years before thaught modern languages
highly highly educated, studying in Germany fluently. She was fair and petite and beloved by all the students who met her. They had three boys, Jack and the twins
Hugh and Hugo. Jack and I had gone through both public and high school -oftener foupht in fact. He was fair
and I was decidedly not, and what angered and I was decidedly not, and what angered
me -most," was, he had always called me
" "gypsy." After I had seen several swarthy gypsy lasses peddling their
lace and wares I had shed angry tears and stamped my foot in a rage at him.
Then he had ended by snatching a kis and running away bughing, Jack and Harry Brown, the minister's son-had
matriculated at the same time and had entered the university together, both
to study medicine. Harry had always been a model boy-Jack, on the contrary,
anything but model, though I never anything but model, though I never
knew of his doing a mean act.
When been played upon one of the faculty it once suspected, termed guilty through No one seemed at all shocked, but he "ne'er-do-weel." His father and a his mortification plainly, for Jack was his son, but his mother made no sign and was seemingly as proud as eve
of her handsome big son. zed how handsome until that day
of old Mr. Gibb's funeral. We had seen very little of each othe entered college and I simply remained at home taking up music, reading with ather, and driving with him as often as bunt caroline never cared to have me
Ouring her when she was busy. ather bought Mollie I was happy indeed.
She would take nobody's dust even at a funeral), and though gentle
and kind could go like the wind

## We lived on the outskirts of the town,

 o church. Sunday evening I went asusual, though neither father nor Caroline could go. It had been cloudy,
still I was surprised on leaving the still was surprised on lo find it raining.
The long walk glistened wet in the flare on the lamps. I hesitated for a second
and just i stepped outside, a great
imbrella was held over my head and Jack umbrella was held over my head and Jack
Kennedy's voice said "May I have the
pleasure Miss Kate of keeping the rain Somehow my heart beat fast and I
felt the blood rushing into my cheeks
again and was dugry at myself for it. escorted home. In fact Harry Brown
always made that his especial business sure of himself, So sure I would not
object that sometimes I simply ached o just run away and leave him. There
was a certain satisfaction though in
naving such a popular escort was too much a popular escort, and I
of down-up", to think
confused to remember what we talked about, on the way home At the gate
he paused and his voice was low and he paused and his voice was low and turn me kdown. I haven't advertised myself very much since coming home, not guilty you to can't prove it, and I would simply throw the blame on another
fellow. I can't do that, I'd feel myself fellow. I can't do that, I'd feel myself
"What must he be then?" I asked hotly.
until I know turn anyone down Jack,
seeing slipped up to my room without seer I either father or Aunt Caroline, then. I felt that I faced right about for him. Thed Jack-now I was sorry came again and the next until, as fathe laughingly said, he was. "getting the After a long talk with father I was sure it was all about that college scrape studies and before a month had passed he had supplanted me as father's helper. Many an evening we spent practising popular book or play. He told me all about Mollie and her love for racing He felt sure she was well-bred and o her from the at that. He had bought -had found her vicious, but now because

## gentle Her

## She whinnied when he came near and

 nosed in his pockets for hidden sweets then caressed his face and hands, with ther velvety muzzle as if showing her -"And now another 'gypsy' has her ," I retorted sauciland my eyes fell and gave me a look, and my eyes fell and my cheeks grew hot,
for I remembered and he knew I did. "Yes-my gypsy has her now,"-but of me just then! was furious with myself. If Jack Kennedy ever prestumed to overstep
the "friendship" line, I would have

## Christmas holidays came bringing Harry

 more pompous and sure of himsel than ever and I surely gave him a "jolt"on our first meeting. He made some sneering remark about Jack, and I he asked are you so sure of him Kate? "I never yet knew him to tell a de a scrape he was in, and neither did you "Has he ever blamed anyone else?"
he asked in a queer tone

## "He cannot honorably do that, he says," I replied.

 "Very considerate of him I'm sure,"and Harry changed the subject. From that time I almost disliked
Harry Brown and needless to say he

## When not busy at home I was driving Mollie and was no longer afraid



 ran in a wonderfully happened. Things we were rudely jolted out of it by the

## at. each others' throats,--Belgium, whing

 at. each others' throats, -Belgium, whichhad borne the brunt of the nslaught was
smoling smoking and wasted, bld d-soaked, but
still undaunted. The call came to our little town and the first to

## table and half stunned I left the room

 should he be taken from far-away Canadafor a war that was none of was going to certain death I I knew! -fought with my love, my weakness, to go;-mine, to let him go without
flinching.
that bit of news had withou
my maidenly
hide the secree
Then sacret. . ${ }^{\text {modesty }}$ and pride th Trve ${ }^{\text {ITM }}$
it's
wh
be
He it's only to foll fighing worth while whut oh Katie, girl, I'd sooner country be far easilion of Germans,-it lace He caught sight of leaving you dear, sown my face and the tears running " roughly that it hurt me me to himin Now I can face any danger really do carel "You've made life good to he exulted all, straight only wish we were goin straight to the trenches at once, "
stooped and kissed me
for Canadian contingent had lef
for overseas. Bravely we saw our was greater our chem. The khaki-clad group, left amid "Tipperary" all so strangely singing -to cover the sore hearts. Our goodThe been simply a hand-clasp. came, sometimes bringing sorrow, somecasualty list always we scanned the worst. I received but two letters - the precious than gold to me-then the At last came the Kennedy wounded and missing-Harry on receiving a cablegram left immediately or overseas, but for us at home it was we lave wing and working. Finally mother and I, and believed him dead. and the sun lost its light freary blank would honor the man, however, who had been scorned by all, and even father nodded a grave approval when I put
a band of royal purple upon my arm.

Easter dawned beautifully cleat. stranger was to fill Dr. Brown's pulpit
as no word had been received from him as no word had been received from him me to attend the morning service, and in his accustomed parise to see Dr. Brown and white and I think every was bent touched, for he was old and Harry was his only child
Easter sermon was short but impressive meaning for me. At the took on a new service Dr. Brown came forward. He had just reached home from overseas he was proud that son he was proud to say had given his life sacrifice. At his request he had message to make public; a message to right one who had been deeply wronged not exonerate his own son. He could all in pity to forgive him, since he had done all he could to expiate his sin He old how Jack Kexpiate his sin. expel ed from college and had been hranded guilty by all when the guilt Jack to speak out his suspicions, his than the word of a wild count more young fellow, so Harry harum-scarum
 Ore dark night both formed part of a reconnoitering party sent out to find if any surprises were being planned by the enemy. They had crept close to the necessary information, but on returning some one had blundered, the enemy was aroused, great search-lights switched-on, and rifle and machine-gun fire opened on the party. Flinging themselves on every possible cover, a part had reached among the number missing. At dawn fire and succeeded in bringing him back himself being badly loss of blood,--fie of rescuing Harry. Not only had he distinguished himself by saving Harry's life, but by his knowledge of German, great aid to the officers, through scraps whispered in information he had heard Disguised in the enemy's trenches. penetrated several trenches and learned

Octobse 19,
Mid wade a once as a spy. bear, no more, no one roticing all in the old man -what more cou longing to have of him! Father would or I noticed As I reached hon 1 felt, and alm toward loved him to and as I enter her neck, his le dad figure so lik strong arm. J well, but oh, so after the first th me how he had es and had finally Brown who had
Then we talked ing only to Jac Suddenly we throats. came louder an
men were coming men were comin At last we caug the mat"'He's
answer-"Hee I turee cheers to fle the arm. Father ously but tend upon the shou aloft through t see him, the ret "Sunday" behav Jack told me day, as he strok a year has made
all I've won the "I "hid my fac laughingly said

## Out

muttered Joe L morning as he
"The strain of
unbearable. the whip, which than to make
still more restl do; I'll see T farm, and I And having
through his fashion.
At dinner tir
to leave the fa
in these words.
in these words:
nore of me,
Why Joe
and Mary lo
where she was
oven, and bur
sequence. "Wur
"Wel.,
slow way, "yo
said about Bil
at the Klondy
like him can
tell you,"
tell you," wi
the table for
I will."
Mary Lewi
easily excited,
which
which she regar
She sucked her
for a moment
for a moment,
table, served he
piece and took
after which she
strong tea

पix mate a prisoner at last. The ponce os side spy.
so mas open and I could bear, no more, so I slipped quietly out no one noticing me, so . Jack had been indicated-had proven himself a hero -what more could I ask? But oh-the longing to have seen him if only just of him!
Father would tell me the rest quietly at home, would tell his parents too for I noticed they were not present. As I reached home, I could not go indoors I felt, and amost instinct old Mollie Slie loved him too! The door was open and as I entered I caught my breat sharply. There with his right arm ove her neck, his like-Then he turned, and clad figure I ran straight into his on strong arm. Jack alive and looking well, but. oh, so badly crippled!
I accepted the miracle quite calmly after the first thrilling surprise. Ge told how he had been nursed to convalescence and had finally come home with Dr Brown who had been like a father to him Then we talked of other things, interest
ing only to Jack and me. ing only to Jack and me.
the street came the shouts of many throats. The noise and hubbub became louder and nearer. A crowd of men were coming, cheering as they came, the matter with Kennedy!', and the answer-"He's all right!" Then again -"Three cheers for our hero Kennedy! turned to flee but Jack held me by from the garden; Jack was unceremoniously but tenderly, placed in it, raised upon the shoulders of his old-time comrades and school-fellows and borne see him, the returned hero!
every citizen excused the was never before known in our town Jack told me all about it later in the day, as he stroked Mollie's silken neck a year has made for me? And change all I've won the dearest girl in the whole I hid my face against Mollie, and laughingly said, "Yes Jack, and all
because of dear old Mollie",

Out of the Soil.

## ay f. Marlett bellsmit

I can't stand this much longer, morring as he hitched the horses to the seder and drove out of the barn-yard.
"The strain of this kind of life is becoming unbearable. Gee there you Mee!? and he gave the bay filly a vicicus cut with
the whip which served no better purpose the whip, which served no better purpose
than to make the nervous creature than to to make the .nervous creature
still more
restless. do; Mil see Tom and get him to hurr
up his Sis'
sedding and look after the farm, and 111 go to the Klondyke. And having made up his mind he went
through his $m o r n i n g ' s$ work in a stolid work in a stor
 in these words:
more tuess the old place won't see much
mos., "Why Joe, what do you mean?" and Mary looked up in surprise from
where she was taking a pie out of the oven, and burat her fingers in con-
sequence sequunce,", drawled her brother in his
"Well," slow way, "youl know what the paper
said about Billings making a fortun at the Klondyke. I've been thinking about it, and I don't see why if if fellow
like him
him tell your", with a slap. of the hand on I
I will
Mary
Lewis was not a carl to
 She sucked terrded as serious as this for a moment, then put the pie on the taber, served her brother to a generous after which took a smaller piece herself strong tea and finally asked in a quiet
tone. tone:
money or the outht as well as to get
there; how do you propose to raise ite"t "By a second mortgage," promptly Mary shook her head, and her brother went on in a tone which indicated that
he did not like ne did not like opposition, "I don't
know why not; the old farm is worth The sister Said nothing thor sounder jister sade nothing, though with sounder yudgent than her brother
she thought he would find it rather hard to persuade any one to lend him money
with the land in its present run down with the land in its present run down
condition, especially as it condition, especially as it was already Therefore the two finished their meal in silence. It was when Mary had
begun to clear away the dishes that begun to clear away the dishes that she ventured another question:
Joe? ${ }^{\text {" }}$ She had a shrewd idea of what the answer would be; and the thought was not at all unpleasant to her. Joe had been the obstacle in the way of her
marriage, but she was not selfish marriage, but she was not selfish enough "That's plain sailing, Sis.; you and Tom have been engaged for nearly two years and I don't think he'll object t coming here to live. This is his night look after things here while I am gone." Mary watched her brother through the kitchen window with tear-dimme father had died when they were young together and had/managed the farm wit good judgment and success until she was taken three years before, since
when, Joe, always discontented in dis position and a little inclined to be lazy had let the land run to seed; so that were not all that Mary could do, they part of the principal to pay had great difficulty in meeting the interest. The brightest. and to have Joe propose to raise a second mortgage and go away to the gold-mines at the present juncture filled her with the deepest concern. Tom Plainman called that evening first sound of rattling wheels; he was anxious to have a word with the visitor alone before he entered the house. as they unhitched 10 m s high-stepping black gelding, which made Mary the and the countryside, Lewis told his plan. Plainman was as quick as Mary and not being as unselfish as she, jumped at the chance. However, when Joe proposed that Tom become manager "II am afraid, Joe, that you will not be able to raise the money," he suggested; "but what is the matter with
selling the farm to me? I have a little money saved and I'll give you a thousand
dollars cash and assume the mortgage what do you say?
Joe was not the man to drive a bargain, and then he knew in his heart that hi prospective brother-in-law's offer was a
very generous one; so he closed with the deal on the spot. She had been Mary was forestalled. She had been thinking all afternoon of how she would
divert Joe from his foolish purpose divert Joe from his foolish purpose,
but now she coald only yield to the inevitable. The wedding was fixed determined to leave as soon as seed ing was done. They were busy weeks
for Mary. his pretty sister to the Methodist church in Cranberry with the buggy varnished and the team of
groomed for the occasion
It was the most popular wedding held in the district in a long time; for both of the young people were highly thought
of. Mary was liked for selfish nature and Tom was respected because of what he had done in a few timers like the day before that he had arrived from England, green of the
green, to whom to try and teach farming was sheer foolishness. Yet now he was recognised as one ord, with money enough saved to buy a farm for himself. At the celebration which followed, the mimister said that not since he had come so much pleasure. At which one of the young ladies turned

## Are your hens wwinter layers?



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## POULTRY ongis on ol

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anteed Eay ren
clened. Skim wning, easily


 THE VETERINARIAN LINEED OII GRIE

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Write today tor lowes price
has been made hat often that remark And at the same moment a broad of the minister's wife as if she had heard something very like it before.
Soon after the wedding Joe took his departure and for three years Cranberry saw nothing and heard little of him. During these years Plainman, a very repaired the barn and stables which were sadly in need of it; built shelters
for the implements which Joe had allowed to remain in the open, summer and winter
put the fence in good shape; and important of all, made very real progress and bringing the land back to the poin where it would produce fairly good crops. As a reward for his hard toi payment ong able to make a substantial In all of which, it need scarcely be said, Tom was enthusiasticalty aided by his wife, whose butter was known to every
housewife in Cranberry for its quality.

Again it was a pleasant spring ing and seeding was in progress. Tom
was in a newly harrowed field putting weed into the soil with as much care and method as a banker shows in the management of his business. A healthy litter
of pigs were. wallowing contentedly in a mudhole in the corner of the barntoddling after the chickens with a stick and a good looking young woman
smiled at her vigorous baby. And, as the story-book would say, the golden
sun shed his mellow light over the happy


Along the dusty road came a tired
and foot-sore traveler. He dragged his steps as one who had come from far.
stikempt, unshaven and ragged, he was apparently the first tramp of the season, the advance guard, soon to be him something of the sort; for having approached near the front gate in pursuit
of the chickens, he almost ran into the tranger who was turning in from the The child took one look at the
awful giant before him and turned and fled towards the house screaming at
the full power of his lungs. His cries Suickly brought his mother to the rescue her baby into her arms, for she snatched around to see if her husband was in
sight, and made for the shelter of the
But the supposed tramp followed he road, and brought her to a stand-
till near the doorsteps by saying: still near the doorsteps by saying:
Mary turned and took a more particular slip from her arms. "Joe," she said. "an it be you?
"Yes, Mary, and I guess I do look
pretty tough. And I'm desperately
Joe washed while Mary got him some His sister had the tact not to question him about his experience until hunger
was appeased. Then he told his story was appeased. Then he told his story. e got to Dawson City and paid for an new little more about prospecting than simself. They worked hard but made
carcely enough to live on for some hat they thought would be a rich
trike and accumulated a bag of nuggets, Bittle they had made found its way into
the saloon and the dance-hall; for Joe In telling of it he passed very lightly
over this part. After that he had long spell of sickness; and when he was had given up and gone home. He
 hoard. This time te was robther whtile
in an intorixatedstate in the back room
of a saloon. When he came to kions.

## gave out fifty miles

Jop was pretty well humiliated, but there was enough of the old Joe left the make him skim aver put most of the blame for his misfortunes on others.
When Plainman came in for dinner $h$ received his brother-in-law kindly and afterwards listened to a repetition of the
story, which Joe ended with these words story, which Joe ended with these words
"I have had enough of the Klondyk to last me a good long time. and you don't catch me going there any
"I think you are wise in that resolution, Joe, said Tom, although for the right place, I suppose. But as for me, I
intend to stick to the farm and I believe intend to stick to the farm and I believe
there is more to be got out of the soil of old Manitoba than in half a dozen Klondykes." Then with a glance at and placed his thand on Joe's shoulder. "Ioe, $I^{\prime} m$ glad you have come back. and you may consider this as home until such time as you have a home of your own. I owe you something, Joe, for I got this farm pretty cheap, it is worth more than I thought it was. So now
I want to make you this offer; will you stay right here and help Mary and me his the best farm in this part

Mary watched her husband and listened eyes. other's hand in his, and while he shook
"By George, Tom, you're a brick."

## The British Red Croes

The work of the British Red Cross a great work in which we all may share,
must be carried on, and the prompt and must be carried on, and the prompt and
efficient aid for which the British Red Cross is noted must be maintained. is done, and must continue to be done, for wounded and sick who suffer in their The British Red Cross has provided transportation of the sick and wounded Transportation of the sick and wounded. Army in France, and others in almost
every region of the war. For the Mesopotamia expedition a special fleet of motor ambulance boats has been supplied
for work on the Tigris. In Great Britain some 1,270 auxiliary
home hospitals, with 41,000 been supervised, equipped and provided with nursing staff by the Red Cross. In
addition there are numbers of large hos addition there are numbers of large hos-
pitals in France and Egypt. So much of the work of the British Red Cross is done by volunteer workers, that for the first year, excluding hospitals, the
total home administration and management expenses, including the unpacking, amounted to only two and one-quarter The British Red Cross "War Library" "sub-branches" in the thousands of hospitals, rest camps, hospital trains and
ships ministering to the needs of the British forces. to our splendid troops are the men and women who supply the money to carry
on this work. ". Such is the tribute of the
British Red Cross Society in the last issue of "Our Work." The people of the
Province of Ontario gave $\$ 1,574,000$ last year. Let the record be broken this
"While riding in an auto with Mr .
Rockefeller recently," said Rev. Dr Rockefeller recently,", said Rev. "Dr
Bustard, Mr. Rockefeller's pastor, "we
were about to pass a little barefoot girl, when Mr. Rockefeller invited her to
step on the running board. The little step on the running board. The little roads, and asked, "How far are you go-
ing?" "Oh, we're going to heaven," Mr. Rockefeller answered. The little girl
was surprised, as many people are when was surprised, as many people are when
he says that. Then he asked, "Don't
you think we'll get there?" "No," said the little girl. "Why not?" persisted Mr Rockefeller. "I
enough gasoline," she said." you've got
Cleveland


Oat Sheaves for Feeding Steers.
During the winter of 1915-16 an ex periment was carried on at the Brandon Experimental Farm, with two lots of steers, 10 insabity of feeding oat sheaves and thus save the labor of threshing, grinding, etc. This may be of interest cially at this season of the year when the threshing is not all completed
Other feeds were combined with the Other feeds were fed against cut straw oot sheaves chop. Briefly, the steers fed on oat sheaves returned an average profit of \$17.46, while whose a profit of straw and chop showed a pront
$\$ 16.44$ each. The two systems of feedsing and the itemized results may be登g and in the following paragraphs. The cattle were obtained during the month of November at the price was Stock Yards. The purchase price was
$\$ 600$ per cwt, but the transportation, 36.00
feed consumed, shrinkage, etc., made the cost $\$ 6.57$. per ewt. at the beginning of the experiment.
The steers were divided into two uniform principal part of the ration, while the other lot was fed as nearly as possible the same amount of feed in the form of cut straw and oat chop. In adaition to and corn silage and got bart of the time roots instead of silage. In the spring, after the corn and roots were finished, both lots got a little bran.f The amounts of feed dispensed to the cattle varied according to the
appetite of the steers. The grain ration was gradually increased, starting with 2 pounds of grain per head for
those on cut feed it was increased to those on cut feed it was increased to
14 pounds at the finish, in the spring. The lot on oat sheaves got no adthat barley chop was added and gradually increased. The following table shows
the results of the experiment in tabular the re
Lot 1-Cut Straw and Oat Chop. Number of steers...a)

First weight (total) DecemFinished weight, (total) May 1,1916 May Total gain in 149 days.... Aain per steer. .i.in per steer.... | 1.59 |
| :--- |
| 6.57 |


Total cost..... sale at 88.60813 .20

| Receipts from sale at $\$ 8.60$ |
| :--- |
| per cut., $5 \%$ shrinkage...... 977.56 |

Profit and labor income....... 16.44
weight...
The feed used by lot 1 amounted
5,780 lbs. oats at 34 cents per bushel to 5,780 lbs. oats at 34 cents per bushel
588 lbs. barley at 40 cents per bushel 390 lbs. bran at $\$ 16.00$ per ion. $149 \times 0$ lbs. straw at $\$ 2.00$ per ton; $8,400 \mathrm{lbs}$. roots at $\$ 3.00$ per ton; 33,990 lbs. cori silage at $\$ 3.00$ per ton.
Lot 2 -Unthreshed Oat Sheaves. Number of steers.
 Finished weight (total) May
Total gain in 149 days.
Average daily gain per stee
Average daily gain per steer
Initial cost of steers' at $\$ \$ .57$
per cwt............................ 636.17
Cost of feed.
Total cost remon sale at $\$ 8.60$
per cwt., $5 \%$ shrinkage...
Profit and labor inco
. 174.64
steer labor income per 17.46
Average cowt of 100 lbs . of
gain in weight
gain in weight..
The feed in this case amounted 2,171 oat sheaves at 4 cents each 4,620 lbs. barley at 40 cents per bushel;
390 lbs.
bran at $\$ 16$ per ton: 8,400 lbs. roots at $\$ 3$ per ton, and 33,999 lbs. corn silage at $\$ 3$ per ton.
It will be observed that the oat the oat straw and oat chop than while it would not be wise to state that threshing and grinding are a waste of

Clusion, that feedcrs are safe in starting off a bunch of feeding steers with oat
sheaves. The Superintendent of the Station writes, that steers will make
a good start in the early winter with a good start in the early winter with
them as the only feed.
However additional grain should be given in the
latter part of the feeding period or latter part of the feeding period, or
else the sheaves fed in sufficient quantity else the sheaves fed in sufficient quantity
that the cattle may waste some of the that the cattle may waste some of the
straw and get enough grain to make a straw and get enc

## Remedies for Ivy

 Poisoning.Direct contact with the poison ivy plant is not always necessary to produce poisoning, as the poison may be
transferred from clothing, gloves, and implements, also from towels used by those who have been in contact with the plant. When there is reason to believe that there has been exposure to the poison, repeated washing with warm water and strongly alkaline soap as soon as possible is advisable.
There is no one remedy that will cure all cases of ivy poisoning, and in severe cases a physician should be consulted. Specialists of the department have found the following methods and formulas useful in many cases. At the outset, removal of the cause of the irritation mảy be accorimplíshed by cleaning the inflamed surface repeatedly with of sugar of lead in alcohol, using a fresh bit of lint or absorbent cotton each time, to avoid spreading the irritant. The sugar of lead cannot be used over extensive areas, because of risk of lead poisoning. Covering the
inflamed parts with lint or absorbent cotton kept constantly moist with lime water or with a saturated solution of bicarbonate of soda will afford relief. When this cannot be used, a simple
ointment, such as zinc oxide ointment, is recommended. A solution containing 1 ounce of fluid extract of grindelia to 1 pint of water applied on cloths and allowed to evaporate may afford relief. Black wash, prepared by adding water, may be applied two or three times a day, allowed to dry, and followed with zinc-oxide ointment. This treatment must be used with caution in extensive cases because of the possibility flammation of ivy poisoning is some times followed by eczema and secondary infections of the skin, which, in mild cases, will yield readily to treatment
with bland antiseptic with bland antiseptic onded for ivy poisoning and often especially helpful at this stage is the following.
Carbolic acid, 2 grams; resorcin, 2 grams: bismuth subgallate, 4 grams; equal parts wat This solution may be dabbed on the
affected parts several times a day. affected parts several times a day.

## Gossip.

Last Call for the O. A. C. Sale. This is the last call for the big sale of pure-bred stock to College, Guelph, Thursday, October 26. Shorthorns, Holsteins, Ayrshires, Yorkshire and Berkshire breeding sows and young pigs and choice representatives of sheep will
the best-known breeds of be sold at the buyers' own prices. be sis a rare opportunity. Make the best of it by reading the advertisement in another column and a description
of the stock in last week's issue, and of then go to the sale prepared to bid then go It is not too late yet to get a catalogue from

## During the cross-examination,

 would-be benedict was asked "What salary do, you make?" $\$ 1,000$ a year," with all due im" $\$ 1,000$ a year," with all due im in hany trathiefs," the father replied. "I'll wait," was the answer, "until her cold gets better."
## CALDWELL'S

## A Balanced Meal Ration For Milking Cows <br> Caldwell's Dairy Meal will increase the flow of

 milk from your herd, winter and summer. It will also keep them in better physical condition. Caldwell's Dairy Meal has done this for thousands of dairy herdsit will do it for yours.Caldwell's Dairy Meal is always the same-sack after sack, and ton after ton. Its guaranteed analysis shows this.

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## STANDARD FEEDS



STRETCH the fabric of a Watson Spring Needle Ribbed garment. Now release it. Notice how it springs back into shape instantly. It's due to the spring needle ribbed machine which produces an elasticity in the fabric, possible in no other way.
Sold by the better class of shops in all popular styles, fabrics and


The Watson Manufacturing Company, Limited, Srantford, Ontario 103
When Writing Please Mention Adrocate

How to Plant Trees in the Fall.
 In buying trees, other things being
equal, it is advisabe equal, it is advisable to order them
from a tocal nursery. This reduces the risk of loss during transporta-
tion, and enables one to visit the nursery and make the selection per-
sonally.
In selecting a tree, a compact
 its chance of surviving the shock of
transplanting, and the more rapid will
be its growt. A large top is pesirable,
provided there ia provided there is an abundance of
roots. A tre with many branches
and few roots will many and few roots will make very slow
growth if it sulvives at all. Alee
which has lost many of its feeding
roots is unable to meet the demand made by the branches, and it it it thane
fore necessary to remove a proportional
number or the the branches to restore
the balance.
$\qquad$
> dug ulp many of the roots are sure
to be broken off or anjured The
larger the thee the greater the loss
of roots and more severe the prun-
ing reaired The sel
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nesses of that type. However, by
careful pruning as the tree develops,
the central stens can sometives
encouraged to beco
A good, straight leader like a whip-
stak or fising pole is hat is desired
for the ideal strect or lawn tree

breast height, and clear of branches
for at teast seven feet fron the ground,
will be fond most suitable. If the
tree is set near thos.
with straw and also wrapped and tied
If they arrive before planting time the roots should be "puddled" and the trees heeled in." Puddling consists clay and water about the mixture of of ordinary paint. This forms a coating over the roots and aids in prevent-
ing them from drying out. ing consists in digging a trench sufficienting deep to contain the roots with moist earth. If protected from damage by
rodents and the elemets rodents and the elements, they may be winter for spring planting.
In taking up trees which are growin on the place, as much earth as gossible
should be removed with the This prevents the roots from drying out. If the trees are to be carried
any distance before planting again it any distance before planting again it in canvas or place each tree in a bag and tie in such a manner as to prevent
the earth from being shaken off. no stage in the taking shaken off. At
ing or transplanting or planting should the roots he
allowed to become dry. This is im portant. The planting should be done The hole in which the taking up. be planted should be made much to accommodate the roots. Before plac ing in the tree, the hole should be partly
filled in with good garden loam or of the surface soil, which has been re moll-rotted the digging, mixed with some The hole is filled in sufficiently level at which it stood before being taken up. The tree should not be set deeper than it stood before, neither
should earth be banked up about the stem, except possibly in the cabse of fall planting, when it is advisable to heap it up at least a foot high until the spring.
This overcomes the tendency to heave out, and to a certan extent affords
protection against mice protection against mice.
If the tree retains a ball of earth about its roots it can then be set in
the prepared hole. The remaining sp surrounding it is then firmly packed a little at a time with good garden loam
until the hole is completely filled until the hole is completely filled and
the tree firmly set. It is well to leave whole surface to act as a a mulch.
In fall planting a layer or dead planting a layer of manure or dead leaves over the top will re-
duce the chance of heaving in the
early spring Trees without earth about their
roots should be set in a similarly pre pared hole so that the roots spread naturally and are not twisted or crowded.
Rich soil should then be sifted over them, a little at a time, and firmly worked
in among them with the fingers or pointed stick. This is proceeded with until the hole is filled. It is important
to have the soil well packed about the roots.
In
setting a taken from the very sare should be to see that
the stem is kept perfectly vertical. Attempts made to straighten it afteral.
the earth has been packed about the roots are liable to injure the tree.
After the hole has been of prevent the tree freen filled in and the swaying of the the earth wind, a guard stake should be used single stake is sufficient for any
situation in which there is little danger rom damage by children little dange Otherwise, a secure crate the full height of the trunk should be constructed about it. The single stake should
be long and rigid enough to be driven at least two feet into the ground and stim support the tree six or seven feet
above the ground. The tree should
then be atached to places. A piece of manilla rope run
through a piece of old rubber hose which has been bent about the hose tree
serves as a good fastener hranches as the top develops une tower serves as a goond fastener. The hose
is ample clearance for vehicles. On minimizes the chafing. (anadian
$\qquad$
$\qquad$
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Mutual Life C sime sound b comp

ALLOWAY LO Anzus,Sout

## Robt.McEwen,

BALMEDIE A

Aberdeen-An
Mopoted sire "Prada
A. DiNSMORE, M
Aberde
2 young bulls fif for
Blue $\& E$ bert
 FOOR $\quad$ LUPY

OCTOBER 12,1916

Horse Owners! Use

 make one for the same moneus Giffithismie



Mutual Life Companies are on the sume sound basis as other legal reserve companies and have the great feature of mutuality to boot.
alloway Lobge stock farm Anzus,Southdowns, Gollies -prize buul calves and rams-
RobtMcEwen, R.R.4,London,Ont.
BALMEDIE ABERDEEN-ANGUS

 Aberdeen-Angus Catite sexeral choice
 Aberdeen-Angus
 BEAVER HILL ABERREEN-ANGUS CATTLEE
ANDOXTORD DOWN SHEEP. Bulla from seven
Co ninetee to nineteor mont Do WN SHEEP. Bulls from seven
eree, ewe and ram ram. Females all ages. Shearling

THE FARMER'S ADVOCATE.

Silent Power Edtor "The Farmer's Advocate" The great forces of nature are silent
Plant growth, the food of man and beast, comes forth in silence. The giant tree of myriad minute cells btoward the thion

Soul
int
ats
als power of electricity is pot sithlence. The
phis and what unmeasured or silen
his more fully control.' that man may yel is transient, othe thishtring's fash


 diplomacy of life, The suggestion
of reserve force- of unnsed of unknown
 of nazure, beyond the reach of tine or plufirmet . With an indication of thes
the goal is attained. This is one of the the goal is attaned. This one of the
elements. of the power of what we all great minds, as, Shakespeare, Milton,
Carlyle, Emerson,
Browning,
Victor Hugo, who have the power to speak lines - to charge the mind of the reader through silence and suggestion.
The light of genius itself shines with permanence only in the written or
printed page. Oratory, sublime though it may be, is strictly a transient force its effect in many instances passing,
with the utterance. Where, to-day, would be the great ones of the past
were it not for the silent pages of
history? What should we know of the vast conception, the luminous and lofty
diction of Homer, the poignant satir of Juvenal, the stately rhythm of Virgil,
the philosophy of Plato, the eloquence of Demosthenes, Cicero or Longinus?
Tradition might afford some glimpses of remote times, but had nothing
been written such knowledge would be negligible. Recent men and events would be little better known through
merely spoken words. Written word carry dignity, permanence, power. While
oral expression reaches the mind through the ear, writing has the two-fold avenue
the ear and the eye. Also, the visible expression may be fixed or impressed
on the mind by reference and reading. Through the silent archives of literature or renew acquaintance with, the wise and the great, without embarrassment
and without formality. Carlyle wrote thus of silence: "Look-
ing round on the noisy inanity of the world, words with little meaning, actions
with little worth, one loves to reflect on the great empire of silence.
higher than the stars; deper than the kingdoms of death! It alone is great;
all else is small.".
$l$

Yorkshires, Oxfords and Collies.
B. Armstrong \& Son, Codrington,
Ont., write "The Farmer's Advocate" that they have had many flattering,
letters from purchasers of their stock, and since they have procured one of
the best boars they could obtain in Ontario to mate with their herd of
Yorkhire sows they look forward with
Hed a good deal of confidence to the future
trade. With regard to this mating
they write: "This boar mated with our good brood matrons is sure to give
us a class of stock that we can con-
fidently recommend to any intending hdently recommend to any intending
purchaser.". Referring to their Collies
and "Oxford Down sheep the letter and "Oxford Down sheep the letter
says: "In Collies we are expecting two litters, bred from high-class ex-
hibition stock that are splendid workers We bred and sold a dog, from one of
our present females, that was held at a
$\$ 25$ a our present females, Cnited states and
$\$ 25$ stud-fee in the In
it was well patronized at that In
Oxfords we have a few good ones,
and we hope to be able to satisfy our

Eighty Chances to get a Good SHORTHORN 80

LONDON, ONT will be the Mecca for Shorthorn Breeders on

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WHEN THE

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Eighty head of choice Shorthorn cattle, including both Scotch-topped and heavy milking strains. Some good individuals of many of the most noted families will be sold. Catalogues are now ready. Get one together with further particulars from
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You the
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Hillsdale Clydesdales Richest
Breeding I am now offering a number of in-foal young mares from Imp. sires and dams bred from Scotch and nality and breeding. B. Rothwell, Ottawa, R.R. 1, L.-D. Bell Phone, Farm, 3 miles from clty. Clydesdales We have still left some exceptionally good drafty stallions, champions; also in-foal mares and fillies. There is a horse boom coming. Buy now. ORCHARD GROVE HEREFORDS L. O. Clifford Oshawa, Ontarie SHORTHORNS AND SHROPSHIRES T. L. Mercer, Marddale,Ont.
 Campbill-bred Clarets, Nonpareils, Marr Missies, Stamfords, Crimson Flow
Charming Jems, ranging from 9 to io months old. All good reds and roans.


Spre Shorthorn When in mant of Shorthoms, visit our

 1) GLENGOW SHORTHORNS AND COTSWOLDS Pure Scotch in breeding, we have an exceptionally choice lot of bulls for this season's
trade, ranging in age from 8 to 15 months, big mellow fellows and bred jin the purple.
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L.-D. Phone

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AUCTION SALE OF
Pure-bred Stock
Under instructions from the Minister of
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## THURSDAY, OCTOBER 26th, 1916

A Public Sale of Surplus Pure-bred Stock
 For Catalogues apply to
G.E.Day or A.Leitch, Ont. Agricullural College, Guelph, Ont

## Escana Farm Shorthorns

FOR SALE: Two imported bulls, proven valuable sires; 12 bulls. 10 to 20 months old, all by imp
sires and from high-class damms ;also for sale 20 heifers and young cows several with calves at foot, all of
very choicest breeding and especially suitable for foundation MITCHELL BROS., Mail orders a specialty. Satisfaction guarante Jos. McCrudden, Manager. Farm $1 /$ mile from Burlington Jct. Robert Miller Still Pays the Freight-And he is offering in Shorthorns some of the best
some younger still: heifers ready to and heifers that can be produced. Young bulls fit for service, some younger still, heifers ready to breed and younger and some in calf. They are of the best
Scoth fanmilestand some or them trom geat milking fanilies. They ane in good condition and made
right, fust what you want to make a proper foundation for a good herd, and suitable to improve any
 Woodholme Shorthorns For shat ander of yonide not good farmer's bulls of the right kind and breeding. Write your wants. $\mathbf{G}$. M. FORSYTH, Claremont, Ontario

SALEM SHORTHORN HERD

 of high-class, fashionably-brea Sootch Shorthorns in calf to Sittyton Sultan's Dale, a Mina-bred son of
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Questions and Answers.

## Miscellaneous.

## Blacksmithing

Has a blacksmith got to stop his work of shoeing a
mail driver's horse?
Ans.-No.
Four horse Evener-Oyster shell 1. Kindly advise me through the columns of your paper how to construct
four-horse evener for a plow, so the off horse will not travel on the plowed land. 2. I have some- two-year-old apple
trees which are gradually trees which are gradually going back
or becoming stunted. The leaves all or becoming stunted. The leaves all
through the summer were a yellowishgreen, and many of them were half brown. The limbs, especially at the
forks of the branches, are covered with a forks of the branches, are covered with a
sort of gray mass which looks like eggs. sort of gray mass which looks like eggs.
I have been told this is oyster-shell bark louse. Kindly prescribe a remedy
Ans. - 1. The accompanying illustra-
tion represents an evener to be used on tion represents an evener to be used on
a plow. The two lines indicate the furrow. where the off horse travels. of this construction as we have never used it. It was sent us by a corres-
pondent who claimed that it was all pondent who claimed that it was all
right. C , is a strong doubletree, 5 end to the centre of the first pulley it is 7 inches; from centre of first pulley


## Good For Man

 And Beast V추N..
## Kendalls SpavinCure



Glenfoyle Shorthoris Large selections in females, all ages, bred
from the best dual-purpose families. One extra choice fifteen-months bull, some younger ones coming
worth the money Stewart M. Graham Stewart M. Graham, Lindsay, Ont. 1854 Maple Lodge Stock Farm 191 Whe have now for sale one 2 -shear Leicester ram, three shearlings 2nd 14 ram lambs. Also a few
young ewes and ewe lambs. All these are of er.
cellent quality and choice breeding, and will be cellent quality and choice breeding, and will be
priced moderately Come and seeour flockil
Miss Charlotte Smith, Clandeboye, R, R. Shorthorns Males, femates, one soo younger, three fresh cows, calles by months, five
Right dual-pu:pose breed and kind. Thomas Graham. Port Perry. R.R. 3.Ont PLASTER RHL SHORTHORS MILKING STRAINS-5 young bulls, 5 to 12
months, bred from record cows. Visitors welome. F. Martindale \& Son, G.T.R. Caledonia, R.R. 3

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SHROPSHIRES Registered ram lamb, one of Millers' breeding.
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Cream Separator will bring reinforcements that you have needed for some time in your dairy to enable you to make a "drive" for larger cream profits.

It will bring to you a skimming device that Government Dairy Schools have tested out and proven to skim so close that only one-tenth of a pound of butter-fat is lost in every $1,000 \mathrm{lbs}$. of milk skimmed The Ontario Government's Dairy School Bulletin No. 206 considers the loss of one-half pound of but-ter-fat good skimming. And there are machines that lose even as much as a full pound and more in eviry one thousand pounds of milk skimmed. Dear knows how much an old obsolete machine that has been in use for years loses. Certainly enough cream,
if were saved, to soon pay for a modern Standard Cream Separator.

The Standard also will bring to your dairy a real self-oiling system. This machine runs in a bath of oil, the reservoir only requiring to be filled three or four times in a whole year. This saves oil, keeps the machine in perfect running order, and means less attention required

It will bring, too, a wide open bowl and discs that can be cleaned thoroughly in a minute. It will bring safety, for the Standard's gearing is all enclosed.

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But these are all described in our latest Cream Separator Cata logue. Send us your name and address, and we will mail you a copy by return post.

## The Renfrew Machinery Co., Limited, Had Ofice end wortar: Renfrew, Ontario

agencies almost everywhere in canada

Questions and Answers. Miscellaneous.

Cooling Room
1 am building a cooling room and iceholuse. The cooling room is 8 by 12
fet, and the ice-house 12 by 12 feet. feet, and the ice-house 12 by 12 feet. off part of the ice-house so as to have a place where I could keep meat fres place where time could keep meat.

Ans.-You do not state the kind of
an ice-house you propose building. If it is one that is thoroughly insulated it might be possible to partition off
one corner of the ice-house, possibly
$a$ com 5 by 6 feet would be sufficient, and the entrance could be made from the cooling room. By having openings
in the wall between the room and the
icabouse ice-house, both at the top and bottom,
a circulation of cold air will be secured through the small room. Of course working on this plan it would be neces-
sary to have the walls built in such a way that the ice will not be affected quires a fairly thick wall, with a space filled with shavings, a layer of building paper, and several thicknesses of lumber.
In this kind of an ice house no sawdust or shavings are required around the ice an ice-house of one ply of lumber and pack the ice in sawdust or shavings,
so that it can be taken out and placed in water for cooling milk, etc., a small refrigerator might be built in one corner
of the cooling principles in the construction are that the ice must be placed in a tray in the upper part, as the cooled air is
heavy and descends. Water formed by melting ice must be drained off to hine outlet pipe must have a tran off alsor Shooled air from being drained the best Shavings packed hard are but they must be absolutely dry. It is advisable to have the refrigerato quirements for its work. Home-made refrigerators have been made by nailing matched lumber on each side of fourinch studding and packing the inter-
vening space with shavings. of building paper and another thickness of lumber on one side would be an advantage. For building an ice-house as first mentioned, the same principle is
used, only there should be a greater


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 Une voctivis stio Larkin farms Onatio

## HOLSTEIN CATTLE

 D. D. Fhatt \& son

## For Sale---Sons of King Segis Walker

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osinwa, ontario
DUMFRIES FARM HOLSTEINS

 HOSPITAL FOR INSANE, Hamilton, Ont.


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Evergreen Stock Farm, High Class Registered Holsteins Place your order early if you expect to get one of those good bull calves from some of the good cowes
 A. E. HULET, NORWICH, ONT.
 - world's reorrd when made. His ten near ralatives have ooficial recerdd that average 34.94 libe. butter

thickness of shavings. The door of refrigerator should be built similar to the walls.

Value of Silage.
I wish to buy some corn out of a silor
the diameter of which is fourteen feet. How much a foot would it be worth? Ans.-The depth of silage is not mentioned cubic foot near the wetton more per cubic foot near the bottom
than it does at the top. However about 30 pounds per cubic foot is a fair estimation of weight. The value depends somewhat on price of other fodder
Good silage is frequently valued about $\$ 3.00$ per ton, but it is possibly worth considerably more under certain conditions. There will be between $2 / 2$ and 3 tons of silage per foot in depth
in a silo 14 feet in diameter.

## Cider Vinegar.

I have four barrels of last fall's cider vinegar sitting out in our yard which has not ripened during this hot and exposed to covered with glass Can you tell me what to use to help make the vinegar strong so it can be
used? V. F. McL.

Ans.-The process of making vinegar is hastened by adding, to the cider ab
quantity of mother of vinegar, a whitish ropy substance of a mucilaginous appearance which forms in vinegar and stance from a cask of vinegar. It should start fermentation of the cider. When making vinegar it should be kept in a moderate degree of hear
access of external air

## Closing a Road.

A road across a piece of private property has been used by the public for about twelve years, can it be closed so , or can the party owning it collect because it's his only way out? This road is in the bush and it's about 60 yards across this property.
Ans.-The roadway in question can be closed. The party owning the land over which it runs is quite at liberty to do that, or he may arrange with others, who may wish to travel it (in-
cluding the farmer mentioned) at cluding the farmer mentioned)
periodical sum for the privileg. Any such arrangement ought, of course, to be in writing and signed by the parties
thereto.
thereto.

CREAM
Where are you shipping now？ And what are you getting for We crant We want more individual shippers for us．
Write for our proposition．
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Write，＇phone，or wire for prices． The Chisholm milling co．，Limited

JERSEY BULLS．For sale－K Koolwod＇s Raleigh，
sire Fairy Glen＇s Raleienh（imm．）， 22 daughters
R．O．Pi，dam Eminent R．O．P．；dam Eminent Honeymoon（imp．，R．O．P．
Sibits．butter；reserve champion on Island． Capt．



Lakeside Ayrshires A few young bulls for sale from Record of
Performance dams．importerand Canadian－
bred，sired by Auchenbrain Sea Foam （imp．） 3575 ，rand champion at both Que－ GEO．H．MONTGOMERY，Proprietor

DOminion Express Bldg．，Montreal，Oue Glencairn Ayrshires | H Herd |
| :---: |
| years． |
| $\substack{\text { established } \\ \text { Producing }}$ |
| 40 |



## Shorthorns and Leicesters a Willowbank．

 There is perhaps no breeder of．pure－bred live stock who uses the column
of of＂The Farmer＇s Advocate＂columns pose of his surplus，more widely known than Jas．Douglas，of Willowbank Farm，
Caledonia，Ontario as far as No． 1 volume of this paser the Douglas Shorthorns and Leicesters have been among the winners in every
live－stock ring throughout the Dominion
STestic Speaking of the herd to－day，aftrer a
recent trip to the farm，we are pleased It is able to report it still progressing．
It impossible for any herd tes． still；it must go one way or the other
and Mr．Douglas is a breeder to take any chance or stand－
ing at ease ang at ease with a pbssibility of slipping
backward He attributes his success
to the selection ate sires．Starting with the best of breed
ing females，it has thee ing females，it has been comparatively
easy
year to sow advancement year ver year with the use of the bear sire
procurable．The present bed noted bulle，is only one of several
up to bave brought the Douglas bideals．He ihe rd
un
 grandson of the renowned Whitehall
Sultan，combining．perhaps， this breeding than perhaps，more of
America to－day other sire in
An has almost an unbeaten record；being
practically the the Western show circuit champion of DI5．His calves，the first in the
Douglas herd，are now just the On and are exceptionally yut coming
fleshed the fieshed young sires．A great many of
these are from daughters of the former Cruickshank Buterfly herd sire，Roan
Chief（imp） Che older breeding matrons，of course
which are imported of excellent milkers．The entire offering young bulls at present are from these
dams and sired by Roan Chief．There are nearly a dozen young bulls in all，
ranging in ages from ranging in ages from 10 to 18 months，
and，taken all through，they are good a lot as we have seen toget her
this season．In females there is a wide
sele selection，including a number of choice，
thick，young heifers safe in calf
B Browndale，and others with Browndale
calves calves at loot．There are at all times
almost one hundred head from which In Leicesters the selection of rams and shearling ewes is by far the largest
it all are fromi Mr．Douslas＇best．Nearly ewes and got by a Calder－besed，imported d
ram．If Shorthorns or Leicesters you of eathae
spend a pleasant day spend a pleasant day at Willowbank，
and will be made welcome．

## －Trade Topic．

Homeseekers＇ $\begin{gathered}\text { Excursions to Western } \\ \text { Canada }\end{gathered}$ The Grand Trunk Railway，System
issue round－trip，homesekers＇
tickets at very low fares from stations in
Canada to points in Manitol
 Bay，Cochrane and Transcontinental
Route，or via Chicago，St．Paul and
R Route，or via Chicago，St．Paul and
Duluth，and are goo，seturning two
months from date of issue． Through tourist sleeping cars are operated each Tuesday for Winnipeg
leaving Toronto 10.45 p．m．via Trans
continental Route Coantinental Route without change
Reservations in tourist sleepers may be obtained at nominal charge on applica The Grand Trunk Pacific Railway the shortest and quickest route between
Winnipeg，Saskatoon and Edmonton with smooth roadbed，electric－lighted
sleeping cars，through
，the
 developing section of Westert Capididy
Before deciding on your trip ask Crand Trunk Agents to furnish full
particulars，or write
Dist particulars，or write C．Horning，
District Passenger Agent，Toronto，Ont．

Young Man－＂So Miss Ethel is
your
your ，eldest sister．Who comes after
Tommy－＂Nobody ain＇t come yet，
but pa says the ffirs felle＂that comes

## Big Gen



He Flags the Sleeper


## Gurney Oxford GOLDEN NUGGET

 satisfaction．
Steel range value possible only from the
largest makers of stoves，funaces，ete largest makers of stoves，furnaces，etc．
in the Empire．Our famous divided flues，
exclusive fire exclusive fire－box，scientific oven make，
it a splendid cooker on very little fuel Complete with six $9^{\prime \prime}$ covers－ $20^{\prime \prime}$ oven，risht hand reservoir，warming closes，ruggedly，strong；
weight 340 Obs．Put one in your kitchen and
enjou real to．

 meer GURNEY FOUNDRY CO．LIMITED

F


Ayrshires and Yorkshires
 alex hume a

THE CITY VIEW HERD OF PRODUGING AYRSHIRES

Young Brampton Jerseys Bulls
 wooditiew fary Cana＇da＇s most beautiful Jersey herd
 Jno．Prrizie，Proo．We work our show cows and show our work cowe
 both sides with official and high producing blood．Also yearlings heifers and heifer calves，
Duncan，St
TODMORDEN，RUNCAN \＆SON，


Easy Balin




MILTC

Smoth，Hard，Cle
Milton PRRS

SEED


Soce Merchants
For Sale． 3 ．
IIf ach naidining
Natanite an an
Tower F
 LINCOLN SH

SHRO


Thareharmen, Rad This! Best 2-inch Wire-lined Best 2 -inch
Suction Hose- in $15-$
20 and $25-\mathrm{ft}$. length Our price, 37 c . per ft Write for our
Illustrated Calalogu Engineer's Bargains Also Ceneral Supplies
for Farmers
Windsor Supply Co.
Easy Baling Admiral Leverage doses Motor Press,
 Free New eatalog and


When Building-specify MILTON BRICK
mooth, Hard, Clean-Cut. Write for booklet

$$
\begin{aligned}
& \text { MILTON PRESSED BRICK COMPANY } \\
& \text { Milton, } \\
& \text { Ontario }
\end{aligned}
$$

## SEED WANTED  CLOVER, and TIMOTBLOSSOM, SWEET offer send samples and we wied. If any to bege price F.O.B. your station. <br> seed Merchants <br> $\qquad$

For Sale, ${ }^{30}$ Pure Shropshire Ram Lambs, sive each, including pedigrees. $\begin{aligned} & \text { Young ewes and } \\ & \text { eww lambs at moderate prices. } \\ & \text { Also pure Jerseys }\end{aligned}$

Tower Farm Oxfords
 LINCOLN SHEEP $\underset{\text { few ewes and }}{\substack{\text { Shearling rams and } \\ \text { ram } \\ \text { lambs, also }}}$

SHROPSHIRES
mover of the wheat he grow knows that
finds its way to Since the beginning of this Country. he also knows that owing to the British navy every German and Austrian merchant boat has either been captured, interned or is afraid to put to sea from its home port, and that the German navy has been, and is, absolutely powerless to help them. Consequently the farmers think the British and ally merc... $n$ nt ships trading to the Dominion and colonies can continue their usual work and food flows into Britain ás usual, with, of course, some extra expense inseparable from a big war. To a great extent this is true, but owing
to every man and horse, rifle and to every man and horse, rifie and gun,
cartridge and shell, motor bicycle and
heavy heavy lorry, every eatable, suppplies
of a hundred thousand sorts having
of to be transported across oceans and the
Channel, not only for ourselves but our Channel, not only for ourselves but our
allies also, and the enormous supplies
thet that have to reach the normy in supplies
seas thiferent seas, thousands of merchant boats. have
had to be taken over by the (who administer the transport), there
fore leaving ber Tore leaving bats in greatly insufficient
numbers to carry the vast amount freight offering them. Thus we have
the demand greater tha the Competition for cargo space on these
boats being keen, the tichest thes naturally gets his cargo shipped, and so
sets the prices. To give some ide
sol how freight rates have risen, the two
following examples will be sufficient: =I July 1914 , grain from Montreal
to Liverpool was carried for six cents per bushel, to-day the freight is 30
cents per bushel. In Jully of the same
year ptr bit year the freieht on maize from the
Argentine to the British Isles was $\$ 4.00$ per ton, to-day it is \$40. Not only
is it from these two countries that exorbitant rates prevail, but Australia,
New Zealand. India Sout Aus What Afrew Lealand, India, South and West
Arica likewiss suffer. From all these
counties foisd sum countries food is the chief article that
is being exported to the Old Country
it The cost of freight is, of course, added to the wheat, flour, sugar, meat or
whatever it is, which means the con sumer ultimately pays for it. Although accepted that the freight is chiefly responsible for the abnormal prices on
necessities that prevail to-day. In many cases food profiters have and are
having an innings. In no country are they free from these parasites, men who are only too ready to tak
advantage of their country's misfortune advantage their nefarious practice inflict untold hardships on the poorer people.
There is also no possible doubt that There is also no possible doubt that
the shopkeepers put the price on when ever they have an opportunity.
To meet this extra expense of living, wages and salaries have been increased and a war bonus granted. Munition
makers, arsenal and dockyard hands makers, arsenal and dockyard hands
miners
and thousands of industries in connection with the war especially were never so well paid, even the farm
hands have had their wages increased With millions of men in the earmy who is willing to work, consequently
there
and there is a great decrease in poverty,
yet a great number feel the pinch of yet a great number feel the pinch of
this war old age pensioners, people
this wall set incomes, and especially
with small set those living in the open coast towns of Norfolk, Suffolk, Essex, and Kent
where the dastardly Huns rejoice in where the dastar
dropping bombs from Zeppelins. A A great
many of the residents of these towns derive their living from summer visitors
 from Canada and Australia were sent to these coast towns. Gilts that whll
ever be remembered. Every one speaks "right home.," What the Dominion have accomplished in this war has done more to educate the masses of what the
Empire really is than they would have Eearnt in a lifet-time. Advocate" an idea of the prices preing are the market quotations for the
last week in August:

## What's the Value of Your Life?

Every man's life has a ccrtain definite commercial value based upon the income he is able to earn.
What is the value of your life? Let us assume it to be $\$ 15,000$. This amount at $6 \%$ will produce a yearly income of $\$ 900$. So you see 15,000 is not an excessive valuation.
Now, if you owned a building worth $\$ 15,000$, would you insure it to indemnify yourself against its loss by
fire?
Of course, you would. And yet the building may never burn.
But have you taken the same precaution to protect your dependents against the loss they would sustain in the cutting off of your life by death? And sooner
or later that is sure to happen. Hater that is sure to happen. it your write is iod for fured for the value you place upon of an Estate.' ${ }^{\text {it, }}$ Tomorrow you may be uninsurable.
THE IMPERIAL LIFE Assurance Company of Canada Head Office, Toronto

Branches and Agents in all important centres
A useful 76 page memorandum book will be sent free to
those who ask for it.
$\qquad$ those who aak for

The Old Original Summer HillFarm where you'll always find a

## First-class Oxford

I have eighty head of very fine yearling ewes for sale, also a number of yearling rams for show purposes or flock headers, fifty head of ram lambs and fifty head of ewe lambs, all bred in the
purple. All recorded and first-class individuals. No grades
purple. All recorded and
PETER ARKELL \& CO., Proprietors Mildmay, G.T.R. Stn. Box 454 Teeswater, G.P.R. Stn. (av) VISITORS WELCOME
H. ARKELL W. J. ARKELL
F. S. ARKELL Summer Hill Stock Farm OXFORDS
in Canada. Look up our show record, it will give you an idea of the PETER ARKELL \& SONS, Proprietors, Teeswater, Ont.

## Oxford and Hampshire Down Sheep

## Farnham Farm The oldest established $\begin{gathered}\text { flock in } A \text { merica }\end{gathered}$

Having quit the show ring we hold nothing back. Out present offering is a number of superior year
ling and two-shear rams for fork headers, a carload of yearling rane rame, a hundred first-clase
 BLAIRGOWRIE SHROPSHIRES AND SHORTHORNS

,

MAPLE SHADE SHROPSHIRES


## STEEL TRUSS BARN

## LIGHTNING

It is fire-proof, durable and roomy ASK FOR CATALOGUE The Metal Shingle \& Siding Preston, Ont. Montreal, Que.

## Cotton-Seed Meal

GOOD-LUGK BRAND Calf Meal, Oil Cake Meal, Flax Seed, Distillers' Drjed Grains, Gluten Meal, Brewers' Dried Grains, Bran, Shorts, Poultry Feeds. Write for prices.
Crampsey \& Kelly Dovercourt Rd., Toronto, Ont.

## Harab-Davies

 Fertilizers $\substack{\begin{subarray}{c}{\text { Vald } \\ \text { Remict }} }} \\{\hline \text { det }} \end{subarray}$ THE ONTARIO FERTILIZERS, LTD
## Sows \& Boars

FOR SAL
Illerolds Farms, Beamsville, Ont. Meadow Brook Yorkshires. Sows bred. eowe 3 tow 4 months old, ond a feww choice young
boors Aulb brod from prizewinning stock. Also one Shorthorm bull 18 . monthe MINERS, R.R. 3 , EXETER, ONT. Berkshire Pigs Registeded stock, choi cely in pig, all ages. Can supply pairs not asin.
CREDIT GRNNGE FARM J. P. Pearson,Mgr.
Yorkshires $\begin{gathered}\text { Sows bred, others ready to bred } \\ \text { and younger ;boars } 2 \text { and } 3 \text { months, }\end{gathered}$ from carefuly selected stock.
Shropshires Ewes, 2 to 4 , years, ewe and ram WM. MANNING \& SSNS, Woodville, Ont.


 Champion Berkshires When buying offering are sonc and daughters of the two great
champoiss. Lucky Lad and Baron Compton and Out of winners, including champions. Both sexes.

W. W. Brownild ge, Georgetown. Ont. R.R. 3 . | YORKSHRES AND SHORTHORNS-We are |
| :--- |
| offering two choice Killeman Beauty bulls, one from | youmg Yorkshire pizs of of both bexes, from a lititer of of



## TAMWORTHS

JOHN w. Tomp $\begin{gathered}\text { nice young boars. }\end{gathered}$

 DUROC JERSEY SWINE

 Alderley Edge Yorkshires $\frac{\text { Knowlton, Que. }}{\text { ELMFIELD }}$
 YORKSHIRES and OXFORDS
 B. Armstrong \& Son, Codrington, Ont.

THE FARMER'S ADVOCATE.

Wheat, Manitoba best, 1915......... $\$ 2.25$
Barley, Canadian Barley, Canadian. 40 pounds per
Oats Canadian (40 bushel) Ry
Corn...

 pounds.............. per 2408.50 Hay (clover), per ton...................000
Hay (meadow), per ton.........
Cattle-An average of 25 cents per pound live weight, $\$ 250$ for a good
bullock or steer is frequently realized Sheep are 25 cents. Ewes and tups
18 cents. Lambs $\$ 9.00$ to $\$ 11.00$ each. The reading of the Canadian grain
and live-stock markets is simplicity and live-stock markets is simpnciche other hand, are almost incomprehensible, as every market appears to have its
own method of buying and selling. To illustrate this take the grain re port of the few following markets:
Barnsley-Wheat a little dearer up to $\$ 4.75$ per load. $\quad$ Braintree - Market quiet. English wheat $\$ 12.00$
Birmingham - Manitobas
$\$ 14.50$ per 496 Manchester- $\$ 12.75$ per 504 pound
On Preston- $\$ 5.75$ per windle
rail
The live-stock trade reports are inkewise contusing, and to tell at
glance which market is the more profit
able requires much time to find out. For instanee, at EBraintree, cattle made upitoc $\$ 202$. ceicester, choice compact beef $\$ 3.50$ per stone. Dublin, prime beef $\$ 23$ per hundredweight in, prime The hog market is almost a trade by
itself. Hogs are sold as: Sizable bacons itseffi Hogs are sold as: Sizable bacons,
smali pigs, sows, young pigs, stores, pork pigs and eight-week-old pigs (which make
accord
of all of all descriptions are very high.-H. H . Jaques.

Questions and Answers. Miscellaneous.

Ensiling Dry Corn.
10 feet by are building a small silo in getting it finished for this year
We have our corn cut and shocked but the fodder was not cut with th frost. It was nice and green when cut and was set up before it cured. It
will be about two weeks from the time the corn was cut until we fill the silo Will we have to put water on the fodder on it, and what is the best way to put
$\qquad$
Ans-1.-It is usually advisable to
in shock for some time thas stoo
amount of moisture is necessary for the
take place in the silo. If too dry there is always danger of corn fire-langing 2. The a mount of water depends altogether on the dryness of the corn
Too much moisture tends to make sour silage. From one-quarter to a half-
inch stream rumning into the blowe at time of filling is generally considered pressure of water must also be taken water over the corn in the silo, it is
more evenly mixed through the corn if cutting box. 3. Both give good satisfaction. It
is impossible to say which kind is the better, as both have many good points
and their admirers are fairly evenly divided. What appeals to one man
 farms where the different kinds are
used, and draw conclusions from what is
$\qquad$
"Is Smith a good advertising soli-
 a bock-beer ad. in a prohibition paper,
and then talk the paper into accepting
it."

## Founded <br> 

Laid ${ }^{\prime}$ THREE Eggs in 23½ Hours



## pratts.

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 Your Money
At-youl Dealer's- 12 -lb. pail, $\$ 1.25$; $25-\mathrm{lb}$. pail, 82.50 ; $100-\mathrm{lb}$.-bag, $\$ 9.00$
Write to-day for Pratts 64-page Book, "Poultry Wrinkles" It's FREE.
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Quality in YORKSHIRES
RICHARDSON BROS. COLUMBUS, ONT:

,

ADAM THOMPSON $\qquad$
Shakespeare Station, Stratford, Ontarto

LYNNORE ENGLISH BERKSHIRES

Maplehurst Herd of Tamworth Swine soc.w tatay waw in the last ten years at the Canadian National, Toronto, Ottawa, London and Guelph Winter buit
D. DOUGLAS \& SONS,
MITCHELL, ONo.
Newcastle $\begin{aligned} & \text { Herd of Tamworths and Shorthorns - Stock boar and } 2 \text { aged sows for sale } \\ & \text { fit for any show ring; also boars ready tor service, and a number of sows bred tor }\end{aligned}$
 great dual-purpose cows: several extra good cows, with or without their calvess: also heifers in calf to
Broadlands, my present stock bull. Show stock a specialty. Prices reasonable. Long-distance 'phone. Oak Lodge Yorkshires $\begin{aligned} & \text { We are in a position to supply boars and sows of } \\ & \text { difterent ages } \\ & \text { Yorkshires that has have an established type prof }\end{aligned}$


ElMHURST LARGE ENGLISH BERKSHIRES


DUROC JERSEY SWINE, JERSEY CATTLE


## To <br> (This of <br> WE OFFE <br> Your your premi <br> Ladie

of extra fin by sending we are una

## FOR ONE Compl

 A Utens Basting Sp Serrated E of the best finish, hard All six art
## Jack K

"The Farm SUBSCRIB

## Bibles

places and
This book
regular reta
centre refer
There ar
Home Maga
to secure su
free. Start
ALL SU CASH TO A
Any of the
China Tea Bibles.
Knives
Complete Ki
Sanitary Kit
If you h
the family
The W
(This offer is not open to anybody who is not already a subscriber to this paper) WE OFFER YOU THESE VALUABLE PREMIUMS AS REWARDS FOR A LITTLE SERVICE THESE PREMIUMS MAKE SPLENDID CHRISTMAS PRESENTS

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Basting Spoon, Butcher Knife and Emery Steel, Serrated Edge Bread Knife and Paring Knife, made of the best grade of crucible steel, with Rubberoid finish, hardwood handles with nickel plated ferule. All six articles for ONE NEW SUBSCRIBER.

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If you wish to keep Mr. Edison's superb new instrument send us only $\$ 1.00$ after the free trial. Pay the balance on the easiest kind of monthly payments. Think of it-a $\$ 1.00$ payment, and a few dollars a month to get this brand new style outfit-the Diamond Stylus reproducer, the musical quality-the same Diamond Amberol Records-all the musical monthly terms. Convince yourself-a free trial first value for $\$ 1.00$ down, balance on easiest mon unless yous choose to keep the instrument. frirst. No money down, no C.O.D., not one cent to pay unless you choose to keep the instrument.

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Sucha variety of entertainmentl Fear the lated
up-to-date song hits of the big cities. Laugit until the tears streain down your face and you sidesache from laugiting at the funniest of funny
minstrel shows.
hymmn, the majestic, choirg srand old churdi
ing the famous
 of Europe. Hear the pealing organes. the crash-
ing brass bands, the waltzes, the $t$ orsteps, the ing brass bands, the wallzes, the two steps, the
solos, duets and quartettes, You will sit awesolos, auets and quartettes, you will sit awe
strick at he wonderfle grand operas as sung
by the world's greatest singers. You will be by the world's greatest singera, You will be
moted worthe tender, sweet harmony of quar-
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