## PUBLISHED EVERY WEEK. $\$ 1.50$ PER YEAR.

## First cost last cost

Once on Brantford Roofing will last as long as the building. To learn why, we have only to examine a section of it. First of all, we notice its pure, long-fibred felt base, which is the center of the roofing sheet. Next we note on either side of this, and thoroughly saturating it, a layer of asphaltum or mineral pitch. Then deeply and firmly embedded in these layers of asphaltum is a coating of fine silicate particles. This completes the sheet of Brantford Roofing. There are three distinct grades of


## Brantford Roofing <br> "Nature's Waterproofing"

1 BRANTFORD ASPHALT ROOF.

- ING which has an upper coating of silicate particles, a lower coating of silicate particles, and two layers of asphaltum on a base of long-fibred wool
2 BRANTFORD RUBBER ROOF 2 ING which is made on the same pure wool felt base, and then saturated with asphaltum. Then it is coated on both sides with mineral rubber; this gives it a smooth, rubber-like surface which is very pliable and durable. It is also made in three thicknesses.
3 BRANTFORD CRYSTAL ROOF process which goes through the same
heavy weight only. It is coated with or tarring. It is easily and quickly quartz crystals and may be had in the laid on either flat or steep roofs. It is natural, fadeless rock colors of red and not affected by heat or cold, and pergreen.

Take the trouble to cummine care fully the roofing you biyy A buildings with Brantford Roofing, and thin roofing indicates how it is made You will also have a better looking as well as of what it is made. Brant- roof than can be obtained at anything ford Roofing is made of undiluted like the same price one which will asphaltum by a slow patient process, add dollars to the value of the buildbecause a durable, dependable rooling ing it protects.
fast tum with oils or other similar material.
and booklet, or give us the dimenof your building, and we will gladly submit estimates without charge or mediate use. It requires no painting obligation.
N. B.-Tenders submitted on plans and specifications for laying of roofing contracts by our own staff of experienced roofers.
Brantford Roofing Company, Limited, Brantford, Canada Branch Warehouses: Montreal, Quebec, and Toronto, Ontario


# A CAUSE AND ITS EFFECT 

## An observation of interest to owners and prospective owners of motor cars

TO start with a clearly defined purpose and to pursue that purpose with an unwavering determination and an intelligence, born of experience, is to insure ultimate success.

The paths of business are strewn with the remains of those who have failed to recognize the importance of this fundamental.

The history of business is replete with obituaries of those who started to go, knowing neither where nor how.

The Maxwell Motor Company was founcied to build a certain type of motor car; to build it just as well as experience, money and human ingenuity would permit, and then to produce it in large volume so that a low price could be possible.

The Maxwell Motor Company has worked ceaselessly to this end. Every part of our plan has been rigidly enforced. No available resource that could aid in the achievement of our purpose was overlooked.

The dominant. underlying note in the policy of our company has been, and always will be. to build a motor car of honest materials and by honest methods. We know that merit and value make the only permanent foundation for our structure of success.

Merit and value imply comfort, an attractive design, an efficient motor, a sturdy chassis, the use of the best materials, complete equipment of tried accessories and economy in first cost and aftercost.

Each one of these qualities are part of the Maxwell Car. We do not put forth any one of them as a compelling
reason why the Maxwell should be the car of your choice.
We are selling motor cars-complete motor carsand consequently do not base our appeal on motor speed or power, wheelbase, bulk, weight or lack of weight, appearance or any other single feature.

For example, the Maxwell engine, per pound of weight to be moved, is the most powerful automobile engine in the world. But we do not sell you a car on that account alone. We sell you because the Maxwell has every desirable feature-among which power is but one.

We hold that our manufacturing and selling policy is right. In proof thereof, we point to our record of accomplishment, which is nothing short of phenomenal.

Since the founding of our company, three years ago, we have doubled our output annually; we have improved our car constantly and have reduced our price.

Having behind us the tremendous value of public good will. an organization of dealers and distributors that is second to none and an improved product that is making good in a big way, we will build (entirely in our own factories) and sell this year, 125,000 automobiles.

We are proud of our record. It is something rightly to be proud of. Things do not simply happen. There is always a reason for such an unusual success. Feeling certain that our plans and policies are correct, we will continue to follow them as faithfully as in the past.


Prooidont

## Touring Car, $\$ 850$ Roadster, $\$ 830$ Cabriolet, $\$ 1235$

Town Car, $\$ 1300$ Sedan, $\$ 1400$
All cars completely equipped, including electric starter and lights.
All prices f.o.b. Windsor, Ont.
Jdaxwell
Motor Company of Canada.Ltd. Windsor.Ont.




## National Dairy Show

 SPRINGFIELD, MASSACHUSETTSOctober 12th to 21st, 1916
GREATEST DAIRY SHOW EVER HELD IN THE WORLD
1,200 cows. Acres of Dairy and Creamery Machinery Draft Horses and Evening Horse Show. A Ten Days' Course in Dairy Farming.
Canada and New. England are closely allied, and we will be glad to note
appreciation of this great show by liberal attendance of Canadian friends.

## Winter Comfort would brighten your home

Just try it. Just announce that you are going to install a Hecla Furnace and see how every one brightens up.

Winter in a cold house is a dreary outlook. There can never be real contentment without warmth. Why not make the old home the finest place on "earth? You can transform it for a very small outlay.

No matter what price you pay, you'cannot have more healthful or more economical heating thaniyou will get through a Hecla Mellow Air Furnace.
$\therefore$ The Hecla alone has the positive proof against Timpure air. Dust cannot float through the registers. Gas cannot escape into the'house, for the joints are forever sealed against leakage. The Hecla Fused Joints are guaranteed not to leak.

The Hecla has wonderful provision for moisture. The air is always mellow. Dryness is found in other systems at triple the Hecla price. Consider this well. Health should" "guide your choice of a heating system.

## HECCLG <br> Mellow Air Furnace

The coal bill is a yearly charge. Save one ton in every seven. You can do it with a Hecla, because it has pa triple heating fire-pot. This is the SteelRibbed fire-pot used only in the Hecla Furnace. Thousands have found this a great fuel-saver. Ask them how much coal they use. That will prove? Hecla economy

Wood can be used in the Hecla as well as coal. The door is very large. Big chunks of waste wood will keep \{ your home warm during the chilly days of spring and fall. No extra parts are needed to change the Hecla from a coal

Clare Bros. \& Co., Limited, Preston ${ }^{\text {}}$ Winnipeg, Vancouver

See and try a DE LAVAL Cream Separator
YOU can't afford to take any chances when buying a cream
separator. It is important that you get a machine which will stand constant wear twice a day for many years to come.
It is important that you get a machine that will run easily and be easy to wash and clean.
It is vitally important that you get a
machine which will save all of your crea instead of losing enough in a year to
amount to more than its cost We more its cos. We know that if you see and try a will buy it. It It's its own best salesman.
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De Laval Dairy SupplyCo.,Ltd. LARGEST MANUFAGTURERS OF Sole distributore in Cannda of the famous De Laval Gream Separators
and Alpha Gas Engines. Manufacturers of Ideal Green Feed Sillos. Catailogues of any of our lines
mailed upon request. $\begin{array}{ll}\text { MONTREAL } & \begin{array}{c}\text { PETERBORO } \\ \text { WINNIPEG }\end{array} \\ \text { VANCOUVER }\end{array}$ 50,000 BRANCHES AND LOCAL
AGENGIES THE WORLD OVER



## EDITORIAL.

Adversity is a real test of men.
Lift the mangels before they get frosted.
There is still room for more comforts at the front.
Fall, the busiest time in the year, is here in earnest.
Honesty and straightforwardness are rare good qualities in any man.

There are three classes of useful men-producers, munitions workers and fighters.

It will pay to leave the red clover, saved for seed, o be threshed when cold weather comes.

On the nail keg at the corner grocery may be good place to gossip, but it is a poor place to farm.

The Canadian voter is just commencing to "do things" to governments. It will be good for Canada if he never forgets how.

Prices on some farm crops may be higher this year because of the weather, or of rust. Not all things go up "because of the war.

The judge who satisfies himself is generally a better judge and does better work than the judge who tries to distribute the prizes to please, everybody.

The long nights are coming again when gopd reading should be supplied in plenty to every farm home. Do not forget "The Farmer's Advocate.

Sometimes the grafter feels like singing: "Parliaments come, and parliaments go, but graft goes on forever." No true Canadian can be a grafter.

The greatest short-coming of Canada's fall fairs seems to be a lack of new ideas properly carried ou Surely originality is not dead nor yet exhausted.

Judging from the world-wide campaign against King Alcohol since the war began, this old planet will emerge from the conflict soberer than ever before.

Did you ever stop to think of what it means to be a Canadian? Turn it over in your mind a few times and then never forget that you are a Canadian.

Good seed, thorough cultivation and underdrainage saved the corn crop at Weldwood this year. Now is the time to select good seed, and some drains might be put in next year's corn field this fall.

It would appear that men may be scarcer next year than they have been this, and it is a difficult fall to get work cleared up. However, the man who is ahead this fall will be ahead next year.

It isn't always the man with the hardest hands who makes the most money on the farm. Hard heads are needed as well as hands, and the man who thinks is generally the best manager.

The Kaiser should, by this time, be ready to leave two words out of his epithet directed to the British army. "Kitchener's contemptible little army", should ${ }^{\text {now }}$ now read, even in Kaiser William's estimation: "Kitchener's Army," and before long it will look like Kitchener's Big Army to every Teuton.

## No Third Party Necessary

Canadian politics have developed such a line-up of grafters and charges of graft and corruption from coast to coast as to leave a bad taste in the mouths of all those connected with them and of the electorate as a whole. Things gradually went from bad to worse, until at last indications are that the people are waking up and beginning to deal severe blows at political crookedness. With the need of a clean-up and also with its inauguration comes an agitation for a third party. Third parties have jot, in the past, been very successful in this country, nor do we believe the time is ripe for such a step at the present. Two parties are enough for Canada, a third, under present cond:tions, would only leave another loop-hole and another opportunity for a third set of the same kind of political parasites as those with which the country is already too well supplied. The voice of the people is beginning to be heard. Indications are that large numbers are renouncing partyism as it has been known in Canada, and are exercising their sovereign right of independence at the polls. Many of a certain party leaning must have voted the other way in recent elections, else what has happened could not have transpired. This is what the country needs; independence within the party, exercised by voter and representative. Just so soon as the majority of the people of this country put their independence above party will graft have to go, because no political party could long stay in power unless they did the right thing and carried on the business of the country in the best interests of its people. There seems to be a chance now for honest politicians, and it is to be hoped that the voters of the country will exercise, from now on, their independence and right thinking when elections come round. This will be a surer cure for political ills than could any third party which would eventually become nothing more nor less than increased partyism. Grafting may have flourished to such an extent, like some bad weeds, that it will smother itself. It will if the people say so at the polls.

## The Feeder's Problem This Winter

Present indications are that the problem of the live-stock feeder this winter is going to be one which will test his powers of discernment and his ability to the utmost, if he is to carry his stock and finish off the usual quota for the butchers' block. Prices of by-products, millfeeds and coarse grain are, and will continue through the winter to be, high. Hay is plentiful, but the other coarse feed which goes well with clover and alfalfa, namely, corn for silage purposes, is, taking the Province as a whole, a poor crop, and many silos will not be bulging to their usual extent this year. If a feeder has plenty of alfalfa and clover hay and an abundance of good corn silage he can carry the bulk of his stock through without much difficulty, particularly sheep, cattle and horses, the former and the latter not to receive much silage but plenty of the clover hay, and the silage and clover forms a very good, balanced ration for carrying the bulk of the cattle. The dairy farmer is a little harder hit than the man who depends upon beef, because it is necessary to keep his cows up in their milk flow all the time. Some may find it beneficial this year to buy a little cotton-seed meal to add to the concentrate ration, as it contains a very high percentage of protein, and we believe it will be available relatively cheaper than some of the other protein concentrates. It is not a good feed for pigs, but it could be used for cattle to save other grain for the hogs. Where feed must be bought, good alfalfa hay or choice red clover, cut early and well cured,
will likely be about the best proposition. We have heard of it being purchased this fall for eight dollars a ton at the barn, and, accorting to the price of other feeds, it is well worth it. Feeders, this year, in order to increase the bulk of silage will have to add to it considerable cut straw and cut hay. Many feeders, in an, ordinary season, prefer to add aboit half the bulk of cut straw, as this aids in using up more roughage and is easier on the silage. This year it might be good practice to make the ration half silage and the other half composed of equal parts of hay and cut straw. Straw is going to be scarce on many farms, and some may prefer making a larger proportion of hay, and it will be that much better feed. It will be necessary to plan the feeding so that everything is cleaned up without waste, and cutting, while it causes extra work, will make the feed spin out longer and will be particularly valuable this year in the case of straw, which is none too plentiful. Pigs are heavy grain feeders, but they may be grown more cheaply where pulped mangels or sugar beets are fed. Roots are a small crop this year, but where mangels or sugar beets are available it would be good practice to reserve a few for the growing pige, because this would probatbly save more grain than by using all the mangels for the cattle and other stock. The dairyman, who has a few roots and plenty of skim-milk for his hogs, should be able to get them grown fairly reasonably. Idle horses will, in most cases, have to do with good hay. If they have this, and a good turnip is given them once or twice a day they will do with very little grain. Beef cattle that are to be finished for the block will require grain, but the ration should be so balanced with good silage and cut feed as outlined that e minimum of concentrate feed is required. Clean mangers, clean stables, clean stock and careful feeding will be essential to success this year,

## The Other Side Of The Labor Question

The scarcity of farm labor is even more acute than ever before. For the past few years farmers have experienced trouble in getting enough help to do the farm work properly, but, since the war, in some sections it has been almost impossible to get men. It seems rather strange, but it is none the less a fact, that even in times of most serions labor stringency some farmers have little or no difficulty in getting and keeping men, while others cannot get them nor can they keep them if they do happen to engage them. We are ready to admit, for we know from experience, that a great deal of the labor on the farm-labor market is of an inferior class, not to be depended upon and with no heart and little head to work. On the other hand, however, there are still a number of men available who are good men, willing and able to do valuable work on the farm, With these latter it is a fact that some of them would be good men on some farms and poor men on others, A great deal must be attributed to the way they are handled, or the management exercised by the farmer. No one would expect the farmer to keep his hired men very long, or to make most from their efforts while he had them, who is now harking back to the days when he paid fifteen or twenty dollars a month to his men and thinking that the man should still work for that money, notwithstanding the fact that the price of butter, eggs, beef and bacon has trebled in the intervening time. It is time now for the farmer to change his tactics, as many of the best land-holders in thê country have done, and stop talking about the cost of labor and do some thinking about how to make the laborer more efficient. It is not the wages demanded which should be the basis of hiring a man but the wages actually

The Farmer's Advocate

## AND HOME MAGAZINE.

the leading agricultural journal in the

## Publibed wreety by

THE WHELIAM WELD COMPANY (Limited).
JOHN wELD, Manager
Asents for "The Farmers Advocate and Home Journal,"

## THE FARMER'S ADVOCATE AND HOME MAGAZINE










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-THE FARMER'S ADVOCATE, or

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earned. Some men are cheaper at fifty dollars a month than others at twenty, and what the man earns depends largely upon the way his boss uses his head
and manages the work on the place. Every employer should, when he gets a man of sufficient calibre that he may be developed into a more valuable workman, plan to train that man and to keep him on the farm. It would also be advisable, from the viewpoint of the hired man, that he accept the training and do his best to be a better man for his employer. In the
old days, when wages were fifteen or twenty dollars a month in the summer, the man worked for his
board in the winter, doing a few chores board in the winter, doing a few chores or cutting a bit of wood. At the present time, with wages much higher, the farmer must have work for the man to do in winter, and work which will return a profit sufficient-
ly large to pay him to keep a high-priced man the year round. The time is past for the eight-months and the nine-months man. If good men are to be kept on the farms they must be employed by the year,
and the work must be planned so that they are busy winter and summer. This keeping of the men busy is where many farmers fall down, and where they
show themselves to be inefficient show themselves to be inefficient managers. True,
a certain class of farm laborer does not require much work to keep him busy, and is so independent, with the wages paid at the present time, that the farmer fits on to other fields. But to get back to the man wages are and will continue to be high, and, this being true, it is necessary that the farmer make efficiency
the basis of his hiring and pay the man according as he measures up in this respect, and, if possible, employ married men, giving them a comfortable cottage on the farm-a place which may be made is not necessary to work sixteen hours a day if the best mannagement is exercised and the men handled properly. Farm labor is handled i
fashion in this country. No other class of labor is so badly managed, and there is great room for the man on the land who has to pay high wages at the even more than he is called upon to pay them. Plan the work and then work the plan. While doing it,
also work the man, develop hisinterest, act upon his good suggestions, give him responsibility and have him earn his money in the way he would like to earn it, not as a mere slave but as a helper in the business. Too many men take no interest in their employers' affairs, and very often, we believe, the employer is partly to blame. A kind word now and then and an increase of pay when it is deserved, together with shouldering some of the responsibility upon the man will go farther to develop his interest than anything else, and will make him a long way better hired man than will grumbling about wages, hours and the cost of production. In short, farm labor efficiency comes of good management, and the presentday farmer must make his labor efficient otherwise it will not be worth, to him, the money which he will have to pay for it. It is time to stop talking about high wages and to pay more attention to developing efficiency in the laborer hired. It is possible to develop a man so that he may be more easily worth forty dollars a month at the present time than he was worth fifteen or twenty, years ago, and before he was worked according to the efficiency test.

## Poor Advertisers

There is an old saying that it pays to advertise. Most people believe it, and those who have tried it know that it is true. Every farmer and stockman understands why the manufacturing concern, the big merchandising house, the wholesaler and the retailer advertise. And yet thousands upon thousands, in fact the great mass of farmers and stockmen make absolutely no attempt, through local, district, provincial or national papers, to advertise the products which they produce each year. On one farm there may be five hundred bushels of choice seed wheat which hundreds of farmers in the country round about would be glad to purchase if they knew it were there A small breeder of pure-bred stock may have a colt, a few choice pigs, sheep or calves which he would like to sell, and there are always dozens of people looking for just such stock, and yet he neglects to
advertise. It seems strange how loath rural people are to use printer's ink. Very often the local papers would bring them much more ready sale for many of their products, and the small ad. therein would cost only a trifle. Any pure-bred stock, choice seed of new or well-known varieties would be turned by using a judicious amount of space in a live-stock paper and farm weekly such as "The Farmer's Advo cate. There is room, on most farms, for a great deal of improvement in knowledge of the science of but poor salesmen. It is absolutely necessary, if the best success is to be made of the farm, to let the other fellow know what you have for sale, and the best class of people who are most likely to buy. What merchant would think of stocking his shelves and showcases and not telling the people what they contained? without advertising? It pays them every time and properly carried on on a scale only commensurate ducer of choice farm stock and farm products to proprospective buyers know what he has to offer. It also helps the buyer to get what he wants direct. Judicious
advertising is simply co-operation between the man who has something to sell and the man who desires to purchase.

Consolidation In Rural Schools.

## The Transportation Problem.

rural schools cannot be provided within easy walking distance of one another. If our rural schools are to
be properly graded, they must be centralized, and at a distance. depends upon a proper selection of the central school
site, carefully planned routes and efficient transportation. All of these can be best dealt with
on the spot where consolidation is cont but there are certain principles which must be fol-
lowed. The experience of other provinces and states has shown that wherever transportation of pupils has
been tried it is an admitted success, whether the population is dense or scattered, whether the area is
hilly, as in Massachusetts, or level as on the prairies hilly, as in Massachusetts, or level as on the prairie
It is even a success in winter as in summer, It is even a success in winter as in summer, an
has found methods of overcoming difficulties in has found methods of
varieties of conditions.

## Transportation Routes

Consolidated districts should be formed after geographical principles rather than administrativ districts. Roads, rivers, lakes and mountains which of the school site rather than the geographical choice of the school site rather than the geographical centre
of the square in which many townships are shaped As far as possible, districts or parts of districts shonld be permitted to unite in so far as suitable route along good roads can be arranged.
Generally trustees are empowered by legislation to spend public funds for transporting children who live outside a reasonable walking distance from school Sometimes this is permissive only, and school board are told they may provide public free transportation
as in Colorado. In other states it is as in Colorado. In other states it is compulsory as in Ohio and Missouri. Again the distance for which transportation either may be or must be provide
varies considerably. In Arizona and Colorado varies considerably. In Arizona and Colorado thi
can be provided for pupils living more than one mile can be provided for pupils living more than one mile
from school. Pennsylvania orders that "no punili of abandoned schools shall be required to walk more than $11 / 2$ miles to the new school building." The limit is two miles for Ohio, Kansas, Indiane, Mississippi, Oregon and South Dakota. But whethe optional or compulsory in law, transportation is neces sary in actual fact, whether paid for publicly or private
In practice the school van has a definite route
and children meet the van at the roadside and children meet the van at the roadside at fixed
times. The vans run on a schedule time like times. The vans run on a schedule time like railway trains, except that they are usually more punctual
than trains, and children know when the van leaves than trains, and children know when the van leave
fixed points and when it arrives at school Seldo do the vans call at the doors of the homes. The children must walk to the main road, although some states have limits even for this, and, if the limit is passed, then the van route must be modified to sult In Ohio the limit is one-half mile, in South Dakot five-eighths of a mile. Sometimes great ingenuity is used to arrange the van routes to the best advantage

## Conveyances.

The school van or wagon is the usual form of conveyance except in winter, but other vehicles are used wherever convenient. For example, stean
railways and electric railways are employed whene possible, especially in village or town coyed wheneve Motor cars and automobile busses are used in Mase chusetts and California, and will certainly become more popular as time goes on. If English busses muddy motor busses have proved their practicability an they are bound to be introduced more universally in places where the climate will permit their use all the year round. In Virginia a gasoline launch is used on one route. Indeed, in the State of Washington, according to a statement issued by the State Superinthe aeroplane and the submarine is used to ention excep the aeroplane and the submarine is used to bring boys
and girls to school. This is probably due 'to the scattered population, lack of steam and electric rail roads and its geographical features, which include mountains with deep winter snows, wet weather on the western side, rivers, lakes, ocean and prairies,
Despite all difficulties, they succeed in bringing children to the school, because it does not pay to take the school to the children. Indian ponies, bob-sleds, wagons, row-boats, gasoline launches, railways and auto busses are all drafted into service. Sometimes an auto supersedes the horse-drawn wagon, frequently with a financial saving, as in Whatcorn County where auto only costs $\$ 60$, and gives entire satisfaction without taking so much time. Two motor trucks time. A row boat work of three wagons in half the to twelve years of carries eight children from six cents per school day. But the best method of transportation for any district depends on local conditions. The wagon must be strong, comfortable and warm, with glass coverings to protect the front, sides and
back from wind and storm. Curtains are unsatisfactory because they darken the interior and shut out the landscape as the wagon passes along. Preferably also the driver should be seated inside along with the children, so as to exact proper conduct and conversation on the part of the boys and girls in his
charge. In bad or cold weather the wagons should charge. In bad or cold weather the wagons should
be heated by foot-warmers, such as the Clark type which uses a special coalbrick for heating, but not by stoves or oil heaters, as these might be dangerous.
The usual practice for trustees is to purchase the The usual practice for trustees is to purchase the
wagons and let a contract for drivers and teams. Special wagons for the purpose are now sold by several
large concerns in the United States at a cost of about large concerns in the United States at a cost of about have been much cheaper in Manitoba, ranging from $\$ 125$ to $\$ 240$. At Sarahville anitoba, ranging from wheels and runners cost $\$ 151$ At Roblin where seven vans brought 100 children to school, the longest 'the vans mine miles and the shortest six miles,
town at the blacksmith shops. They are covered with twelve ounce duck. This, when painted, makes them waterproof and also keeps
out the cold winds. The sides are made so that they
whethe
can be rolled up in the summer time, thus making Chem nice and cool. The seats and floors are covered with canvas and carpet and are very comfortable and cosy, For heating purposes we use ordinary
notwarmers, four to a van, and plenty of robes foot-warmers, four to a snan, and plenty or roles.
These keep the children snug and warm on the coldest These keep the chayren snug winter time. The vans and stormiest days farm sleigh in the winter time,
 All wagons, however, should and in winter should be heated. In most cuses the driver, in his contract, undertakes to see
that the footwarmers are in good working condition.

## Public and Private Transportation.

In most cases transportation is free and is provided out of public funds by the trustees. However, both the pubiices, and should be explained.
In the case of public transportation the cost varies according to the length of the route and the method of payment. When the trustese in pravida $\$ 2$ or $\$ 3$ each day that the school is in session, of else a lump sum for the year of about $\$ 500$ or $\$ 600$. Of course, when the iriver provides the the vans are suitable for the school purposes they are not profitable for other uses. The system of public vehicles with payment by contract for driving which includes the driver's. wages and use of teams, horses, robes and warmers is the most widely spread method. and takes the shape of family transportation which is practiced in various forms, In this case the parents are responsible for the transportation of their children, and are either paid by the district or do it at their own expense. Four such methods are in existence
in North Dakota. 1. All pupils in the district receive a fixed amount or each day's attendance, ranging from ten cents a
day in some districts to twenty-five cents in others. day in some districts to twenty-five cents in others. acoording to distance from school, and varies from five cents to twenty-five cents per pupil for each day's County, and are so satisfactory that Superintendent Sherry states that they give less troube than any
of the other systems. In fact he believes that this s. THE system. The advantages over public vans are (a) No child must ride very far to get to school ime after the rig would gave gone, had it been in use.

The expense is less and
the pay is distributed throughout the district. might be mentioned that in this county, two of the consolidated school buildings have living-
upstairs for the teachers to use, if they desire. 3. In some districts parents that live very far
from the school are paid a fixed sum for the family e.g., one family is paid $\$ 5$ a month and another $\$ 2$ while all others are required to bring their children
free of charge. iree of charge.

Parents must bring their children free of charge to public funds. Superintendent West believes in
this system. "We do not pay people for having their this system. "We do not pay people for having their
children educated. If their farms are far from school it is unfortunate, the same as if they are far from the have an idle horse that can be put to this use with very little expense to them, but a system of pay increases taxes greatly. These are the arguments we
use and they have worked. but they would not work everywhere.
There are advantages and objections in all these methods, and it does not matter whether the payment
is a flat rate for attendance or a variable rate according to mileage, or a fixed sum per family, or even depends on the locality and must be worked out from experience. The main point is that transportation must be provided in some way. This is an age of
transportation, so why not let children share our modern methods of travel? The distance between
schools used to be the distance children could be made 0 walk. Now it only depends on the distance a child can be transported in comfort.

The Driver
Satisfaction can only be obtained when competent drivers are employed. Fortunately there has been ful men whose word is respected and obeyed. They should have full authority over the conduct of the get out and walk. Strict discipline must be maintained throughout. the journey. Indeed, it has been better control when riding in a van than in the old method of walking alone to school. In most cases of tobacco and improper language, and to report improper conduct to the teacher. Experience, however, punishment rarely has to be resorted to. The driver, who is usually a farmer living at the end of the route, urnishes a bond for faithful performance of his duty season his wife acts as substitute, and this is found satisfactory in numerous cases. Older schoolboys
or hired men are never satisfactory and cannot be recommended. In most cases, especially when the conveyances belong to the school, children feel the
right of the school to dictate their conduct on the
journey and recognize the authority of the drivers In the West there has been no difficulty in securing
reliable drivers at $\$ 2.50$ to $\$ 3.50$ a day; fears regarding colds ing colds, contagious diseases, poor ventilation and ing, bad language and other evils are banished, and parents know their children are safe. Sometimes the driver pays a bond for faithful performance amounting, in some cases, to a month's payment, or

## Consolidation, Good Roads

The transportation, of course, is easier when the roads are good. It should be remembered, however, that if the roads are good enough for children to wllk over they are passable also for wagons, and that in with dry clothes and feet, while children who walk over wet and muddy roads would have to sit with we feet all day, and, besides, will be tired before beginning Virginia-level, mounta red clay roads, yet two hundred wagons runam and fully over them without breaking down during winter or summer. But, of course, good roads are a asset and consolidation has fairly started a zeal for road building, for nothing stimulates the good-road craze like road travel. The rural mail courier like wise needs good roads, and so improvement of highways becomes a matter of daily conversation. If a school van gets stuck in the mud, the consciences of the farmers are smitten. With good roads the van runs on time. Children rely on it passing their In fact $8.15 \mathrm{a} . \mathrm{m}$. and reaching school at $8.50 \mathrm{a} . \mathrm{m}$ roads and consolidation move together though the condition of roads is only an incidental part of school transportation. Kentucky has excellent macadam roads and few consolidated schools, whereas Ohio with many poor roads in some parts, has an excellent system of consolidated schools. Besides, if the roads are too bad for horses to travel on they certainly are too badufor children.


Eastwood Todd.

## champion Standard-bred stallion at London. Owned by T. D. Elliot \& Son, Bolton

In Manitoba the Public Schonls' Act gives powe to trustees of any consolidated school district to spend money to acquire, improve or make passable any road or roads requiring such action to properly transport is if the municipality has refused or neglected to do the work.

## Success and Popularity of Transportation.

The success of transportation is best seen in the regularity of attendance which is often hetter than in cities where good streets and sidewalks and short distances prevail. In Garfeld School, Whitman County, Washington, the pupils who were transporred
Give miles to school made 96.7 per cent. of attendance while in the city school the percentage was 95 . Both are remarkable records, but surely the transportation achievement is an extraordinary one. In indian the movement is so successhundon and 1,903 school districts have been abandoned and centered in 665 consolidated schoos, ars. In 1914 the State schools in transportation routes, mostly in the northwestern part of the state. This report from 64 drivers for 180 trips each represents a possible of 11,520 trips from 3 to 12 miles each which should have been made. Out of these 11,520 trips only four and one-half trips were missed during the year. Manitoba has a similar record. At some schools not a single trip was missed A. several years, Punctuality is reduced to a fine art; regularity is no and are anxious to go to school. Parents, who them-
selves had to walk to school, now see their chittiren drive to school and are thankful for the convenience. of the children which after all is the main thing to be considered.

Wherever a consolidated school is in operation in Manitoba there is no record of any desire to return to old conditions. Taxpayers and parents would refuse to go back. Those living in the shadow of the consolidated school are glad to see the larger number children, and the greater competition and en thusiasm engendered. The teachers, too, have greater pleasure and encouragement in their work.

Proper appreciation of the advantages of transa discarded and discredited system.

## Nature's Diary <br> \section*{A. P. KLUGH, M. A.}

One of the most characteristic sounds of autumn is the call of the Blue Jay. At no time of year is this species a particularly sient bird except when in the more noticeable than at any other time. Its usual note is a rather harsh scream, certainly not a musical note in itself, and pleasing only because of its association with golden autumn days of bygone years. It has, however, another note, a musical and well-modulated
whistle, which I fancy is attributed by many to some whistle, which I fancy is attributed by many to some
entirely different species of bird. In addition to these two notes of its own it has a fairly extensive vocabulary of no mean ability. Its rendition of as it is a mimic Red-shouldered Hawk, for instance, is so perfect as to often deceive the trained ornithologist.

The Blue Jay has an extensive range; from the Atlantic to the Prairies and from near the Hudson Bay to Texas. Throughout the greater part of this vast range the species is resident, being found both in summer and winter. In the extreme northit is a summer resident only, and I am inclined to think that in all other localities in which the species is resident that the
individuals are not, but that in any given territory the in summer min are present south in the fall, their place being taken by indtydul from farther north. At any rate, in both spring and fall Blue Jays apparently migrating.

The nest of this species is built in trees and bushes, and is constructed of sticks; and lined with herbs, grasses eggs, five in number, are variable in color, usually being clay

The economic status of the Blue Jay is a question which requires very careful discussion, as the wide range
of its menu includes items which render both beneficial and harmful. The it are that it destreys the eggs and young of other and it has been contended that the flarm which it does in this way outweighs the good it does by the consumption of injurious
insects. In order to settle this question the U . S. Biological Survey carefully investigated the food-habits of this species, examining the contents of 292 stomachs, which were collected at an seasons $\mathrm{o}_{1} \mathrm{n}$ showed that the food of the Blue Jay coneists t1 n showed that the food of the Blue Jay consists of 24.3 per cent. of animal matter and 75.7 per cent. of vegetable matter. The animal food is chiefly made and small vertebrates such as fish, salamanders, treefrogs, mice and birds. Because of the statements which have been made to the effect that eggs and young birds are an important item of the food of this species, everything was carefully examined which might by any possibility indicate that birds or eggs had been eaten, but remains of birds were found in only 2 , and the shells of small birds eggs in 3 , of the 292 stomachs. swallowing any portion of the shell, in which case the soft contents would soon disappear from the stomach but in contents would soon disappear substances as dead leaves, bits of plant stems, and rotten wood which are evidently swallowed accidently with insects or other food, are constantly found in bird's stomachs, it does not seem probable that Blue Jays would discriminate against eggshells. To test this matter, four eggs of the House Sparrow were offered to a Jay in captivity. The bird at once seized the eggs and began to eat them, but when any piece of the shell, no matter how small, was dropped, it was at once picked up and swallowed, so that the saells with their membranes Insects are eaten in every month of the

## LIVE STOCK.

## Croup in Calves

Young cattle, varying in age from a few weeks damp pastures and more especially those kept in loiv, near streams of water, and during the fall of the year to a form of inflammation of the throat, characterized, by the formation of a fibrinous exudate or false membrane
usually of a greyish-white color but sometimes b usually of a greyish-white color but sometimes brove,
or yellow, extending over the mucous memb or yellow, extending over the mucous membrane of
the larynx and wind pipe, sometimes the larynx and wind pipe, sometimes over the
posterior portion of the mouth and in some cases the posterior portion of the mouth and in some cases the
bronchial tubes are enlarged.

This condition is generally
rom ordinary catarrhal laryngitis in croup. It differs manner. In laryngitis there is always anll-marked section of muicous, which is discharged an inceasal it is formed. In croup an exudative procuickly as the inflammation of the larynx and wind-pipe attends induces the formation of false membranes which whin in thickness and consistency, some of which are va thick and opaque, while others are quite thin and trane parent so that the mucous membrane can be seen thron hem. Some are so firm in consistence that they ani be detached for a considerable length without tearin while others have little consistency. They vary -in color from a dirty greyish-white to a yellow or yellowibh brown. Is an animal be examined post-mortem, after pipe and larynx will be found to be days, the wind iderable distance, in some cases be lined for a conin others the whole circumference will pe corty, while the false membrane, forming a complete tube or cylind Symptoms.-The first symptoms generally notice are a hoarse cough and discharge of frothy saliva froin the mouth, and of mucous from the nostrils; the animal is unthrifty, has some difficulty in swallowing; some times swellings appear just behind the jaw bone on one or both sides, also in the space between the jaw bone (the sub-maxillary space). These symptoms ar usuaily succeeded by increased difficulty in breathing respiration being accompanied by a crowing noise and paroxysms. In other cases the spasmodic affection of the larynx and difficult breathing occur without any premonitory sym-
ptoms. The pulse, ptoms. The pulse the commencement, be comes more frequent
feeble and indistinc as the disease ad coughing grow more and more troublesome and violent paroxysm pecially if the animal be subjected to any sudden exertion or ex. citement. In the course of two or three days brane are coushed up expectoration becomes more profuse; the false membrane, which never becomes organoosened and detached by a fluid poured from until it is finally separated and cast off, If the case progresses
favorably this membrane is not again formed, the suppuration process terminating in the inflammatory
the fact that sulphur can cause poisoning. Deaders wit inflammation of the mucus membrane, collapse, and death have resulted from giving a handful a day prosults are misled into an they do not get ba than the too cautious vet For the horse, as
one to four ounces; cattle, three to six mild aperient and pigs, half to one ounce. Finlay Dunces; sheep
alterative dose as the dictum therefore entirely disagrees with what his been said in this article on alterative doses The

Some men find fault with the Agricultural College farm. You cannot build a graduates are failures on the material; you cannot a good wall from poor seed on infertile soil; neither can an agricultural college owever, good farmer out of some men. It does Remember, when prone to criticize, that no one man knows it all.

Treatment. -Of course preventivetreatment should be observed. This consists in providing good shelter wet, cold weather, in addition to sean night and during in which they are kept are not damp. When the disease is noticed, if the symptoms are very breathing very difficult, and the noise loud, there is immediate danger from suffocation and an operation known as Tracheotomy, which consists in inserting a tube into the larynx, and can be performed only by a veterinarian, is necessary. Hence the services of a veterinarian should be promptly procured. It is
essential in every severe case that air be admitted early, as, should the operation be delayed, the animal will soon succumb to suffocation, or a condition of blood poisoning caused by an overloading of the blood are not so severe, the nostrils should be steamptoms several hours consecutively, by holding the head over a pot of steaming water or other device, and it is well solution of nitrate of silver carbolic acid or iodine. A ounce of distilled water, should be applied directly to the diseased mucous membrane. This can be done speculum, a clevis, or other device, and app use of a solution with a feather, care being taken applying the to a greater surface than that upon which its action
twice daily, so long as required. A little, say half a teaspoonful, of nitrate or chlorate of potassium should be given in drinking water and, if the patient be constipated, a little raw inseed, or castor on should
given. If prostration be very marked, a stimulant,
as a tablespoonful of whiskey in a little cold water should be given every few hours. Any fluids given by the mouth must be very carefully administered, as, on too rapidly some will pass down the windpipe and
produce fatal complications. It must not be forgotten that the patient must be kept in a warm, dry building, well ventilated and. if the weather be cold the body
should be clothed.

## Breeding Shorthorns to Intensify Milk Production.

A panoramic view of the Shorthorn industry on the American continent discloses a turning point. diminishing and the call to breed in sympathy with smaller holdings is ever increasing in its dimensions, Breeders have entered the dual-purpose enterprise recognizing a future in this strain. A few breeders in the eastern states, there are, who stood by the helm through adversity, and made milk records with Shorthorns long belore At first their endeavors passed almost unnoticed until the beef Shorthorn had become so beefy noticed until the farmers on moderate sized farms revolted, some going into dairying and the remainder forming the inevitable support that has meant smoother sailing for these few breeders, who first directed their attention towards breeding for the dual-purpose qualities.

Among these was one Chas. Otis, a banker in Clevetand, Ohio, and a breeder of dual-purpose Shorthorns on at Willowby, Ohio. While his father was a big steel manufacturer and himself now a banker well known in Cleveland, he has ever been interested in agriculture, the first nucleus of which was instilled into him when spending four years of his early life on a Colorado ranch. To the question, "Why did you start dual-purpose Shorthorn breeding?" he stated quite modestly, "Simply contribute something to agriculture and yet make it contribute something to agricult,

Those who know him state that he will stop discussing stocks and bonds with the least excuse to talk located, and through which runs quite a large coulee bottomed with nutritious blue grass, he has had at one time as many as 128 head of pure-bred Shorthorns of dual-purpose breeding. They are not simply a collection of fairly good milking Shorthorns brought together within the past few years, but Shorthorns with consistent dual-purpose breeding for perhaps 30 or 40 years. They are direct descendants of the Innis \& deavors. Two years ago the latter firm dissolved deavors. Two years ago the latter firm dissolved partnership and now Chas. Otis in Ohio and L. D. May in Pennsylvania are carrying on breeding operations rom the foundation constructed in pioneer days. In dual-purpose Shorthorn bulls, Joe Johnsô̂, which individual to-day has over 75 descendants with records above 8,000 pounds in a year, and 27 with records over 10,000 pounds. His sire had a great reputation as a getter of heavy milkers. One of Joe Johnson's choicest granddaughters was Margaretta Clay which produced for eight years an average of 8,426 pounds. She was
mated with the imported Duke Buttercup which commated with the imported Duke Buttercup which com-
bination gave Cyrus Clay, in 1895. Duke Buttercup was a great sire of record cows, having to his credit pounds. This Cyrus Clay and 7,800 pounds to 10,000 pounds. This Cyrus Clay and another great son, the breeding which permeates and fairly saturates the present Otis herd at Willowby. It was the pioneer work of Innis, May and Otis which developed the milking propensities. These breeders were pioneers in keeping records, and owing to the difficulty of obtaining good out-n-breeding was performed. Some of the stock approached more nearly to the dairy type in their search moderate production is sought with retention of fair beef proclivities
Tincingly that the serves to clarify the situation conmiscellaneous but miscellaneous but definite, that it is not a collection as
the true meaning of the word indicates, but rather the result of constructive work to make it truly dual-purpose. Clay, is a seven-year-old, and a half-brother to the world's record Shorthorn cow, Rose of Glenside, 18,075 pounds of milk, 735 pounds of butter. A side view shows
dairy . conformation. This is evident, particularly at his hind quarter and accentuăted by his only moderate feshing. A back view shows up more of the dualpurpose type, a moderately broad shoulder and square quarters. The impression given was that he leans to the many Shorthorn breeders advocate. On mentioning this obtained by a bull inheriting milking strains being used on cows of good conformation. My experience more from the Shorthorns. will inherit conformation have had a good milking dam to produce milking heifers." strong-boned and good-framed youngsters quite large, on skimmed milk. In them the dairy type was not In the field rather a leaning to the beef conformation. of these near the barn and others in the coulee pasture. The cows are large, deep-hearted types, but on the whole with much more variation than observed on the
late J. J. Hill's farm at St. Paul. Some of them showed in a fairly good degree of fleshing, while others were
the much of the dairy order. There, grazing was 60 cows all with many years of consistent endeavor, and many of them with over 8,000 pounds per year, credit. Invariably with notable achievements to their were not what could be called dual-purpose pound as they were in could be called dual-purpose in type, more slender in the neck and were wedge shaped to quite a degree. Mr. Otis now realizes that record 10,000 carried too far and is breeding for the 7,000 to pact, yet of that that has a large frame and is more com Jewel, as shown in the photograph, very much approaches the type he is seeking to breed to. She is a order, yet her milk record is 10,887 and during the


Part of the Otis HerdYon'Blue'Grass.
year she made her record she would have made good beef at any stage of her milking period. Another cow Which is very much Jewel's equal is Braemar Beauty, a with a record ower by James Brown, Norval, Ont., of this type, some 9,000 pounds. There are many others International this year

After viewing the whole herd in this establishment, ne of the best on the American continent and one wher in partnership with L. D. May in 1913 and 1914 won prizes at Vermont, Syracuse and the National Dairy Srizes at vermont, Syracuse and the various difficulties in breeding, and the future of the dual-purpose breed were discussed. The answers to the following questions are from one who has had a wide experience with Shorthorns. "Do


Jewel, 10,887-lb. Cow, First Prize for Cows in Milk at the International, 1911 She is regarded as one of the best specimens in the herd, and $\begin{gathered}\text { qualities and milk production. }\end{gathered}$
you prefer the bull and cows uniform in conformation being moderately between the beef and dairy type?' It is hard to breed a uniform type, our ancestors have been at it before us for generations and the idea is that it is easier to get desired results with bulls cows, neither of them being the opposite extremes. "Under what conditions is the dual-purpose suitable?" "Practically in all conditions, but more so when farmers have considerable roughage to feed and turn into milk and meat, no other breed will pay more money under these circumstances." "What brief advice would you give a beginner in the busias but when you have breed up a irst-class herd suit your herd keep him and his heifers and use him for all he is worth. Don't le money tempt the heifers away from you, then mate his
heifers judiciously with a bull of the same family not near enough related to in-breed." "What work have you done to show that dual-purpose cows will produce good
steers?" "We have to-day a bull calf out of a 11,000 pound cow which we have steered and are rearing for a show steer. He weighs over 500 pounds at five months old, which is as good as the beef breeders can do. We have also an excellent grade steer out of a grade dualpurpose cow the milking propensities " "What is the difficulty met with in dual-purpose Shorthorn breeding?" "The difficulty is with the breeder being able to combine the milk qualities judiciously with the beef qualities, not fostering one too much to the detriment of the other." After strolling throughout every nook and corner of his establishment, and discussing many phases of the subject not here given, the general impression is that there are many true dual-purpose types in the herd, but there are many not dual-purpose, also that there are many cows and ympathy with the ideal of the sympathy with the ideal of the writer, with large capacity towards beef conformation, and there are cows that appear too trenuously bred for mille production Looking back into the pedigrees with generations of
breeding for milk one finds the reat producers intelligently ne bred. There are also cows ithout these ancestral produchould pick out the cows in the hould pick out the cows in the found that they are thoseleaning towards the dairy type and which have approached more nearly the dairy Shorthorn not only dual-purpose appearance invariably are not backed so much by this. Clay strain, the production of many gelerations. They quite often have an introduction of it but are not so intensely bred. The summary of this evidence is that too much emphasis was laid on production in the earlier in sympathy. The demand of the American public no doubt encouraged this tendency since the call-was for larger milk yields without sufficient emphasis being given to the maintenance of a fairly good meat carcass But now the fault is being rectified, the association of more of the beef type encouraged, and contentment with lower yields is being realized as necessary. Even yet the American farmers seeking the dual-purpose cow are clamoring for records. They nvariably ask, "What production has she got, what is
the production of her dam. the production of her dam. and is her sire bred for proheed to the more sane inquiry as to beef as well as her the Canadian farmers make this same mistake of seeking or more milk and more beefing ability of the herd Stockmen might as well from the first realize that more the intention is to put steers on the market it must be something better than a dairy steer, and that a fair dual-purpose animal in the herd is desirable.
By the courtesy of $\mathbf{M r}$. Otis the opportunity was given to see the result of
generations of line breeding generations of line breeding or almost in-breeding without
the introduction of new
nels bred intensely in milk blood. These few animals bred intensely in milk production with the blood concentrated a farm, but clearly indicated that intensifying can be carried too far. They were constitutionless, sway-back, scrawny cows that one would call ideal scrubs. The thought permeates one that if such was the resuit of in-breeding: no wonder breeders throughout the world recognized that a herd, if line bred, needs an infusion of new disaster. While all the great breeders in founding breeds through pioneer days were staunch advocates, and in practice supported the idea of inbreeding, yet it was found necessary to incorporate new blood from time to time. This case of in-breeding on the Otis establishment is not to his discredit, but rather the living example of a few mistakes made

## Founded

in his endeavors and by his predecessors. Any pedigree of almost any individual in the herd will show an attempt to breed in accordance with the known natural laws to make improvement in milking qualities, but these
known laws are so meagre that one may readily confront known laws are so
forces indefinable.

Breeders while not altogether agreeing' with some of $\mathbf{M r}$. Otis' ideas admire the staunch adherence of his individual conviction concerning the place of the dualpurpose and give credit for that which he and his prepurpose animal, care must be taken not to sacrifice one quality in order to gain another.

## Our Scottish Letter

Editor "Tar Farmer's Advocate"
We have begun to organize British agriculture. At least we made a start this week in Glasgow. That
vigorous individual, Mr. Hughes, from Australia, vigorous individual, Mr. Hughes, from Australia,
has wakened up the people of this country, and an has wakened up the people of this country, and an
effort is being made to get ready for an industrial coneffort is being made to get ready for an industrial con-
flict which everybody says is to take place after the flict which everybody says is to take place after the
War. For our own part the main thing has always seemed to us to be to finish the War. The end does not seem in sight, although the action of Roumania
has certainly encouraged a buoyancy of spirit throughout the Entente and a corresponding depression among the Central Powers. It is, at anyrate, difficult to see how Turkey can escape being crushed, and no one will be sorry should the crushing be of a complete and irretrievable character. Greece would seem to be moving in favor of co-operation with the Entente, and, in any case, the fate of Bulgaria would seem to be fixed. But what a heterogeneous crowd these ever weld together may baffe statesmanship. The big question will be, who is to get Constantinople? question is raised at the conclusion of the War. All this however, is away from my text. We are organizing agriculture so that after the War this country may never again run the risks she has recently run of
starvation. We have never been within sight of that starvation. We have never been within sight of that
because our Navy has kept the seas, and better still, because our Navy has kept the seas, and better still, has discovered means whereby the menace of the
German submarine has been turned to the confusion of the Teuton. If, however, the German confusion of the Teuton. If, however, the German had been
better equipped with submarines and less hampere by fear of compromising himself with neutrals, he might have put us into a fix, and given the people of these islands a taste of War, which, dreadful as the times are, they have so far escaped.
A great meeting was held in Glasgow this week to inaugurate a campaign for the setting of agricul-
ture on a surer foundation than that on which it has rested during the past seventy years. When such questions are raised it is inevitable that there will be echoes of fiscal controversies. The effect of the Anti-Corn L.aw legislation of 1846 was far-reaching. In the opinion of many at the time it seemed to threaten destruction to Agriculture. But before many Britain was then, as a nation, busily engaged in bolstering up the Turk. It was a costly business for us. This mess was hardly cleared up when the
Indian Mutiny broke out, and only a few years after it had been settled the American War of Secession raged for four eventful years, 1861 to 1865. Then came the European conflicts which remodelled the map of Southern Europe, when Italy was born and
Denmark was robbed of her fairest provinces Denmark was robbed of her fairest provinces by
Prussia. No sooner had these calamities been in a sort of a way repaired and settlements of a kind achieved, than another dreadful War broke out-the the Franco-Prussian War of 1870. It was short and sharp, and out of it the German Empire was born. War, and in 1878 the Treaty of Berlin confirmed the fruits of that conflict by the creation of those Balkan kingdoms on which the eyes of Europe are at this moment again centered. While Europe and America were thus for about thirty years more or
less cursed with the scourge of War and its baleful afree efrects, Great Britan was left comparatively of the profits which War Sring reaped a large share the prosperity of these sixties and seventies her Agripolicy of Free Imports were not experienced and in spite of her open ports her Agriculture prospered
greatly. But the eighties tried the premier in an unwonted degree, and while the country generally prospered its agriculture decayed. The nineties saw century the oversea competition had begun to spend century the oversea competition had begun to spend
itself. The virgin soils of the great American Con-
tinent had been denuded tefore the first decade of the twentieth century had expired there were indications that British Agriculture had passed its nadir and was gradually going up-
ward. the upward movement, and at the present time, with the exception of dairy farming, all branches of agri-
culture are prosperous as they have not been for thirty culture are prosperous as they have not been for thirty
years. The vastly enhanced years. The vastly ensanced cost of production in
wages, imported foods, machinery, etc., has robbed the dairy farmer of any excess profits, and there is
small danger of the Chancellor of the Exchequer making the nation rich by what he is likely to get out of the man who is a milk producer.
upon the view of the politician and statesman. He
has made the discovery, through the hard logic of purchared it is possible for national prosperity to be purchased at too high a price, when that price is a that the Agriculture. True, it is a great matter a greater matter that the land of the country should be kept under cultivation. Unless this be done people cannot live on the land. If people cannot live on the land the cities cannot be replenished with healthy citizens, and when War breaks out The is some risk of a famine in the island empire. the problem is how to maintain a prosperous agriculture, to grow the utmost possible from the soil, and
thus to furnish the defenders of the country with food for man and beast. We are certainly up against it, and at all costs it is agreed that agricultural prosperity and national prosperity are synonyms.
Many questions connected with land holding call for adjustment. It is difficult for dwellers in a new country like Canada, where there is unlimited room tenure in a country like Great Britain. When settlers tenure in a country like Great Britain. When settlers power possessed by dand of Great Britain learn the they are monwealths and Dominions the interests of the people are paramount, and the will of the people prooks no impediment. Laws which do not make for the cultivation of the soil, which actually make it more profitable not to cultivate the soil, are simply swept away. In this country at the present time the Government is calling on farmers to produce more food, and yet is compelled to look on helplessly while thous-
ands of sheep are being cleared off a good grazing because the proprietor insists on certain conditions
or the self-binder extremely difficult
the old-fashioned hook or scythe can alone the unfailing source of autumn labest have Lothians they have been plainly informed that
room will be more to be desired than their The feeling is that it is shameful to see ablo men coming to the places vacated by our able-b men, either voluntarily or under the provisions of Military Serviee Act.
remely thriving way of all kinds are in an re increasingly way. British Holstein-Friesian Inverness, was dispersed a The herd at Cradlo females were sold at an average price of Among these were 23 calves which of f77 15 . of $£ 396 \mathrm{~s}$. 3d. apiece. At the Stirling market week the highest price was made by a Hol Friesian bullock. The famous Shorthorn herd of Righ Honorable A. J. Balfour M. P., at Whit hame, in East Lothian, was dispersed this Sixty-eight head, including a large number of
made the fine average of 692 ss . 5 d . The made the fine average of 6926 s . 5 d . The hig
price was 370 guineas paid for a Goldie price was 370 guineas paid for a Goldie cow, and heifer calf made 220 guineas. There was ma
buying on pedigree, and in some instances prices buying on pedigree, and in some instances prices lo recorded for all breeds and croswing, and the good weather during the period of the a record. y helped trade. the period of the sales undou pouring, wet day. In addition to that the on has been such as has encouraged that the weat of the turnip crop, and this has reacted favem on the demand for lambs, which, to a very large et
are fed on turnips. At the Corst are fed on turnips. At the Corston sale of shire shearling rams, head made an averaye o $\mathrm{f}_{\mathrm{fl}} 11$ 6s. 1d. T. A. Buttar flock is well known in
Canada, and there il better flock of shires in Great Britaí
The breed, however, The breed, however, not extending in Soar
land, both the Oxtor land, both the oxrore
Down and the Sufffll
fairly outdistan fairly outdistancing from the Oxford ram the half-bred ewe, Leicester got by a Cheviot ewe, is
bigger than the lamb the Shropshire sire of the same kind of ewi recovered ground in Sis recovered ground in
tland. As the sire oft mutton this horni blackfaced breed is . rivalled. They have reputation of being s
what slow feeders, perhaps that may be of the pure-bred an
but when the Suffol but when the Suffolk
mated with a Cheviot
Junior and grand champion Aberdeen-Ankus Farm 13th.
being observed which are designed to preserve game. No frictions, and, as a result weare to witness a desolation. The legislation of this country must do something to prevent such a misuse of land. Wherever $r$ the interests of sport and the interests of agriculture conflict, the in-
terests of sport must be sacrificed past, it has been the other way about. Agriculture has been subordinate to sport. We want to change all this. The principle must be recognized and acted on-that community is the most important member of the community. His industry cannot be handicapped, and he must himself be thoroughly equipped for his iife-work. The indications are that in spite of the
dread perils, which we have just escaped dread perils, which we have just escaped, if we have improvements in land legislation will have to be fought for inch by inch. A bill is at present befor Its object is to prevent Acquisition of Land Bill the nation has incurred in equipping land, being confiscated to the landowner at the conclusion of the War. The motive of the measure is wholly in the na tional interest, yet in its passage through the Houses
of Parliament its provisions by inch-and any progress has been fought inch point of the bayonet. progress has been gained at the omens are that the point of the bayonet. The omens are that the organi-
zation of Agriculture has not been entered upon ment too soon, and those who have set the wheels io motion will require to work with a will, and exercis of the dove. the serpent alongside the harmlessness

Harvest has come much sooner than was antici-
pated, August proved a month of alternating sunshine pated, August proved a month of alternating sunshine and cereal crops benefited greatly. In some faratts
and and weather was much too dry for the green crops,
and. on heavy land the lack of moisture was keenly
felill withal felt. Still, withal, things have greatly was keenly, Potatoes will be avery prospect of a bountiful harvest. all kinds are in good bloom, and the Lammas floods which came a month late, have greatly freshened
the turnip break. These floods which con the turnip break. These floods which came ${ }^{2}$ week
ago, have flattened the grain crops and made
ago, have flattened the grain crops and made the work
scores in the good opinion of the butcher, to whom the last resort, the appeal as to the value of bree trade there is ast be made. In the Clydesdale ho hired ahead as far as the season of 1918 . Whateverele may be depressed, the Clydesdale horse trade in th home market has been extremely - brisk. There has been an unfortunately high death-rate among foal this year, joint-ill being a frequent cause.

Scotland Yet.

## THE FARM.

## A Little Trip.

This week I enjoyed a
This week I enjoyed a leisurely automobile trip that with a man who has a due regard for the speed limits and has no foolish notion about establishing records, I had a chance to see something of the country, The speedometer showed that we went at the rate of eighteen miles an hour, which was quite fast enougi never man who usually travels behind a horse that never shows signs of speed except when we are meet of the right kind, for she wants to go backwards or sideways instead of straight ahead. But, as I was saying, we travelled at a speed that enabled me to
look about in comfort. The first my attention was the parched condition of the country. After the long drouth the fields were grey rather than color as the weather-bields were of about the same noticeable that where fall wheat was sown only the many places the knolls and higher ghound did not show a blade of growth. Most of the farmers in the district didn't see one decent-sized hadready threshed, but 1 some of them may have put part of their straw back some of them may have put part of their straw back
good-sized stacks, so that this year's little jags of straw probably indicates a ilkman, and only in the district where we saw him were milk cans on the stands beside the gates. Still, it was int inesting to see even in the neighborhood of a cheese factory. All the people who are in the dairying business are sild that some of the villages do not get enough butter for home consumption, but are obliged to buy from distant creameries.

When we reached Forest, to attend the meeting When we head been invited, we were taken over by an entertaining committee which took everyone at the meeting of the town and the surrounding country. I sw the canning factory long enough to see that it mill I saw some bales of yellow stuff in a shed which I was told was flax in some stage of preparation. My recollections of this part of the trip are, confined to a blurred sight of houses, have not yet while travelling at the rate of forty miles an hour I do not feel that I saw much of Forest. my next we all got out and ate peaches while admiring the trees that, in many cases, were so loaded that the ends of the branches rested on the ground. Then we whirled to another peach orchard and another peach
orchard, and another peach orchard, until I thought

I had time was nothing but peaches in the world. much of the fruit was blackened by some kind of rust or ink spot; while in others it was clean and glowing with the true peach colors. On asking about this was told that the clean orchards were the ones in which the spraying had been properly done, but, done the unable to meet any, of the men, who had just what is meant by proper spraying. It was gratifying to learn that although they have such an excellent crop of peaches in the Lambton District there is no danger haat any of it will be wasted, and that the orchardists are getting good prices for their fruit.
While eating more and still more of the splendidly flavored peaches they raise in this district I heard rumors of a musk-melon farm in the neighborhood, and my mouth watered, but we
it in one of our bursts of speed.

After our mad rush through the peach orchards we whizzed along a fine, graveller road between prosperous looking farms until we finally were stopped by the
waters of Lake Huron. Then for some miles we speeded on the packed sand at the edge of the water while the cold wind from the lake whistled around us. presently came out on Kettle Point. This is the real show place of the district, for it has a rock formation which no scientist has satisfactorily explained. There the waters wear it away they constantly uncover
and are of all sizes. 1 understand that because these stones resembled over-turned sugar kettles the early settlers gave the place the name of Kettle Point. Just how these round balls were formed is a matter was spute. According to one theory, when the shaie afterwards the filtration of water filled these bubble spaces with limestone. This would account for the roundness of the formations. But I saw where one were bent hack as if pushed by a hard substance, such as the stone that forms the kettles. It seems to me that gas would be likely to spread between the layers of shale instead of bending them and retaining its bubble form. One member of the party gave it as his opinion that the round stones had grown in the shale just like mushrooms, and I am not sure but his
guess was just as good as any other. After guess was just as good as any other. After we had
seen all we wanted of the kettles we were whirled away through the country again and taken to a high place from which we got a glorious view of Likh place from which we got a glorious view on Johnson's farm, which lay on the flats beneath. Then we whirled wildly back to Forest and straight through it to still another peach farm where the fruit was all clean and well colored. Once more I was told that this was due to the fact that the spraying had been done right, but the man who had done the spraying was not about and. couldnt ind out just how he light that travelled ahead of us. Then, as Mr. Pepys light that travelled ahead of us. Then, as Mr. Pepys
would say-"home and to bed." ld say- home and to bed.

## Harvesting and Storing the Root Crop.

The past season has been a very unfavorable one for the root crop, consequently in many sections the task of harvesting the crop will be a light one this fall. However, every so that there will be the least possible waste. At the time when mangels should have been sown the rain prepared. Some farmers were successful in getting in a small acreage of this valuable crop, while others made no attempt at sowing mangels but increased the acre-
ge of turnips. When it was time to sow turnips a dry spell had set in and the stand of crop is rather unsatisfactory. All through the summer, roots require make continuous growth. This was not forthcoming in sufficient quantity and harvest time finds the mangels very much below turnips to increase in bulk. A vast difference s often noticed after the first cool weather sets in.
Many leave the turnips in the field until the last of October, or even the first week in November. This may be all right in some districts, but taking the country over, turnip harvest commences shortly after the middle
of October, if the weather is favorable. With suitable weather the yield of turnips may increase several hundred pounds per acre between now and the date of harvest. The nature of mangels is a sittle different from that of turnips. They are not so hardy, con-
sequently may be injured by the first frost of the season. True, they will stand considerably lower temperature before being pulled than after, as the leaves protect part from freezing and possibly aids in withdrawing the frost from the upper part of the mangel should it
happen to be slightly frozen. The time of harvesting always depends on the location, and nature of the season. Some years frosts occur two weeks earlier than
others. However, it is risky delaying harvesting much after the first week in October.

## Harvesting Mangels

A common practice in taking up mangels and feeding beets is to pull them by hand, twist the tops off,
and throw two or four rows together for convenvenience in loading. If the crown of the mangel is injured it bleeds more or less and rotting may commence from
this injury. By twisting or jerking the tops off this injury is more or less avoided, but, pulling an acre or two of mangels is a very laborious task and likely to
be hard on both hands and back. It usually takes a considerable wrench to remove the leaves from a heavily topped mangel. Some prefer to gather the leaves
in the hand and with a quick jerk break them over the in the hand and with a quick jerk break them over the index finger. The weight of the mangel is sufficient the hand. There is a knack in doing this; naturally
some are more adept at it than others. Another method of removing the tops is to pull the mangels by hand and top with a knife. This is a very satisfactory method, mentioned. Mangels that are deep rooted are very difficult to pull, in fact, it is almost impossible to pull along one side of the row, to the depth of five or six inches, considerably lightens the work. However,
the deep-rooted varieties are not so commonly grown to-day as they were a few years ago. The globe type of mangels are heavy yiilders and grow pr
out of the ground, thus facilitating harvesting.
We have seen mangels topped with a hoe and then
pulled with a V-shaped hook. This makes the work pulled with a V-shaped hook. This makes the work
much easier on the back. True, the mangels bled a
little at the
removed as clean as when topped by hand. The
mangels seem to keep all right in storage when topped mangels seem this manner. Having proven by experience that cutting the mangel injures it but little, some growers have resorted to handling the crop in much same manner as they do turnips; that is, topping wround This system may be all right for the shallow-rooted varieties, but certainly will not work with those which grow more into the ground. Only what can be handled in the day should be pulled and topped, as it takes but whenoit is lying on the ground surface.

## Turnips.

At one time the turnip crop was pulled by hand and topped with a knife, however, this practice has been generally abandoned and the custom of topping with a hoe and harrowing the roots out of the ground has been substituted. The turnip being firm is very ittle injured by the harrows, and cutting the top of appears out and then use a knife to trim them. As it takes several degrees of frost to injure this crop, it may be several degrees of frost to injure this crop, it may be
topped a day or two before being harrowed out. This gives the tops a chance to wilt somewhat, which makes the crop easier to handle. The common diamond-toothed harrow is quite satisfactory for removing the turnips from the ground, although some growers prefer to fasten a stick of timber to the front of the harrow: In either case the best work is done by making the team move lively. pulls out quite a few and loosens others; by coming pulls out quite a few and loosens others, by coming will be left in the ground. If the ground is not too wet very little dirt will cling to the turnips. If they are a little muddy the dirt can usually be removed by

There is a diversity of opinion as to whether loading by hand or loading with a fork is the quicker, some However, there are others who are adept at picking turnips with a three or four-tined fork. This latter method certainly is much easier than the former on the back. When only a narrow strip is cleared at a time on each side of the wagon, a man with a longhandled fork does not have to move or stoop very much. The turnips are easily dislodged by striking the fork on the side of the wagon box. The

Many root cellars are below the driveway and the roots can be shovelled directly from the wagon to the storage place. unloading, a slatted chute is necessary order to keep as much dirt as possible from going into the cellar. When using a large fork, the chute is not so necessary although it is advisable to use it. Where the field is handy to the storage place, roots have been drawn in dump carts; the cart being driven This lessens the work of unloading, but the system would not be feasible if there was a long distance to draw, unless the cart was of extra large size. Manure spreaders have been used for hauling roots. The beater $t$ the back of the spreader is not dificuit to remove and the end board is raised and the when unloading, the end board is raised and the revolving a load can be put off in about a minute. Most spreaders are high enough to allow for a chute to be put at the back for the turnips to roll over, and so remove a large
amount of the dirt which has a tendency to cling to
the roots.

The acreage devoted to this crop is small. Carrots are more tedious to handle than the larger roots. However, they have fairly high feeding value and are they grow into the ground rather than out of it, topping they grow into the ground rather than out of it, topping
with the hoe and harrowing them out is not satio wactory. It is necessary to pull by hand and top with a knife. If they are firmly set in the ground the work may be facilitated by using the plow to loosen them, The storing of this crop is similar to that of the other root crops.

## Storage Place for Roots.

The ideal in the keeping of roots is to have them as cool as possible without reaching the freezing point. There is more tendency for decay to set in if the of the stable is usually partitioned off for a root-house The heat from the stock keeps the frost out, but in mild weather very often makes it too hot, and untess the roots are particularly sound there will be considerable waste, especially at the place where the roots are dropped. In fact, this place should be cleaned out soon after the crop is harvested. There is always a certain amount of leaves and dirt carried in with the roots; this starts heating, and subsequently rotting of the roots which may spread througrout the entire storage place. There is requently more or less odor claim that it is this odor warm cellar. Some dairymen the cattle eating roots. A root cellar is a difficult place to ventilate, consequently the timbers above $t$ are usually short-lived. For this reason the space underneath the approach to the barn is utilized by many farmers as a root cellar. Some build the walls of timber, but a more permanent structure is to make them of concrete with a concrete roof. If the roo is flat it is necessary to reinforce it with steel rails and wire, and if the span is wide it may be advisable the concrete walls about twelve inches thick. Unless protected in some way there is danger of frost pene protected in some way there is danger of irost peneadvisable to either bank the outside with earth or else line the inside with lumber. If there is only a slat partition between the stable and the root cellar there will be little danger of frost. However, many prefer to have a solid wall with only a door leading to the cellar. Quite a number are building concrete root cellars entirely separate from the stable. It is customary to sink them in the ground a considerable distance and then cover them with earth so that they will be asisear is greater difficulty in filling, unless so arranged that the team can be driven over top. Unless a covered passageway leads from the cellar to the stable the labor of feeding is increased. The nearer the root cellar is to the place of feeding the better.

It frequently happens that a permanent root cellar ase pitting may be resorted to. Turnips keep very well in a pit that is frost proof and has a fair amount of ventilation. A fairly high, dry piece of land should be' selected for the pit. About five feet is considere wide enough at the bottom and the turnips can be tapered to the centre, possibly firs and high. An ample covering or stra is put on. The exact thickness thickness of earth is put severeness of the winter depending on exposure be taken to put in a ventilato wevery ten ar welve feet. An ordinary field tile wil serve the purpose. When winter sets in this can be
filled with straw to keep the snow from blowing in. It
is advisable to examine the turnips in the pit occasion-
ally. If they are too hot the ventilators should be
left . left open for a while, but if there is a sign of frost the pit can be protected with stable manure. Many tons of pitted turnips are spoiled every year. through care about ninety per cent. water they have mangels high feeding value. There is something have fairly which keeps the animal system in good condition Both crops entail considerable labor in the growing and harvesting of them, but they are considered by both
stockmen and dairymen to be valuable crops stockmen and dairymen to be valuable crops to grow.

## Make the Barnyard Clean

## Editor "The Farmer's Advocat

Most barnyards, in spring and fall, are disgrace fully dirty. We apologize for their condition every
time a friend has to walk through their miry depths but most of us make no serious effort miry depths; their condition. We just take it for to improv barnyards always will be dirty, even as they alway have been. On our little farm, however, we are woin to make a serious effort this fall to make the barn yard clean. Here is the plan we will follow. the same plan with excellent results a season followed it is good.
Our first move will be to put eave troughs on the barn, and see that water from the roof is carried away from the yard; enough rain falls direct from the skies to make a yard muddy without concentracting what all in the yard is to be carried away. What rain does ial in the yard is to be carried away through a system
of underdrainage. Three-inch tile will be laid at intervals of ten feet, the laterals connecting with a four-inch main which will lead directly into an oper water course in the adjoining meadow. On top of the tile and then we will fill the gravel to protect desired with field stone. With us, at loast, lhis stoning will represent no extra work, as a gravelly field adjoining the buildings is to be stoned this fall Then we will top off the stones with gravel. This
The the will give us ideal ofrainage, and the water problem and with it the mud problem, will be almost solved. to But there must be no litter around the yard and several months' supply of manure around it cannot be kept clean no matter how ideal the drainage
may be. Manure from our stables is to be carried to the fields at short, regular intervals all through to the fields at short, regular intervals all through
the winter, thus conserving its fertilizing value and keeping the yard clean.
An idea that is really good is the cement platform
around the stable door. I have seen these platformm eight or ten feet square, on several dairy farms in and the amount of dirt that is left on the por-mats, instead of being carried into the stable is sure torm gratifying to the careful dairy farmer. Such a com bination of stone, gravel and concrete in barnyard construction is the next best thing to the concrete
barnyard. The latter is too expensive conditions, but in a clay country with gravel under my conditions, but in a clay country with gravel and stone
unobtainable nearby, the concrete floor for the whole
yard

The final job in our barnyard will be a concret walk from the kitchen to the stalle door.. The based on long experience with farm barnyards. Halton Co., Ont.

## "Sandy" Goes To The Fair.

## Editor "The Farmir's Adpocate

Na doot ye'll think I'm gettin' ower auld tae be wis up tae Ottawa the ither day an' though I'll no deny 1 wis a wee bit tired when I got hame again, ${ }^{\text {still}} 1$ stood it weel eneuch for a chap $o^{\prime}$ my age. They hae places noo where ye can sit doon, whiles an' hear else ye like tae call for, an' it's no a bad kind thing vertisin' I can tell ye. Ye feel as though auld Tommy Edison wis daein' ye a favor. He gies ye a chair an sings ye a song an ye mak' up yer mind that gin the time ever comes when ye can pit a few dollars in his But ye'll be wantin' tae den
Central Canada Exhibititae ken something aboot oor na' be wastin' yer time wi' ma havers, 'Takin' 1 must thing intae consideration it wis no' a bad Fair fact it micht easily hae been worse, and ony man lookin for pleasure or information had a chance tae get what wad be the Pure Food Exhibt things tae tak' his eye could hae juist got a look int. Gin the auld Kaiser throwin' up his hands richt awa, for he'd ken that ony country that could tak' sampleso' some o' their pro ducts an' mak' an exhibit like that, would tak' aboo $0^{\prime}$ a dent, an maybe no' therin' tae show the first signs We'll no' be on short rations for a while grand, no mistak The next thing I cam' tae in, my wanderins wa the building they hae pit up for a' kinds o' There wis everything there frae a plow tae a threshing machine. Gin they keep on at the rate they're goin will need things, the tarmer o twenty years frae no no' muckle left tae be done hy machines. There's noo, but spankin' the bairns an' kicki' foot powe The next thing I ran intae was the automots. show. Ten years back this wad attract mair attentio these it does the noo, for ye can stand at ony street corne till ye're tired see automobiles o' every make an' style tae see a' these fancy rigs for setine its interestin think $o^{\prime}$ the auld lumber-waggons that oor fathers an $^{\prime}$ grandfathers used tae gang tae church in, when
they didna' they didna walk. The warld is movin' a'richt, esaifter I'd taken in these things an' motor-cars. Weel, importance, I says tae Hugh MacDonald wha wis with me, "Hughie," says I, "lets gang roond tae the stables: tae see the Holsteins, an' maybe we'll hae timantin' tak' a look at some o' the ither stock that's there while for the Holsteins were turned oot we had plenty o' time, room as usual this year. Na don much o the stable help is the reason for this, for we doot the shortage of ${ }^{\circ}$ guid stock in the country, but the fact remy amount peety: There never wis a time whenk it's a great,
the country were mair in need o' education lines o' better stock-breedin' than they are at
Gin the farmers themselves dinna' tak' Gin the farmers themselves dinna' tak' an frae year tae year they canna' expect ootsi' become interested, nor tae stap the expect ootsiders to tae the city that is gain' on at present the coul shortage o' men in Ottawa, I notice, but There look as though they wad tak' vera kindly they coos an' cleanin' stables an' that sort o' thing maybe when the war is over we'll get a' the men we can showing in live stock an' the ither thingak' a bet exhibitions were made for in the first place. The Ayrshires were oot in greater ony ither breed $o$ cattle and there were mons that animals in the lot, I'm bound tae say. But it guil at n' a week them. The city seems tae be aboot pit a feeni $\sigma^{\prime}$ ony kind. One thing I want poe pay fice for babie that is that I think a' the exhibitors o' live stock shan be permitted tae tak' the animals oot an' ship them hame on Friday night. n'y have tae leave them there till Satur it is noo Saturday evening tae wait over till Monday. The ane th are made for exhibitors the mair likely it easier hae a guid show frae year tae year. Weel ther mony ither things tae see an' sae aifter inspectin' tae the grand stand sheep, Hughie an' I went on tae the grand stand. I willna' be botherin' ye tight-rope performin' an' loopin' seen plenty o' th sort o' business before noo. But I must an a that $o^{\prime}$, the things that these chaps dae wi their bityc that there's ${ }^{2}$ ropes, are eneuch tae mak' ye thin mon wha gives ang impossible on this airth tae the complishment $0^{\circ}$. say one time that he would. Theard a civil engineer lan or water that ye liked tae name, providin ${ }^{\prime}$ then wis eneuch money behind it. An' aifter providin the tae sarance in some lines will dae, I wouldna' wan But talk' he was gaein ower far in his statement horses that will grand stand attractions it's the thing else. The rathen attention rae even richt gin ye liked that sort that ony healthy person, whatever their m thinkin racin may be, has a conseederable admiration for aguid horse, an' for the one that can rin an' trials ', skill an one that draws the ploo. A' for us. It's only when mene a guid lesson in then ae get something for naething oot o' the busines tryin hey spoil everything an' gie it a reputation that orwise deserve. Weel aifter the rec were over Hughie an' I began tae think o' gettin' back boarded the first car that looked a an unco' hard headed for the Central Station. It: tae the city an' takin' in a Fair like yon, chap, gangin' through time an', gin ye've kept yer eyes open an'
yer mouth shut ye'll have learned a guid deal an' taken no conseederable damage. Ottawa is a fine clean toon nyway, an' gives ye good value for yer money.

## Canada's Young Farmers and Future Leaders

A High School Student On The Farm.
Enito "Tha Fapuers
I wonder if there is space in your columns for a
few remarks from a high school student who has tained his examination by working on a farm during
the past summer stur perienced in farming to comment on its technicalities. made during my three months' stay in thations I have and perhaps infuence the minds of omeme chaps who ary,
dissatistied with country life and wish to enter on busi-
ness or professional creers At the present time the slogan of parents in the
cunntry seems to be, "Send the smart ones to school country seems to be, "Send the smart ones to school
and let the dull ones stay at home and work the farm and he the ssipport of our old age, ', Suck the form
andicy
seem. to me to threaten the very lyack pround of Canad? greatness. When we glance over the list of Canada's
illustrious citizens we are proudd illustrious citizens we are proud that her greatess
ministers, her greatest lawyers, her greatest do tors, her greatest statesmen have been born and raised on
Nature's home, the farm. Such a fact thrills me with pride that I, tho, spent my ch childoct thrills me miay with
rustic surroundings. But it is my opinion, that had the splendid brain power of farmers' sonsinand, that had had
who have arisen to political who have arisen to political or professional greatness,
been expended on agrieulturai problems, thei names Would hold as high a place of honor in the future, and of the high cost of living, immigration, the congestion
ot her cities, and as a result of the last named, the eriminal tendency of city-raised children.
Speaking about great mcn, I wonder why we do
not hear more about great tarmers. We have great
engineers, great soldiers, great theologians, grea
writers, but seemingly no great farmers. Accordin
to the somen to the standards by which we usually measure greartnes must write treatises on his profession public eye and not farmers get on the public platform, and write books dealing with the secrets of success in farming? The supplied with first hand, majortical of farmers are well profession, they are sensitive of betraying their lack
of style and diction or writing treatises on ay attempting
result is that which volumes might be penned. In ordject about an audience and express yourself. forcibly order to face and concise English, you do not have to understand Laun, Greek, French or German, or the principles
of chemistry, biology and minerology. Therefore
why does not why does not the government or Delogy. Therefore,
Education make provision for the establishent of W.nter classes where the young men and women of the
rural communities could be taught the art of debating
and addressing aur they addressing audiences on any subject with which school training and some general reading ought to to create an atmosphere of enthusiasm for farming among the other young men in his community. Such
a young man, I say, is doing as much for the interests of
Canada as is the Several times during the summer I heard it said,
"How I wish I had taken the opportunity my father
gave me of getting an eduç gave me of getting an education, ortunity or wor father
enect. Yet many of the persons whom to that enect. Yet many of the persons whom I have heard
talking like that have splendid farms, and if they
would only get as enthusiastic over their improvement,
as they do in making money with as little expenditure of time and labor as possible, they might easily become some branch of agriculture. leaders of the country in many farmers I know is that the attainment of money is their sole ambition. They don't care whether their cows are lean or fat so long as the milk cheques register substantial profits. They don't care how their horses look so long as they do the work with eating as little hay and oats as possible. This spirit is being handed attribute the unpopularity and so-called drudgery of farming to this fact. school, I did some serious thinking. It was back to from the old pasture field where I had just closed in the cows for the night. The sun had sunk in a sea of crim-
son; . high above me in the heavens the stars were slipping into their allotted places, the moon in his second quarter was bathing the meadows and woods around me in a pure, white light, not a leaf was stirring, the birds had long since gone to rest. The silence
and beauty of the scene filled my mind with a sense of and beauty of the scene filled my mind with a sense of on the farm and recalled the good times that I had, and the healthy exerciso that the work there had given me, a genuine reluctance to leave took possession of me. I thought of a young fellow of my acquaintance who was about to enter high school life for the first
time. His father owns a large farm time. His father owns a large farm and needs all the
help that his only son can give him, but wishes him to get an education. "Surely," I thought, he doesn't have to go to a city to find happiness and opportunity. The country is the place where, "a man's a man for a' that;" it is the place where, "a man's a man or
society, which I find is an inseparable companion of gilded
place, where in my estimation, the best opportunities
are given a young man for doing his bit in building are given a y young man for doing hist bit in building
the foundations of agricultura) institutions, upon which the oundations of agricultural institutions, upon whic,
Canadad's future
Sreatness must rest.

## Keep the Furrow Straight.

Really good plowing is so uncommon to-day that a airly well-plowding from aptearances of the overage passer-by, Judging from appearances ot the average
plowed fidd, plowmen take very
little p pride in their work. To get the feld blackened is the principal
im. In this age of rush and scarcity of help there may be some exscuse for hurrying vere the work as quickly as possible, but, what effect has the slip-
shod method of plowing on the man who does the shod method of polowing on the man who does the
work, and on the future crops? corp, are, in some cases, directly traceable to poor
plowing, The cut-and-cover system, which some folplowing. The cut-and-cover system, which some fol for the next season's scrop as sutting the furrow clean and properly turning it. The old system of setting flat, and no appreciable difference in croo production
 noxious weeds gaining in number. If the rotso
even a few plants are allowed to slip. around the ploweven a few plants are allowed to slip. around the plow-
share they may grow and propagate, thus becoming share they may grow and propagate, thus becoming
the means of seeding down a considerable area. Wild grass is another enemy of the crops that requires
turning completely under if it is to be kilied. This necessitates the use of a jointer or skimmer on the low in order to turn the edge of the furrow under. danger of grass getting a start. True, its use would
increase the draft on the horses, but more satisfactory work would be done. When plowing down long grass,
clover or weeds it is a good plan to attach a chain o the plow in such a way as to pull all growth into the furrow. Only recently a young farmer was see plowing a field on which was a luxuriant growth of weeds. Neither skimmer nor chain was being used, and, consequently, from a distance, the field looked more like a meadow than plowed ground. When questioned regarding the advisability of leaving th chain on the plow but I haven't one handy; maybe I will get one from my brother to-night." One-and-one-half acres of poor plowing in a field is an
eyesore and possibly a seed-bed of noxious weeds, eyesore and possibly a seed-bed of noxious weeds,
from which seeds will be carried to other parts of the farm. An endeavor should be made to turn under all growths and avoid, as far as possible, leaving holes in the field. If the field is stony this is no easy task, especially for a young man just learning to plow. There is some excuse for a beginner doing rather poor work, but there is no excuse for the man who has
been plowing for several years. From the very commencement there should be gradual improvement If the plow strikes a stone it should be pulled bac and a fresh start made. The writer well remembers the first field he plowed. Not being heavy enoug to pull the plow back, the horses were turned around True, this takes time, but it is worth it. If a man does not try to do good work when commencing to plow, the habit of carelessness gradually grows on him and he never becomes a good plowman. When strik ing out a field it is well to first turn a furrow out each way and then turn it back. This gets over the diffi-
culty of having a high centre and the ground is all
cut. Too often the centre of the ridges are not cut, and little else but grass and weeds grow up the follow-
man's job. To while others take a delight in following the plow day after day and ever trying to improve on the straightness and neatness of the furrow. Plowing men as painting a picture does to the artist, but it is men as painting a picture does to the artist, but it is
feared that too many tillers of the soil do not look upon their labors as a work of art. The man who is careless in his plowing is likely to be careless with every task he puts his hand to
Within the past year or two plowing matches have been revived. Evidently the need was felt for traingratifying. A splendid feature about them are the classes for boys and young men. They have an opportunity of showing to spectators the kind of work they can do. The work that is done in competition must of necessity be duplicated at home, for no man
can become an expert plowman in one day. It would be a good thing if more of the young men made be a good thing if more of the young men made only way to do it is to practice at home. Straight, neat work can be done with the double plow, as wel
as with the single-furrow plow. It is a matter of as with the single-furrow plow. It is a matter of
handling the horses carefully and properly adjusting handling the horses carefully and properly adjusting
the plow. Better plowing, we believe, wouid have a the plow. Better plowing, we beieve, wouid have a
tendency to improve the crops. It should also be borne in mind that the way the plowing is done is an indication of how all other work undertaken will be done. There should be scores of young men in competition at every plowing match. To compete
favorably, the home field must be the training ground.

## Automobiles, Farm Machinery and Farm Motors.

The Story of Spring Suspension. There, is not a farmer in the country who is not spots have upon a buggy or wagon that is being
driven over the average country road, and so it seems unnecessary for us to state that when hardtired, horse-driven vehicles strike any obstacle, the force the rig has come out of or over any place not perfectly not true, however, of automobiles, for their springs are built in compensation with pneumatic tires in order that the jolt may not be communicated at
once, but rather spread over an appreciable distance. Before going any farther, it might be well to state passengers of an automobile by not pondering upon and receives a far greater blow. We must bear in mind that a machine twice as heavy as a carriage depression with four times as much power and dean hour, or five times as fast as trotting a horse he jolt, you can expect to receive, upon hitting any btained by an old-style vehicle. This ratio, of tires bring a large measure of ease, and that the different types of springs tend to reduce forward
and side action tremendously. Manufacturers have a umber of points brought before them in determining It what springs should be placed upon their cars.
It can be safely stated that very flexible, easy-moving springs take small obstructions easily, and large ones also an established fact that the subdivision makes possible to absorb the uneveness of the road by
spreading the back action over more space than is possible by employing solid material. A very popular cheap car employs a cross spring, which, while not as three-quarter elliptic and semi-elliptic. Of the last three mentioned the first and second are doubtless
easier upon the passengers, but the third has advan tages in the matter ingers, but the thillation which seem to compensate for any loss of comfort. It can be stated in along the side of the frame and gives easier starting elliptic arrangement maintain that their situation and clips on the axle are so arranged that the spring
leaves are not twisted, and only one of the two wheels of a pair is projected and only
There is a new type of suspension that seems to
be meeting with a great deal of favor. It has been of leaves of different The idea is to combine a number thin for thick leaves, but there are car models with
ones. Back of this construction is an idea producing great flexibility. Garage men will tel
you that cantilever takes up a jolt and instead of you that cantilever takes up a jolt and instead of
communicating it immediately to those riding in the
car, spreads the Front springs are uniformly shorter and stiffer
than rear springs, because reliable steering is always
essential for safety. Then, too, a car body must be prevented from pitching forward disagreeably when In little roadsters, of certain types you willfind it a advantage to carry a bag of sand or a piece of heavy material under the deck at the rear, at times whe you are using your car alone. If three passenger are riding, the action of the springs will be as comortable as the manufacturer intended, with seven types, shock absorbers can be employed successfully, Where only the front seat is being used on a lon journey some owners have found it wise to emplo straps. Let us close this article by stating tha cars with maximum riding qualities are those possessin the most harmonious relations between springs an be inflated harder and will last longer but if the spring are stiff and rather unyielding, less air should be used although by following this your mileage for the casing nay be somewhat reduced. You should remembe that each spring works co-operatively with the othe the best results are being acyieved Soe thet the body of your automobile is perfectly level under all conditions, because if one correrer shows a tendency to sag you cannot provide yourself and your guests with that
measure of ease which is so much desired. Constan measure of ease which is so much desired. Constan inspection of the springs. should be made in order may be immediately remedied. You may give your car a heavy impact to-day and fracture one of the eaves without immadiately noticing any inconvenience, but sooner or later this weakness will communicate
itself to the balance of the spring, and you may find itself to the balance of the spring, and you may find
infinite trouble in reaching a destination. Always infinite trouble in reaching a destination, Away
look well at the clips, for looseness frequently results in accidents of a minor nature.

## Farm Implements May Be Scarce

 and High
## Farmers are vitally interested in the difficultie

 which now are confronting the manufactures of farm age of raw materials. Every steel mill in the country is congested with orders, due to the heavy and un precedented foreign demand for steel products, makingdeliveries in the domestic market a very much delayed deliveries in the domestic market a very much delayed of future prices also is complicating the situation of future prices also is complicating the situation,
since the :mplement manufacturers find it impossible to deal with the steel men on contract as always they have been enabled to do in the past. So serious is the actual shortage in materials and so delayed and uncertain are deliveries of what can be procured that
it is feared some of the larger factories may be comit is feared some of the larger factories may be com-
pelled to shut down in the near future. It now is pelled to shut down in the near future. shortage of finished machines to take care of a demand which this year had returned to normal proportions after the
depression which had characterized it for the last two
years.
Inability to command needed transportation facilities is another factor of troublesome proportions. The congestion of freight in the east, due also to the foreign
demand for goods of all descriptions, tying up the
rolling stock of the railroads in eastern terminal yards tappalling, and in some sections of the country it is
almost impossible to get cars. This applies alike and almost impossible to get cars. Tats applies ailike and
affects alike shipments of raw materials 10 the factories and shipments of the finished products from the factories to the retail dealers. The latter ought to have, at this season of the year, complete stocks of tillage tools in their warenouses and on their sample floors, but many of them have been unable to get their orders Still another factor which adds compications an already unsatisfactory situation is the great advance ready in consequence of these, most implement manufacturers have advanced their prices to the dealer, that implemer advances are im and high this year and farmers who are contemplating additions to their equipment will do well to buy as early as possible. As an indication of what some of the advances al ready have been on raw materials, the following table, complied and published by one of the leading farm
equipment manufacturers, is offered. The percentage show the advance in cost of raw materials above the prices which the manufacturers were compelled to pay in 1916:

Per Cent Pig iron, No. 2 foundry................................... 60 Steel tank plate............................................. 113 Steel sheets, galvanized..................................... 70 $\xrightarrow{\text { Iron bars. }}$

## Wire nails

Crudde oil
Linseed oil
Naphtha or benzine in C.
White and red lead........
Leather butts for belting.
Leather butts for belting.................................... 100

 Drills, cutters and other tools made of high speed tool steel 10 to 20 Lumber of all kinds. | 10 to 20 |
| :--- |
| 10 to 50 | -Farm Engineering.

## The Auto Trailer.

One of the newest and most practical farming utilities which is coming into general use this fall the auto trailer. The auto trailer fils a distinct function the motor car has simplifed his carrying problems the trailer is a step farther in automobile developmen which bids fair to effect new and valuable economies in arming operations. The auto trailer exhibits at the tion this year
A recent issue of the Michigan Farmer published an article from which the following is quoted: On Tuesday of this week, we saw a young farme marketing 3,400 lbs. of corn with his pleasure car and trailer. He carried 2,700 lbs. of the weight in th miles to market and he made the trip in one hour

With a team, he would have spent at least 10 hours in marketing this load, with this equipment, he was
back home inside of 4 hours from the time he started, back home inside of 4 hours from the time he started,
folly two hours of which time was spent at the market. Viewed from whatever angle, this young man's method. of marketing is superior to the old system of his father's in which horses were used.
without the young farmer could afford a pleasure car he can making use of it in marketing his product, When the car is used for investment a valuable one a means of carrying produce to town.'

## THE DAIRY.

## Why the Price of Milk is Low.

Edtror "The Farmer's Advocate
Your Editorial headed "The Consumer, Producer and the Price of Milk," in September 7th issue must have struck a responsive chord in the breasts of many readers. The ultimate consumer, as you say, is a the high cost of living, and the money outlay for everything else. The farmer complains also, and certainly with good reason, though he really doesn't deserve the same patience and sympathy as the consumer does co-operation, and some protect himsell my means enough punishment for his detachment from his fellows he will doubtless come to it, as farmers came to in Denmark and other countries; but strange to say in their case also, not until they were practically driven
to it by force of hard circumstances It seems strange, on first thes.
dweller should pay, an advanced price that urban factured product without squealing, when a manulike thunder if milk is raised a cent a quart. he howls humble servant, who has been through the stages of modern city newspaper production, it is really not so very strange after all. I blame the city newspapers very largely for the wrong slant which the dweller in towns and cities gets to his point of view about farming and the farmer's business. Nine times in ments include the "doing" thid reporters whose assignments include the "doing" of the markets, and the usually a town boy knowing usualy a town boy, knowing nothing of farm life or to intelligently size up and report upon those subjects. He is a mere adolescent onlooker at something he knows nothing about, as you or I might watch a captain bring a huge freighter alongside a wharf, with never a bump and scarcely a grazing of timbers-it looks all so easy! The kid reporter is not supposed to be a whale on accuracy, and he soon absorbs the idea that to be a successful reporter consists in seizing hold of catchy points and making readable "stories"
out of them. To those trained on and accuracy in reporting it always seems regrettable and accuracy in reporting it always seems regrettable offices as a "story," and, sooth of in newspaper treated as such.
The boy reporter having done his part hands it to of our larger newspaper of whose salary on man write catchy headings, which means the picking out of telling features and setting them forth in brie
striking phrases striking phrases. Sometimes they convey the sub stance of the article correctly, sometimes they are
irrelevant, often accuracy is irrelevant, often accuracy is sacrificed in order to be
catchy or sensational. catchy or sensational. "Modern daily newspaper
proprietors. don't like "tame" headlines, and the proprietors don't inke "tame" headlines, and the
tendency is growing. The -most distinguished of
Canada Canada's editors, who now wears a knighthood, once told a newspaper friend of mine that if he ever came to own a newspaper he would never allow more than
single-column headings. single-column headings. He is now proprietor o
a paper that stretches its headings across a paper that stretches its headings across the whole
seven columns, and not only that but shows some of them up in flaming red ink. Thus do we "evolve" and papers in misleading their readers concerning the farmer's business, we can pick up almost any
newspaper and find such headings as "Dairy Farmers
nat Making Money, Another Successful Year for Ontario Dairymen," with similar frills, as sub-headings; "The satiated. The city housewife and on on till we are of course; concludes that this is really the substance of the thing-that the farmer is making his pile and
that they are the sufferers and have to pay dearly After all it simply comes down to this, that it no use worrying about what the misguided ultimate we as farmers and businessmen should do is get to
work as other businessmen do and It isn't a bit of good whining. That patect ourselves.
way. He whined, and whined and whather's died whining, trusting no doubt that whed, and he public or "the powers that be " would hear his com-
plaint, perceive it to be just, and plaint, perceive it to be just, and pass out some form of Now grandfather is dead, and we are living in an
age when, if we have eyes to see and ears to age when, if we have eyes to see and ears to hear,
it has been abundantly proven, and is to-day work-
ing out under ing out under our very noses, that by getting together
under the name of co-operation (and "sticking" tounder the name of co-operation (and "sticking the producer in any line of business can a mighty big say as to what his products shall be sold
for, and whether he shall have a decent living profit for his labors or not.
I, too, have been reading that most interesting book
referred to by our mutual friend Peter Mc Arthur, referred to by our mutual friend Peter Mc Arthur, "The Farmer and the Interests; A Study in Parawould buy a copy of it and read it seven times. It would do him more good than anything he has taken inte his system in a mighty long time, for I believe it as in a looking to his senses, where he could see himsel as in a looking-glass, with long ears and a fiddle-face, able to realize the absurdity; of the situation and the tremendous power that the farmer could exert in this and of ours if he would but quit his old foolish way of copying grandfather and adopt a few most simple modern methods of conducting the most important part of his business, which farmers in other places have adopted to their abundant satisfaction and profit.
This little book was sent me as a gift, but I think it sells for seventy-five cents, and it would be cheap at twice the money. It contains so powerful an argument, so clearly and readably written, that if it cost one and act upon the farmer in Canada would buy one and act upon the lesson it contains, I believe country than any the uplift of farming in this youn among farmers. Treat yourself that has ever worke a dry page in the whole book from cover to cover, and you'll feel better and think more of the nobility and well as the possibilities of farming when you've read it. And, unless I'm mistaken, you'll want to read all over again, for it's the kind of talk that takes hold of one and makes him feel glad to be called fourteen kinds of a jackass. Here's to Clarus Ager, the author who assu
Turning back to the price-of-milk question, it's no wonder that the Editor is stirred to write editorials on the farmer who produces quantities of this valuable and necessary food grows hot under the coll he hears the consumer's yowl and is aware all the while of the following undeniable things completely proven by investigation:-
the farmer continues to sell his milk at the same
price as before. The middleman states prepared to pay, and that settles the matter. I as he is from his fellows, the farmer is powerless trol in any sense or form the most vital factore business. His protest is a still, small voice pathe crying in the wilderness over milk that's just as haverto do something about it go on in this wayl No wonder the can't let this former. They certainly wonder they look down on to walk always in the can t look up when he is cont nor the dignity that should belong to Northumberland Co., Ont.
W. L. MARTY

## A Veterinarian's Views on Tuber culosis.

We sold a cow to a man of precise ideas. Bein a systematic study of farming as an avocation for number of years, he was positive in his convictias to what constituted safe and sane and mathematio $y$ accurate methods. To our surprise, he spec that the cow should not be tuberculin tested a preferred not to haye her subjected to the danger of a reaction; but he stipulated that she ve given a thorough physical examination by a caps veterinarian to make the exated that he send his ow the man of science appeared off his coat he proceeded to examine the cow frot tooth to tail, and from head to hoof the cow from he gave us considerable information in answer to numerous questions.
It may be mentioned that the Doctor is a reco nized authority in his profession, and is in deman attach a considerabler. Therefore, it is proper to observations on the question of bovine health. answer to our question as to what he thought of the value of a physical examination for the purposi
"A single physical examination is valuable con is valuable but not
cepeated, whe reas repeated examination conducted periodicall
for a term of year for a term of yean
may be dependec
upon to proveeffective upon to proveeffective health of a herd. several years I was employed, in company
with another veterinwith another veterin arian, to make inspec tions of all the men bers of a certain dairy numbering upwards of 100 animals. Eventually it became neces-
sary to have the herd sary to have the herd order to conform with the requirements of the market handling the milk from the herd; and in the entire number, only eight
reacting cows were found, every one of which, in post mortem examinations, proved to be a localized case with not a single genwhole herd. My ez whole herd. My ex
ous other herds fla
led me to the conclusion that, in nine cases out of ten, bovine tuberculosis can be detected by a careful
physical examination. Moreover, by means of
laboratory experiments laboratory experiments, examinations of sputum, etc., it is possible to detect in practically every in can hope, therefore, that the only way in which we can hope to make any progress in our fight against plan of periodic physical inspection that shall apply ""To every animal in every herd with the tuberculin test is reliable, but the trouble in animals having tuberculosis in produces a reaction form, animals that ordinarily would continue profitable members of the dairy until they die of old age because I know dread to conduct a tuberculin test be condemned that, to all intents and purposes are perfectly sound and healthy, and that for no reason whatever ought to be sacrificed. The tuberculin test, as it is now administered, is not enabling us to
make any progress. An occasional test here and in some herds a few miles away and over in the herd is some other progressive breeder a few miles farthe of the cattle of the country as a whole; but a the health system of conscientious examination, resulting in the to be spreaders of tuberculosis, could not are found complish wonders in the cause of good health and without working a serious hardship to the individual
owner. Why, everybody
a profit from their herds than in previous years to mak because of the increased prices of foodstuffs. Second, because the farmer, alike with the complaining consume is a victim of the High Cost of Living, and has to pay
more for everything he buys. The ultimate consumer of farm products in towns and cities will please not that shoes, drygoods, groceries, hardware, etc., etc., for them in the cold coin of the realm. For proof of the unprofitableness of producing milk
let us get down to figures. In Minnesota a cow census was taken. One hundred herds were the creamery of the hundred herds was $\$ 32,815$, and the cost of feed, $\$ 27,191$, leaving a profit for the hundred
herds of $\$ 5,624$, or $\$ 5.15$ per cow. In nothing is said about labor. cost of producing milk has doubled in the past 18 years. Every child sucking a bottle knows that the price at Which the product is sold to the ultimate consumer proaching it. Rations for dairy cows have increased
70 per cent. in 18 years. They are increasing ate of about five per cent. per week at the present time
Viewed from a business which the from a business standpoint, the lines on
ridiculous. When the price business make him look materials goes up, other manufacturers advance the
price of the finished price of the finished product, and consult nobody.
When the price of farm labor advances, or foodstuffs
go up, as they are rapidly doing this owner. Why, everybody knows that a universal
application of the tuberculin test with consequent


Madam Posch Pauline 10291
ays millk, 772.2 1bs; bu
 milk 118.8 lbs. 6 months

## THE FARMER'S ADVOCATE

slaughter of all the reacting animals would ruin the diry industry, and would involve a needless sacrifice of the great majority of the cattle that would have to te condemned as a result of the test; and every veterinarian and every other man who is at all posted, understands perfectly well that the most of the cattle of the country are not affected with tuberculosis to a degree that is in any sense angerous either, witit which they come in ioes it matter that the post mortem ex amination of a condemned animal after long search reveals a tuberculosis lesion the size of a pea in some remote corner of the animal's a natomy? commonly referred to as a striking illustra tion of the triumph of the tuberculin test and as a sufficient vindication of the law that condemns the animal to death. don't see how we can help being forced to the conclusion that the physical examination must eventually
supersede the tuber supersede the tuber
culin test, and the cuin test, and the
latter will not need lo be resorted to at to except in special cases where the with its accompany ing laboratory tests, does not prove
tirely conclusive tirely conclusive.
important
Another important factor in the warfare against tuberculosis is the adoption of a law providing for pasteurization of skim-milk and whey in all publ
factories and creameries."-Black and White Record.

Dairy Records at Guelph College.
During the past year the Holstein and Shorthorn cows
the 0.A.C. dairy herd have given a good account of themselves. True, they have received every attention


Hillside Peter Pan.
Senior and grand champion Ayrshire bull at Toronto. Owned by Alex Hume \& Co., Campbellford, Ont.
and have been fed heavily on milk-producing feed ewever, every cow has returned a profit for the feed consumed, the highest in the Holstein herd being $\$ 176.14$ and the lowest $\$ 31.63$. Shorthorns are not expected to give as high returns in milk as strictly dairy breeds, but, the milk product of Golden Rose at marke value amounted to $\$ 204.40$, or $\$ 101.32$ over the cos records is that the highest were made by cows which
were milked twice a day throughout the year, thus demonstrating that, providing care and attention are given, creditablé records can be made from twice-a-day milking. The following tables give the age with the pounds of butter-fat and it is interesting to compare the yields of milk-with the cost of feed. The cow that gave the most milk cost the most to feed but also made the greatest profit. In the majority of cases there is a definite relation between the yield

Records of Shorthorn cows at the O. A. C. for year ending August 31st, 1916, under R. O. P. rules.

| Name of cow | Age | Lbs. milk | $\begin{aligned} & \text { Lbs. } \\ & \text { fat } \end{aligned}$ | $\begin{gathered} \text { Lbs. } \\ 80 \% \\ \text { butter } \end{gathered}$ | Cost feed | At 33c. value of fat | At 20 c value of Skimmilk | $\begin{gathered} \text { Total } \\ \text { value of } \\ \text { Product } \end{gathered}$ | Profit over cost of feed of feed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Golden Rose. |  | 12395 | 560 | 659 | \$103 08 | \$184 80 | \$23 60 | \$204 40 |  |
| Lady Maud | 8 | 11981 | 506 | 600 | 10624 | 16698 | 2280 | 18678 | 8054 |
| *Iford Waterloo Baroness | 4 | 10410 | 381 | 450 | 10449 | 12573 | 20.00 | 14573 | 4124 |
| *Iford Fairy Duchess. | 4 | 9536 | 384 | 454 | 10019 | 12672 | 1820 | 14492 | 4473 |
| *Flora Hope.............. | 2 | 7773 | 318 | 374 | 9707 | 10494 | 1480 | 11974 | 2267 |
| Puddington Solo (3 teats) | 4 | 6441 | 271 | 320 | 7042 | 8943 | 1220 | 10163 | 3121 |
| Welbeck Princess Darlington. | 3 | 3149 | 126 | 150 | 4268 | 4185 | 600 | 4785 | 517 |
| Average of 7 cows, 2 years old and upwards, test $4.15 \% \ldots .$. |  | 8812 | 366 | 431 |  |  |  |  |  |
| Average 39 cows in Vol. 7, R. O. |  | 8812 |  | 431 |  |  |  |  |  |
| P., 3 years and upwards test $3.9 \%$..... |  | 7700 | 303 | 357 |  |  |  |  |  |

Record of Holstein and Holstein Grade Cows at O. A. C. for year ending August 31st, 1916, made under R.O.P. rules.
Value of products and cost of feed are also given.

| Name of cow | Age | Lbs. milk | Lbs. fat | $\begin{gathered} \text { Lbs. } \\ 80 \% \\ \text { butter } \end{gathered}$ | Cost feed | $\begin{aligned} & \text { At 33c. } \\ & \text { value of } \\ & \text { fat } \end{aligned}$ | At 20c. value o skimmilk | Total value o Product | $\begin{array}{r} \text { Profit } \\ \text { over cost } \\ \text { of feed } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| *Young Springwood <br> *Blackie (Grade). <br> *Molly Rue Rattler. <br> *Molly Rue <br> Toitilla Rue 2nd <br> *Margaret Cornucopia. <br> Beauty of O. A. C. 3rd <br> Barbara (Grade). <br> Mercena Neth. O.A.C.2nd. <br> Toitilla Rue. <br> *Beauty of O. A. C. <br> Molly Rue 2nd.. <br> Mercena Neth. O. A. C. <br> 3rd (3 teats) <br> Average of 13 cows, 3 . <br> years old and upwards <br> (the whole herd) test $3.6 \%$ <br> Average of 122 mature <br> Holstein cows in R. O. P. <br> Vol. 7, test............... $3.2 \%$ | $\begin{array}{r} 5 \\ 14 \\ 3 \\ 6 \\ 4 \\ 4 \\ 10 \\ 5 \\ 6 \\ 5 \\ 5 \\ 12 \\ 4 \\ 3 \end{array}$ | 20110 | 821.12 | 1026 | \$133 19 | \$270 93 | \$38 40 | \$309 33 | \$176 14 |
|  |  | 17119 | 639.71 | 800 | 12701 | 21120 | 3280 | 24400 | 11699 |
|  |  | 16975 |  | 800 | 12215 | 21120 | 3250 | 24370 | 12155 |
|  |  | 16466 | 602 | 753 | 12338 | 19866 | 3160 | 23026 | 10688 |
|  |  | 15253 | 554 | 693 | 9470 | 18282 | 2940 | 21222 | 11752 |
|  |  | 14978 | 554 | 693 | 13173 | 18282 | 2890 | 21172 | 7999 |
|  |  | 14821 | 535 | 669 | 91.42 | 17655 | 2860 | 20515 | 11373 |
|  |  | 14702 | 509 | 636 | 8366 | 16797 | 2820 | 19617 | 11251 |
|  |  | 14515 | 483 | 604 | 9625 | 15939 | 2800 | 18739 | 9114 |
|  |  | 14041 | 513 | 641 | 8059 | 16929 |  |  |  |
|  |  | 13083 | 416 | 520 | 13085 | 13728 | ${ }_{2}^{25} 20$ | 16248 | 3163 |
|  |  | 12677 |  | 586 |  |  |  |  |  |
|  |  | 11122 | 404 | 505 | 7479 | 13332 | 2140 | 15472 | 7993 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | 15072 | 551 |  |  |  |  |  | - |
|  |  |  |  |  |  |  |  |  |  |
|  |  | 14411 | 451 | 564 |  |  |  |  |  |

of milk and value of feed consumed. However, thit does not always hold good; for instance, Margaret Cornucopia, a ten-year-old cow, came about 5,000 pounds short of the record cow in yield of milk, but her feed cost was within $\$ 2.46$ as much, consequently this greatly reduced the profit. Beauty of O.A. C. a twelve-year-old cow, was about 7,000 pounds of milk less, which makes cow, but her feed bill is only $\$ 2.34$ less, which makes a difference of $\$ 144.51$ in the profit. of the feed consumed in favor of keeping an account The cow that gives as well as of the daily milk records. necessarily the most profitable cow. The table shows that the average of the whole herd of Holsteins and Holstein grades is about 600 pounds of milk and 100 pounds of fat, better than the average of 122 mature Holstein cows qualified in the R. O. P. during the year ending April 30, 1915. The average butter-fat content of the milk is also considerably above the average for the breed. The two strains of Holsteins kept at the College are exceptionally high testers. The herd of Shorthorn cows also averages considerably higher average of the cows qualifying in the butter-iat than the average of the cows qualifying in the R, O, P
usually high, but. the point to be remembered is that usually high, but. the point to be remembered is that Even if the interest on investment, cost of labor and over-head expense were deducted, the profit in all but one or two cows would still be exceptionally high, which goes to prove the possible profit from a careftuly selected herd, properly fed. The cows never lacked for a supply of roughage and concentrates were fed according to the quantity of milk produced. The following will give some idea of feeds used in making up the ration and the cost of same: Alfalfa hay, $\$ 3.34$ per ton; mangels, $\$ 2.50$ per ton; bran; $\$ 25$ per ton; brewers' grain, $\$ 25$ per ton; oats, 35 cents per bushel; oil meal, $\$ 36$ per ton; cotton seed, $\$ 30$ per were market price of the various feeds. When studying the table it must be remembered that all the cows, with the exception of Blackie, a grade, dropped two calves within fifteen months, and that some freshened within the year. The mark before the cows' names indicates that they were stable fed the year round. The figures were forwarded by A. Leitch, farm manager and five-stock investigator at Guelph. Agricultural
College.

HORTICULTURE.
Small Fruit Packages and Packing.
The results of the analysis made a few years ago of many food products revealed the great need of pure food standards and the necessity or reguiations to facturers and dealers have in many cases not only exceeded the standards as to quality but have created a keen competition in the matter of sanitary and attractive packages for their products.

The ever increasing demand for package goods has demonstrated beyond a doubt that the people are willing to pay big prices to satisfy their desire for sanitation, and many of our very ordinary foods, which a few years paper sack are to-day scarcely recognized in their papertiful lithographed, labelled package and trade registered name. It is a well-known fact that in many cases the cost of the package and the advertising of the article exceeds one half of the actual selling price of the goods.
Whether or not these new conditions have unnecessarily added to the high cost of living is not a question for our consideration at this time, but it proves conclusively that the question of packages for all food products is one of great importance and worthy of Our present fruit.
Our present fruit standards or grades apply only to fruit when packed in a closed package, which practical. standards or grades for the marketing of small fruit. Many growers are of the opinion, however, that some such standards or grades are desirable, but not practical at the present time.

During the last two years the question of standard fruit packages has been a live one with growers and shippers, especially in the Niagara District and in the province of British Columbia. Many resolutions have been received by the Fruit Commissioner from representaquesting that fruit growers throughout Canada realthough nearly all are of the opinion that standardization is needed there is still a considerable variation of opinion as to what are the best packages to adopt. In fact so keen has this question become in one of our tender fruit districts that the growers are divided into two factions, both realizing that they cannot agree, they have asked the department to arbitrate as it were. It is therefore quite evident that great care must be
exercised in selecting the packages before asking for legislation.
Growers in the province of Quebec are naturally interested in all packages used in marketing fruit especially those which may be used to market straw tomatoes, for these are the main crops of small fruits
grown.
In Eastern Canada the commercial package generally used to market these has been the berry box, and the six and eleven-quart basket.

## The Prosent Legal Requirements and how they Affect the Producer and Consumer

Section 326 of the Inspection and Sale Act, part IX requires that every box of berries or currants offered for sale and every berry box manufactured or sale shall be plainly marked on the side of the box in black letters at least half an inch square, with as nearly exact as practicable (a) at least four-fifth's of a quart, or (b) two-fifths of a.quart. This practically means that any box of a size between the two-fifths and the four-fifths quart or any box smaller than the two-fifths quart must be marked "short."

The marking of the word "short" on the side of the box was intended to convey to the purchaser the information that that particular box did not contain as much fruit as the four-fifths or two-fifths, but on account of the marking being on the side of the box, very purchasers on enquiring as to the meaning of the word
shore," were told that it was the grower's name.
When these regulations were framed it was no doubt expected that there would be practically only two sizes of berry boxes used, but this unfortunately has not been the case. It is possible to manufacture and offer fruit for sale in any size box one may wish, proed the word short is marked on the side.
The lack of standard boxes has caused a great amount of dissatisfaction to the trade and consumers. of December with fruit imported from the middle States in Imperial quart boxes, well filled These are bought by the retailers at high prices but, on account of the high price, are seldom offered in the original packages. The retailers buy smaller boxes of various
sizes containing two-fifths, one-half and four-fifths sizes containing two-fifths, one-half and four-fifths quart which they fill from the original packages. Many of these smaller boxes although varying in cubic measurements are made to appear to be the same size ments of the full quart thespe, the surface measurepint are practically the same. The quart and the there is no uniformity in the retail prices and the that sumers are unable to tell whether they are getting value for their money or not. These conditions obtain throughout the season when fruit is imported, whic is usually from December until our Canadian fruit is offered in June.
berry box is that there is no legal requiretion with the quantity each box must contain, requirement as to the quantity each box must contain, and we find that boxes ounces. In order to make the best of a bad purchase the retailer is sometimes tempted to improve the appearance of the boxes by turning the fruit out and replacing the berries in the box in the same way as one can pile a cord of wood to make it measure a cord and quarter.
During the past three seasons the staff of Fruit Inspectors have been paying special attention to the filling of boxes and baskets and have obtained excellent results. On account of the thinness of the slats used on the top of the boxes, great care must be exercised in having the boxes well filled and levelled off before being placed in the crate in order to have a full appearing box when they arrive at their destination without
bruising the fruit.

Present Methods of Marketing in Quebec. A visit to the Bonsecour Market in Montreal will give one a fair idea of how the greater percentage of
small fruit and tomatoes are packed and sold. Unike he strawberry growers of Ontario, who ship their growers in this province use a crate containing 54 short boxes-three layers of 18 boxes each. The crates are made ut of one inch lumber and are returnable to the grower. the growers are not over usually comes at a time when their time is very profitably employed in hauling their fruit to market instead of drawing to the nearest railway station and shipping by express. Thirty-five crates
containing about 1,800 boxes can be loaded express wagon and drawn by a team of horses for long
distances. The operation requires and represents a wage of about $\$ 22.00$ for one day and his team. This method would prove profitable only where the grower has the time to spare.
Plums and tomatoes are usually marketed in towe of various sizes, the old green painted John de Kuypen uniformity in the size of the containers makes the buying and selling more or less of a gamble-more I think on the part of the purchaser than the grower, because
the grower usually knows the quantity each tains.

## Packages and Packing.

The packages now used and the present methods grower so long as he continues to sell his fruit in the
local markets, but if the production local markets, but if the production of small fruits in
this province is to increase in proportion to the possibilities of production and marketing the growers and present a neat appearance when offered for sale to There have been several kinds of containers used in shipping fruit in berry boxes in Eastern Canada, but box basket and the 27 -box crate. The latter the 24 decided advantage over the 21 -box basket, its carrying
qualities are better and the cover may be removed
as often as necessary without having to draw nails and injure the cover thereby. Therefore I think the time is not far distant when the 27 -box crate or one similarly constructed will be used altogether in in the crates is not sufficient to allow the proper filling of the boxes without loss of time.

In picking strawberries great care should be taken to exclude all over-ripe berries or larger berries with small, soft spots on the side. The temptation to put economy to do so as one or two of this kind will in a few hours affect the whole box and depreciate the value of the crate.

The crates in which the fruit is to be marked should never be taken out to the plot as they are almost sure to become soiled; pickersshould be provided with special A icking crates or baskets holding eight or twelve boxes. protection to the fruit from sun and showers and protection to the fruit from sun and showers and come from the pickers, may be inspected before placing them in the shipping crates. A mistake which is not uncommon is that of allowing pickers to place their boxes directly into the shipping crate. This practice requently gets the grower into trouble because it permits an unscrupulous employee, who is being paid by the box, to place partly filled boxes in the bottom
layers and full ones on the top. This is an offence layers and full ones on the top. This is an offence against the Inspection and Sale Act, which requires package of fruce or shown surface of every package of fruit shall be a fair representation of the practice of "placing" the berries grow have made a each box. The operation does not pay and it tend to arouse a suspicion that the contents are not equal to the shown surface.

The same rules apply to currants, gooseberries and should be taken in packing black currants to see that all green leaves and unripe berries are excluded. Black and red currants are frequently shipped in the six and eleven-quart baskets and although they carry fairly well in the six-quart basket the berry box is considered the best all-round package, as it allows of a greater
circulation of air which prevents the fruit from heatin
and becoming " matted.

Montreal Melons Grown at Vineland Experiment Station
quart fruit basket and although we may admire the four-basket crate used by our California and Pacific package in which to market our eastern grown better peaches, pears and grapes than the six and elevenon the bottom layers is so great as baskets the weigh disfigure the packages. governing the packages and packing of small fruit have growers, and had it not been for the conditions brought probability be in effect to-day. It is therefore in the out the Dominion to give this question of standard
packages and grading their serious consideration, so that when legislation is possible we may obtain that
which is most suitable to our needs. Standardization will give to our fruit industry a to-day. for small fruit production in the various possibilities nowhere are Canada and I am fairly convinced that Nature has made it possible to produce fruit of a quality
which cannot be surpassed and the markets are ablished. [A paper by C. W. Baxter, Chief Fruit Inspector,
read at the Quebec Pomological Society meeting at


Who ever heard of merchant putting any thing but his best storl to the front? We wouldn't
ask nor expect a grocer to ask nor expect a grocer to
put his dusty and stained packages on the shelves of packages on the sheivesol going to face his packages with the No. 3's when No. 1's are mixed through. He will naturally put at least mostly No. 1's on for facing and then immed-
iately the package becomes deceptive. Of all businesses the
ruit grower seems to be a "mark" and nearly everything he is asked to do for the trade he will
do. He was asked to advertise the fruit lands and he did it. He is ruit single handed and he obbers get the greatest part of the benefit and now they are asking him
o do what he intended to avoid by introducing the economy crate,
that is packing and grading; and the chances are that he may yield to it. The only thing the law as regards pack, which states that the on the inside. The economy crate has not filled a is too large the southern end of the Okanagan for there and the growers and shippers have felt that it was taking a lower price than was necessary for a great
many of their apples. and districts where there are a great many in orchards where the majority of are a great many varieties, and known in the market where they are sold, and where often because the catalogues of nursial value, planted, special write-up and very elaborate color plates. Many of the orchards were put in by development companies bout their stock from nurseries and asked no questions came at a reduced rate. These orchards were planted and sold before they came into bearing, and the purchaser has either to sell his crop in some such way as the economy crate offers or get practically nothing for it, until he can top-work or plant his orchard new, in between It meets its keenest opposition at his only salvation who have nothing but the best varieties and a large loubtage of No. 1's in their pack, for there is no doubt that a cheaper pack will pall down the price
of the first quality apples if the cheaper pack is very
much in evidence.

## A Discussion of the Economy Crate.

## Editor "The Farmer's Advocate"

In your issue of August 31 you gave a cut of the Economy Crate, a package used last season by somie to your readers to know the history of this new intereo and why it was used, as well as its weakness as a suititable The fruit land
The fruit lands of the West are largely held in lands in the irrigated districts, whom the speculators up their business and take up fruit farming ased to gio or something to retife to. These fruit farming as a hob cities and have been used to getting theire come fro up in an attractive manner and doing up goods done in fine packages, so when they embarked in ware growing they brought to it methods they learm and used in their various businesses. Their big vantage on the market was gained and is held by th attractive pack and package in which they put up the ruit. It has been carried to the extreme and ther the reaction against it, partly on the economic side o the matter. The price of packing is high in the imation trained many growers, but it requires skilled an that they have swung to the outher to do away wit oo away with the graded pack altogethere and trie The way with the graded pack altogether
believe, a cheaper box but it is intended to be an econo in packing. It has not measured up to the expectatio of those who have introduced it and the O. U. G. are not advocating its use this season. It had its plac for a time because it enabled those who did not fee like expending a big sum on packers for their fruit which was going out to a very uncertain market at the Everything off the tree is year previous to that crates. It is a package expected "o go into thes that is you must pack your No. 1's as well as Run 3 's in it and there is where it falls down. The yrover are tempted to pick out their No. 1's and pack them up especially and let all the others go, but that is not the mission of the crate, nor what the consumer expeci to find in it
ve a cut of the

largely held b
induced to giv
have come fro
geir goods done
they learne
is held by the xtreme and ther
high in side of is high in the es
quires skilled anc ot to do away with extrem
gether.
are trying to the O. U., G It had its place eir fruit which market at the
go into these ell as your No.
and pack them and pack them consumer exp
nor favor that it made the first season and as soon as these orchards with poor varieties are re-planted or top worked it will pass from use altogether, and if that is ever adopted.
if that is ever adopted. Walter M. Wright.
B. C.

## Horticulture in School Work.

Editor "The Farmer's Advocitic": A departure in public school work with gratifying
mas made in Ottawa during the past results was made in Ottawa during the past
season under the direction of Dr. J. H. Putnam, chief inspector. Three lots of waste land, each 50 feet by 100 feet, were secured by foan and devoted to the the intermediate grade of three schools, under the personal direction of one of the regular staff of teachers especially well qualified for the duty partly through her early life being spent on a farm. The work was made a part of the regular class schedule of studies from the middle of May until the end of June. Twothirds of the space was devoted to plots of and their 3 feet for two pupils, each having an end and their
choice of three or four kinds of vegetable seeds. From an educational point of view and otherwise the results are reported to have proved most satisfactory and a participate. Really surprising results were attained in the growth of flowers and vegetables and the large bed set aside for community work made the general effect more impressive. The scheme had the advantage of the co-operation of Prof. W. T. Macoun, were the school authorities with the achievement that they designated one of the teaching staff to take a special course at the Ontario Agricultural College in order trained hands.
Middlesex Co., Ont.
"Alpha" writes: "Nearly every season with the approach of freezing weather a good many unripened of them might be used for pickling and kindred purposes. As has been suggested by one writer they may be ripened indoors in a hot-bed if picked before the
frost touches them. I have found a light frame covered ripened indoors in a hot-bed if picked bere ered
frost touches them. I have found a light frame covered
with coarse canvas, doubled, better in some cases than with coarse canvas, doubled, better in some cases than a October day will generate so much heat as to almost cook the tomatoes beneath. Even with very
little sun or heat tomatoes fairly well matured and little sun or heat tomatoes fairly well matured and placed on shelv
a bright color.

## POULTRY.

## Roup in the Flock.

The cold, damp days of fall and early winter often-
trouble for many poultrymen. The birds, times bring trouble for many poultrymen. The birds, not established in their winter quarters, are frequently
exposed to direct draft or are possibly housed in im-
perfectly ventilated buildings. The result, in many cases, is an outbreak of catarrh followed by roup. The former is the forerunner of the latter and both fed birds coming in contact with the disease organisms. The disease can be carried from one bird to another by particles of the dried secretion, through the drinking fountains, or by birds feeding on infected ground. Attendants may also spread it. Birds have been known to contract the disease at shows and spread the trouble through the entire flock. Care should be taken to avoid this as it is difficult to effectively treat the disease. Some birds may show symptoms for months
spells of damp cold weather cause fresh outbreaks. At first the bird appears to have a cold, is fevered and does not care to move. There is usually a discharge
from the nasal opening of thin, watery material. In a day or two this becomes thick and obstructs the and extends to the eyes, in time closing them. In fact, they are often glued together by this secretion.
The nostrils become sealed by a cheesy growth and the mouth filled with fibrinous material. Tumors form and the head is very much enlarged. Owing to the air passages being closed, the birds sneeze a good. deal
in an attempt to free the passages. Most poultrymen in an attempt to free the passages. Most poultrymen the birds are unable to see or eat and usually die within a week. However, many apparently recover although a source of infection. Of course, all birds do not show some of the pronounced symptoms mentioned. They may have the disease in a mild form and completely recover in a few weeks if given proper attention.
Turkeys as well as hens are subject to attack. When the disease is first noticed in the flock the affected birds should be removed and the yards and houses thoroughly disinfected with some material such as creolin, zenoleum mended is to give each bird that is whicted one teaspoonful of dry salts and bathe the head in a weak solution of any of the commercial roup cures, or a five per cent. solution of potassium permanganate. Some poultrymen carefully wash the eyes and nose of the bird twice a day with an antiseptic solution, such as two
per cent. boracic acid in chamomile flowers. Pressing the nostrils together between thumb and finger tends to loosen the discharge. Placing the bird's head in a solution of permanaganate of potash is also found
to be effective. When solid tumors form it may be necessary to operate and apply a five per cent. solution cures used according to directions on the package have saved many flocks. Treatment by any of the methods mentioned requires considerable amount of time, and unless the birds are a valuable kind it is doubtful if it pays to treat advanced cases. At this time of the year a little permanganate of potash should be put in the drinking water. This tends to prevent spread-
ing of disease and in slight cases will in itself effect a ing of
cure.
An endeavor should be made to prevent all sources of infection and to keep the birds in a healthy condition. Strong, well-nourished fowl are not so likely to take
the disease as are weaklings, and if they do take it their system is stronger to throw off the effects. All utensils used in feeding and caring for the poultry,
together with the houses and yards should be frequently
disinfected. Keep the pens dry and well ventilated and if any of the birds show symptoms of the disease that die should be buried deeply or burned. Growing chicks never mature as rapidly if they are subject to attacks of catarrh, or roup, and mature stock cannot be expected to lay while their system is fighting disease. The flock that is kept healthy at all times is the most profitable. It is impossible to keep all the birds healthy all the time, but by keeping the pens in a sanitary condition and isolating all sick birds as soon as trouble is noticed the mortality in many

## FARM BULLETIN.

## East Middlesex Notes.

Editor "The Farmer's Advocate": ight showers, and some parts of the district have had few fairly heavy showers. There is doubtless no part that has had enough rain the past two months, and we don't know of any crop that this lack of moisture has benefited. Corn usually stands dry weather fairly well, but with the exception of a few patches the most of this crop is on the light side. patches the most of this crop is on the light side. the best of any. What little flax we have seen, so far, looked fairly good, but we haven't seen enough
yet to make a statement of much value. Gangs of yet to make a statement of much value. Gangs of
Indians are busy pulling it, and they generally live Indians are busy pulling it, and they generally live
right in the field in a tent. The new potatoes are firm and dry and of good quality generally, but rather scarce in the hill and small. The apple crop will be below the average, but plums are fairly plentiful. We are too far north to grow peaches or grapes for market. The acreage of fall wheat will be curtailed, because the prospects for fall growth are very poor to date (Sept. 12). Most of the land was plowed late which
is another disadvantage, so that altogether the prospects is another disadvantage, so that altogether the prospects
are about as bad for this crop as they ever are. We are about as bad for this crop as they ever are. We haven't seen any grain threshed yet, poor to fairly seem to vary a great deal from very poor to fairly
good. Some fields here and there have done even better than the average, but where drainage was
poor (and that is on most of the farms) the yield will poor (and that is on most of the farms) the yield will
be far below the average. The prospects are strong be far below the average. The prospects are strong
for very dear grain this winter. We are informed that weaned pigs are selling nearby at $\$ 2$ per pair, and prospective brood sows at $\$ 17$ each, while in other places nearby a sow will bring $\$ 3 \mathrm{~J}$, Evidently
there is considerable uncertainty about the profits there is considerable uncertainty about the profits in pigs just now. The consumer of pork in the city
doubtless believes that the pig raiser is getting rich quick, but with feed prospects what they are now quick, but with feed prospects what are willing to sell. Beef cattle prices have also dropped, so that those grazers who bought early will have but a small profit. Prices for farm produce are good, but if there is nothing in a marketable form and it cannot be fitted, the consumer will have to pay still more before the farmer can get his H. Bcrasit.
Middlesex Co., Ont.

## Halifax Exhibition Enjoyed Fine Weather and Large

The Halifax Exhibition was staged under very were ooncerned, but throughout the country farmers were harevesting, their triutitaut ond otorer crops, ard, and
suffering from lack of help, they could not attend in numberrom as larke an hel help, they could not attend
of the best men of the Maritime Prould. Many of the best men of the Maritime Provinces are over-
seas or in training and ootten those iron-clad grey-
hounds that hounds that patrol the Seven Seas glide into the
harbor and, without word or warning, convey away harbor and, without word or warning, convey away
the transport ships laden with Canadian troops
destined to repeat the heroic deeds sum and Flanders, there Ypres and St. Julien. All this movement of troops
goes quietly on and there is nothing to suggest he
departure of any regiment excent the presence of the goes quietly on and there is nothing to surgest the
darge stere on any regiente txept the presence of the
laters and the cruisers ort destrovers that have guarded the transportations of of sotroyers that have

souls across without a single | $\begin{array}{l}\text { souls. across without a single accident. } \\ \text { under-lying current of atmosere is an } \\ \text { savere which of }\end{array}$ |
| :--- | under-lying current of atmosphere which savors of

war both on land and sea, but that is the business
of the War Office. After to the wervicfice of the Empire giving its sons and husbands
the
tentry down by the sea goes about its business and country down by the
stances The dairy industry is becoming a very important
enterprise in the Eastern Provinces and one world enterprise in the Eastern Perovinges and one would
not be surprised to find its representative cattle the
stron sur strong link in the live-stock department of the Ex-
hibibition. Dairy hibition. Dairy cattle made a splendid showing;
beet cattle were light, sheep were fair, and the swine
pens were pens were almost forsaken. Horses (breeding classes) good not exceptionally well filled but there were some
Eintr Fairs individuals brought out. The fact that no
Find be held this year in New Brunswick dis-
courayed some eutraged some of the breeders from getting their
ent ies int high-lass for and others from coming out
at all. However, any live atd at all. However, any life-stock man of the Maritime
Provinces could ill aftord to remain Provinces could ill afford to remain at home and frail
to see the exhibit brought together in the buildings
on the fair the fair grounds.
It was rather early in the season for a show of

## Attendance.

monn plate exhibits of apples, pears and plums were to
be seen. The real fruit show is conducted at a more opportune time. Field roots and garden vegetables
had a large number of entries and the display of potatoes was exceptionally large and of good quality. Seldom wasudd its superior be been any where. Several entries
wo cereals were on hand. They were good in color and quality.
The poultry building was not completely filled, but there was a commendable showing made here. Barred Rocks. were plentirut and white wyandotetes, white
and Brown Leghorns, Orpingtons and several fancy breeds were represented. Turkeys, geese and ducks were also present in their respective groups.
The
Dominion
Department
The Dominion Department of Agriculture's wool exhibit was worthy of considerable study now
that the fleece commands such a price. The show that the fleece commands such a price. The show dairy exhibit was well arranged and very educative, The display of canned fruit and the exhibit of yreen
 College attracted many visitors. Ifw aniother of iliding taken from a Nova Scotia mine. "All that glitters is not gold, "but this was the actual material and valued at $\$ 25,000$. On the other side was a pillar of
coal taken intact from the seam in which it had lain. coal taken intact from the seam is which is the goid. The coal was not worth quite as much as the gold which lies beneath the surface. Many other types great.resources of the province . intended to stimulate an interest in good roads. Several models were prepared to show the proper care of the common earth road, the construction of the Telford
and Macadam roads, and how they should be main-
 the Exhibition representatives gathered from al parts of Nova Scotia and organized a Good Roads
Association. They ate not endowed with any great Association- They are not endowed with any great
dministrative powers, but it is felt that public aministrative powers, but it is felt that public
sentiment in favor of better highways must be awakened and the Association can assist in this regard. Statute Labor has not proved astisfactory except in particular cases. Some more efficient method is desired. One striking exception to this san instance in King's County where a lady is overseer. She has ben able to show good results and
her accomplishments have been gratilying to the Department.

## dairy cattle.

The dairy cattle at Halifax made a splendid showing and in the many classes were individuals that Canada this year. Considering numbers and quality the Ayrshires probably should rank first. Holsteins the Ayrshires probably shors strong and there was a fairly good exhibit of Jerseys. The Holsteins and Ayrshires were judged by Alex. Hume, Menie, Ont., Ayrshres Jerseys and Guernseys by Gordon Duncan,
and the Don, Ont.
Ayrshires.-The breders of the Maritime Procinces can make a very high-class showing of Ayr-
chires. This was proven at this Exhibition where shires. This was proven at this Exhibition where
five exhibitors of the breed made entries and gave five exhibitory of the breed made entrides abd gave
to the dairy-cattle department considerable tone. In some cases the younger stock was not in high showIn some cases the younger stock was ent in
fit, but it was thrify and all the contries conformed very closely to the type and character desired. At vo fair in Eastern Canada this year has there been no bunch of Ayrshire females showing better udders or more correctly placed teats. The three Maritime
Provinces were represented by Moltyre Bros.,
 N. S.; John Retson, Truro, N. S. . Prescott Banchard,
Truro, N. N.; A. MacRae \& Sons, Charlotetown,

There were only two aged bulls forward. Morton Mains Amantha was placed first and he would go
to the top in even stronger competition. He is one of the good buils, that have been shown this season, and would compare favorably with the best. His quarters are not so correctly carved out as they might be, but apart from that his conformation is very much
Ayrshire. Hobsland's. Tunphie's Heir was a good. Ayrshire. Hobsland's. Tunphie's Heir was a good.
stiong Duif, but a trifle thicker in some parts than the
Highf
Highfield Shepherd was alone in the two-year-old class, but would have shown well against some op-
position. The winning junior yearling Pompey position. The winning junior yearling, Pompey of Pill, in second place, also had a good rib and considerable masculinity: A very promising bull calf was first in its class. This was Hillside Peter, a half-brother to this year's Toronto champion. His conformation and quality are such that good things are expected of him in the future.
Eleven dry cows made up a class that would be
hard to duplicate. It contained champions and the
dams of champions. First came Howie's Bright Lady, dams of champions. First came Howie's Bright Lady. She is the dam of the Toronto champion this year
and is herself by Peter Pan. It would be unkind to criticize this big, typey cow and in fact it would be
difficult to do so unless one were to say that she does not handle quite so well as some others. Bonnie Sweet Bessie, last year's champion, was second and,
like the winner, her udder and teats were riht like the winner, her udder and teats were right. She has great capacity and splendid character. Clerkland, in third place, was not greatly inferior to the winning two and in less stren
been a red-ribbon cow.

The champion for 1916 was found in the class of aged cows, in mik. Here Nellie of Springbrook Farm, was placed first. Her udder and teats were very Apart from her system, especially designed for milk production, she was strong and typey and showed much the same type as the winning cow. She had been milking for some time, however, and was not in such good bloom.

There were three good individuals at the head of the three-year-old cow class. Fairvue Queen
2nd was first, an honor won by a strong constitution, good quarters and a very nice a udder. She was only twelve days too old for the heifer class and did not show her best with the three-year-olds. Hillside Bunty spectively and both good individuals.
The two-year-old heifers were not so outstanding
some of the other classes. Fairvue Lilly 2 nd as some of the other classes. Fairvue Lilly 2nd The the class with Hillside Beifer has a good shoulder and splendid quality. One dozen senior yearling heifers made a strong class. Eastcourt Elsie, a deep, typey heifer was placed first. She had a well-sprung rib and good second which was no small honor in such company. Fairvue Helen and Fairvue Gurta were next in order. The junior yearling heifers were a typey bunch. Springbrook Alice, which was never beaten in her class,
went first, with Hillside Bunty 2nd following next in order. Pink 2nd, a deep, sweet heifer, was third. Awards.-Aged bull:1, McIntyre, on Morton Mains
Amantha; 2, MacRae, on Hobsland's Tunphie's Heir. Buantha; 2, MacRae, on Hobsland's Tunphie's Heir.
Bull, 2 years: 1, McDonald, on Highfield ${ }^{\text {Shepherd. }}$
Bull, junior yearling: 1, McIntyre Bull, junior yearling: 1, McIntyre, on Pompey of
Arniston; 2, Retson, on Pink Pill; 3, McDonald, on
Rockland Walter. Bull calf. Rockland Walter. Bull calf: 1, Blanchard, on Hill-
side Peter; 2, MacRae, on Fairvue Chancellor; 3 McIntyre, on Springbrook Jerry; 4, Retson, on Early
Blossom. Dry cow: 1, Blanchard, on Howie's Bright Lady; 2 and 4, MacRae, on Bonnie Sweet Bessie 1, MacRae, on Nellie of Springbrook Farm; 2, Mc Intyre, on Springbrook Nellie; 3, Blanchard, on Ardyne Perrection. Cow, 3 years: 1 and 4, MacRae, on
Fairvue Queen 2nd and Fairvue Evangeline; 2 and
3, Blanchard, on Hillside Bunty fection. Heifer, 2 years: 1, MacRae, on Fairvue and Hillside Perfection; 4, McDonald, on Enchantress 2nd. Heifer, senior hearling: 1, Retson, on East-
court Elsie; 2, McDonald, on Jean 2nd; 3 and 4, MacRae, on Fairvue Helen and Fairvue Gurta. Alice; 2, Blanchard, on MeIntyre, on Springbrook
McDonald, on Pink 2nd. Heifer calf: 1, 2 and 4 , Lilly and Springbrook Lady Opal; 3 , Blanchard, on Hillside Rose 3rd. Champion bull: McIntyre, on
Morton Main's Amantha. Champion Rae, on Nellie of Springbrook Farm. Aged herd:
1, MacRae; 2, McIntyre; 3, Retson. Young hate
 three of his get: 1, MacRae. Cow and two of her
progeny: 1, McIntyre.
Holsteins. The black and white dairy cattle made one of the strong breed showings of this depart-
ment. Four breeders were there with more than half a hundred head, some of which are known as great producers and others as the parents of good individuals.
S. Dickie \& Son, Onslow, N. S., brought forward some splendid cows; Walter Lea, Victoria, P. E. I., had some Bros., Wellsford, N. B., had covered stuff; Harding circuit and pulled into Halifax with about eighteen head. Their herd was somewhat weakened by the
strain of showing and several sales, but they captured strain of showing and several sales, but they captured
a good percentage of the ribbons. John J. McCabe Lea had the first-prize aged bull and champion
in Ida Rooker's 2nd Dale, a sire that has been several times champion in the East and has got some good stock. He was deep, strong and showed dairy had plenty of scale and will develop into a, big bull. He is by Schuiling Sir Posch the Toronto champion in 1909-10. Percila Schuiling Posch, the best senior yearling, was also up to standard for size and a promisyearing, was also up to standard for size and a promistypey fellows with good lines, conformation and quality. At the head of a very strong class of dry cows stood Miss Lahonda, the sensational winner of the Amherst dairy test in 1914 with a total score of 332.57 points. in Canada. With all her prost public, three-day score in Canada. With all her producing ability she is still excell typey cow with a beautiful shoulder, long quarters, She was ultimately good conformation throughout. of the breed. Cobequid Helbon Nellie in emale place, was another of the big, typey, useful kind. The third prize went to Shadelawn Olinda 2nd, a cow of excellent quality, but a trifle too thin to show at her best. A cow with excellent veining and other good qualities, Mercena Artilissa, was fourth. The aged cows in milk brought out another lot of good ones. Maggie Abbekerk went into first place but she did not show at her best for she had been milking since January. She had great capacity and handled well. test as a grand milker, was proven herself in public for second place. Her large udder was well enough and her conformation was such as to insuregood working capacity.
The three-year-old cows made a good class, at the
Mead of which was Princess Patricia Rooker.
quarters and barrel, was placed first in the class for yearlings was and the winner of the senior sired by the champion bull. Another heifer fry thing Island, Mary Mercena Jewel, was first in from the yearlings. She was good in conformation in the junior well fitted.
Awards.-Aged bull: 1, Lea, on Ida Rooker's 2nd years: 1, Harding, on Sir Faforit Schuiling; 2, McCabe. Bull, senior yearling: 1, Harding, on Percilla Schuiling Posch; 2, Dickie, on Prince Colantha Canary 1 B.; 3, Lea, on Sir Robert Rooker. Bull, junior yearling: Dry cow, aged: 1 and 2 Dickie, on Miss Lahonda and Cobequid Helbon Nellie; 3, Harding, on Shadelawn on Maggie Abbekerk and Cobequid Helben Dickie 2, Lea, on Island Maggie Dequid. Cow, 3 years: 1 Lea, on Princess Patricia Rooker; 2, Dickie, on CobeGirl. Heifer, 2 years: 1, Harding, on Madolind Posch Faforit; 2, Dickie, on Duchess Alice Segis; 3, McRooker Vale; 3, Harding, on Faforit Seventh's Posch. Heifer, junior yearling: 1, Lea, on Mary Mercena Jewel;
2, Harding, on Portia Faforit Posch. Heifer calf: 1 and 3, Dickie; 2 and 4, Harding; 5, Lea. Champion
bull, Lea, on Ida Rooker's 2nd Der female: Dickie, on Miss Lahonda. Aged herd: 1, female: Dickie, on Miss Lahonda. Aged herd: 1
Dickie; 2, Lea; 3, Harding. Junior herd: 1 and 3
Harding 2 Harding, 2,
Cow and tw Cow and two of her progeny: 1, Lea. Four, the get
of sire: 1, Lea; 2, Harding; 3, Dickie. Three the
get of sire. 1, Lea; 2, Harding, 3 Dickie. Guernseys.- The Guernsey has not been popular-
ized in Ontario so much as have other dairy but in Nova Scotia they have gained a foothold and paid to them they develop into large, useful cows of grand quality, and their records in the United States
show them to be heavy and economical producers Roper Bros., Charlottetown, P. E. I., H. W. Corning, N. S. In addition to this a few head were shown by
Allison MacDonald and John MacDonald \& Son Faulkener \& Hill, Great Village, N.S. D. Blakie and
Championship in males went to the aged bull, Island Prince of Hillside, a strong sire of good dairy yearling heifer, Dolly Charlotte. She was a sweet Awards.-Aged bull: 1 and 2, Corning, on Island 3, MacKay, on Lord Trim. Bull, 2 years: 1, Roper, on Myra's Jim; 2, Corning, on Rose's King of Hillside, Faulkener \& Hill. Bull calf: 1, Corning; 2, Macof Eastview; 2, Corning, on Buttercup Blanche of
Hillside: 3, MacKay, on Queen Bess of Dixie Len maid of Hillside and Lady Sunbeam of Hillside: 3
Roper on Helen. Roper on Helen. Cow, 3 years: 1 and 3 , Corning,
on Dairymaid's Primrose of Hillside and Beauty's
Nancy of Hillside; 2, Roper Nancy of Hillside; 2, Roper, on Beauty of East-
riew 3rd. Heifer, 2 years: 1, Corning, on Pink Rose Kay, on Beauty of Spruce Grove. Heifer, senio earling: 1, Roper, on Dolly Charlotte, 2, MacKay

Beauty's Queen. Heifer calf: 1, Corning; 2 and
McKay. Champion bull; Corning on Island Prin of Hillside. Champion female: 1 , Roper, on Dol
Charlotte. Aged herd: 1 and 3, Corning; 2, Rol Charlotte. Aged herd: 1 and 3, Corning; 2, Rop
Young herd: 1 , Roper; 2, Corning; 3, MacKay. B and three of his get: ( 1 , Corning; 3, MacKay. A
her offspring: 1, Corning. Cow and tro her offspring: 1 , Corning.
between the herds of H. S. Pipes \& Son was mios N. S., and Cann Bros., Chegoggin, N. S. Blake Br N. S.; each had a few head and won some of the money. Cann's herd was in very good fit, but Pin entries proved slightly superior in show merit. His Reverence, the winning aged bull and champion, carried a good shoulder and was had splendid capacity and excellent quality Prince. He has many of his tight Knight, by E and is a promising bull. The winning good qualit hampion Blue, sired by His Reverence and out of the called out some good individuals. The dry-cow Liberty Pink, a cow of good quality. Cann shend with Nellie of Drafan, last year's chamnit She is both a show cow and a producer with a record The aged cows in milk were led by
The aged cows in milk were led by Blood's Choi milking ten months and did not show She had be advantage, but her veining was well her udder was made female champion over all marked. s Queen was the second-prize winner and last yeal winner of the dry class. Lady Maud H. came She too has proved herself a good producer of and butter

Fox's Flossie was proclaimed the best of the three and was not in bloom, but she was typey and had good conformation
Awards.-Aged bull: 1, Pipes, on His Reverenio 2 Cann, on Figgis's Fox's Gem Fox; 3, Blake. Bul Pipes, on Ben Blue; 2, Cann, on Signor Breni. unior yearling: 1, Cann, on Lord Kitchener; 2 an , Pipes. Bull calf: 1, Pipes; 2, Cann; 3, Latha Dry cow: 1, Pipes, on Liberty Pink; 2, Cann, , Pipes, on Blood's Choice; 2 and 3, Cann, on Fo hall's Queen and Lady Maud H. Cow, 3 years: 1 an 1, Pipes, on Brampton Winnie. Heifer, 22 yean , Cann, on Florence Cann. Heifer, senipr yearlinj Heifer, junior yearling: 1, Cann, on Miss Malind 2 and 3, Pipes, on Cressey and Miss Perfect. Heile calf: 1 and 2, Pipes. Champion bull: Pipes, on Hi Reverence. Champion female: Pipes, on Blood Choice. Aged herd: 1, Pipes; 2, Cann. Youn
herd: 1, Pipes; 2, Cann. Bull and three of his pet 1, Pipes; 2, Cann. Cow and two of her offspring:
1, Pipes; 2, Cann.

## BEEF CATTLE.

out prominently exainstion beef cattle usually stand out prominently against the different classes of stock,
but this year the breeders of Ayrshires, Holsteins and Guernseys eclipsed them by the showing they not too well fitted, but this was true in all breeds for the small number of exhibitions in the Maratime Provinces this year was no incentive to extensive
preparations. Lack of help and other factors, combined to bring down the exhibit of beef breeds below their normal standard. The awards were made in this department by Chas. Calder, Shorthorns.-The Shorthorn exhibit was not so J: M heary year as it has formerly been. Two exhibitors, Griffin, New Minas, N. S., afforded the competition The, island herd was stronger in numbers and won the Stately Monarch by Proud Monarch was the only younger entries. The sire of this bull is well known has good character, is straight in his at this fair an all-round good bull. Prince. Charlie and White Monarch, the first and second prize senior calves were
The champion female was found in the two-year-old heifer class where Allandale Rosedrop was first and showed more character about the head but Sootch Wings 2nd and Roan Peach the winning senior and females yearlings respectively were promising young Awards.-Aged bull: 1, Laird, on Stately Monarch,
Bull, senior calf: 1 and 2, Griffin, on Prince Charlie and White Monarch. Bull, junior calf: 1, Grifin, Aged cow: 1, Laird, on White Blossom. Cow, 3 Lears: 1, Laird on Peach. Heifer, 2 years: 1 and 3 , 1 and 2, Griffin, on White Wings 2nd and Lady Stately: 3, Laird, on Lee Anna. Heifer, junior yearling: 1 and 2, Laird, on Roan Peach and Emily of Edgewood. Heifer, senior calf: 1, Laird. Junior calf: 1, Laird;
2 and 3 , Griffin. Champion bull: Laird, on Stately
Monarch. Champion female: Laird, on Allandale

## Rosedro Grifinn.

Hereforcls.-William O'Brien, \& Sons, Windsor N, S. showed about twenty head of pure-bred Herefords and a number of grades. They had no competition in this breed which usually brings out several
breeders at Halifax. Princeps 33rd by Princeps 22nd was made champion bull. He was exhibited in the aged class. The champion female was Helena,
a three-year-old cow sired by Rupert Ingleside 4th. Aberdeen Angus.-Horne Bros., Winslow, Sta., P. E. I., exhibited fourteen head of Aberdeen-Angus, but had no competition.

Devons.-Wm. Pinkney, Melborne, N. S., was the only exhibitor of Devon cattle.

## HORSES.

Of the draft breeds Clydesdales were outstanding. The two most extensive exhibitors were McFarlane Bros., Fox Harbor Point, N. S., and R. A. Snowball
Chatham, N. B. Eight aged stallions were forward and first place went to Snowball's entry, Baron's N. S., had the second-prize candidate in Gold Nugge by Scottish Crest. McFarlane Bros., were third and
fourth with Borland Crest and Baron's Squire. The fourth with Borland Crest and Baron's Squire. The
former horse is by Scottish Crest and the latter by Baron's Pride. Snowball also won in the two year-old stallion class with Kelvin's Pride. This first-prize yearling stallion and reserve champion was Iock of Glendhort shown by McFarlane Bro Nell Bowie by Golden Chief was the winning yel mare and champion female. She too was exhibited by McFarlane Bros., who added to their list of winnings second in the brood mare class on Bess, Spencer by Sir Spencer and a first on the same mare's filly foal yearling. Snowball showed the first-prize brood mare Rose Litterty.
The champion Hackney stallion came from the
hatham stables and is known as Filgrove Royal Chatham stables and is known as Filgrove Royal John. All Fire the champion Hackney pony was
shown by the same exhibitor. Hywel's Queen Rose was champion Hackney female for Barton Mitchell, In heavy draft horses in harness Frank Archibald,
Truro N. S., showed a splendid heavy team that atTruro, N. S., showed a splendid

## SHEEP AND SWINE.

A fair exhibit of sheep occupied the pens and many different breeds were represented. The principal $\begin{array}{lll}\text { exhibitors were as follows-Lincolns: A. A. A } & \text { Boswell, } \\ \text { French Fort, P. E. I., and Wm. Pugsley, } & \text { Minudi, }\end{array}$ N. S., Leicesters: Lane Boswell and T. Boswell Cotswolds: John Tweedy, Earncliff, P.E. I.; Cheviots Vernon, P. E. I.; Oxfords: J. E. Baker \& Sons, Barrons field, and J. M. Laird \& Son, Kelvin Grove, P. E. I.;
Hampshires:Cephas Nunn and Almond Boswell, Marshfield, P. E. I.; Suffolks: Horne Bros., Winslow, Saunders, Winslow, and Elizah Saunders Winslow Shropshires: Geo. Boswell, French Fort; Dorsets
Geo. Boswell, French Fort and A. C. Servant, Overto The principal exhibitors of swine were-Berk shires: J. R. Semple, Tatamagouche, N. S.; McFarlane Griffen, Port Williams, N. S. and Roper Bros.; Cheste
Whites: Howard Corning and Jas. Nicholson, Halifax
Duroc Jerseys: G. E. Baker \& Sons.

A New Agricultural School for

## Eastern Ontario

A new agricultural school is to Destablished through the Ontario Department of Agriculture for the purpose It is to be a large proportion of Eastern Ontario. It is to be located on land which has been secured adjacent to the town of Kemptville, in the County
of Grenville. Plans for the buildings and for organiz of Grenville. Plans for the buildings and for organizing the work are being undertaken at once. it is
anticipated that the total capital cost will be in the anticipated that the total capital cost will be in the
neighborhood of $\$ 100,000$, to be financed with the neighborhood- of $\$ 100,000$, to be financed with the
aid of monies received under the Federal Agricultural Instruction Act, an agreement to this effect having just been approved by the Minister of Agriculture at "fhe purpose of the school," said the Hon. J. S. able practical education in agriculture and domestic science at a point which will be readily accessible, and involve a minimum of expense to the students. being done in the Province, unless it is to some extent the first two years of the course at the Ontario Agricultural College. Our experience in District number of young men between the ares is a large and twenty-five who have left school, and yet who would like to take advantage of further education in their chosen vocation if it can be secured reasonably conveniently. There has also been indicated a demand for education in Domestic Science among the young women in the rural districts, and it is the far as far as it is possible to in this institution.
Atrined later in conference with 0 . I may say that it is our intention 0 . A. C. officials, as useful and practicable as possible. In agriculture there will be no course longer than two years, and there will also doubtless be a number of short courses It is possible that the term will extend for only about five months in the winter season, and a diploma granted at the end of two terms. While arrangements might be made to have this diploma entitle a student to admission to the Ontario Agricultural College if he clesired to enter the College at the third year, it to further qualify on their qualifys nection with the school except that which may needed for experimental purposes, will be used be practical farming proposition putting in- use the best methods available. No doubt in this institution Dairying will be the line adopted, so as to render the maximum service to the community which is so largely engaged in this industry. The course in Domestic Science would, no doubt, at the outset at least be mainly short courses of perhaps three months' duration. exercised. It was, of course, obvious at the outset that an institution of this kind should be located in Ontario. Different localities were considered, but the present selection was finally adopted on the investigated the matter. Kemptville, which is a progressive town in the heart of a very thrifty agricultural section, is admirably served by railways from the north, south, east and west, and thereby immediately serves the Counties of Dundas, Carleton; Russell, Leeds, Lanark and Grenville, but it is also splendidly convenient to the majority of the counties of Eastern Ontario. The farm practically joins the town. It
is crossed by the Prescott and Ottawa $C$. $P$, $R$. line and is butted on the south by the Toronto and Montreal main line, and also fronts on the proposed
transportation facilities it is also true that the whole surroundings and atmosphere is rural in nature, stitution of this kind
"Plans are under way for the necessary buildings and equipment. There will be one main building of considerable size which will afford class rooms an smalter buitaings for tive stoct and se d be othe as the usual farm buildings. It is not proposed to erect dormitories, as excellent board and lodgosing cal be secured in the town at reasonable rates, Just hoviv rapidly the work of construction can be pushed forward may depend somewhat on the progress of the war, but in any event it is expected that this institution will be ready to take an important place in the after-

## Horses Versus Tractors in War.

## EDITOR

Columns have been written to show that horses and mules are no longer needed in war. Every metro politan daily has been flooded with press notices of the elimination of Dobbin and his ally, the mule The value of automobiles and tractors, and their ability to go across deserts and mountain trails where ackrabbits could scarcely progress, has been blazoned o the world by writers whose talents should be devoted 0 writing best sellers a la Chambers. It may brin peruse the these disciples of Munchhausen Sta earth to ment, through the Bureau of Foreign Commerce, has definite, detailed data on exports. Such data has been furnished the writer.

From September 1, 1914 to June 1, 1916, the United States exported 30,411 commercial automobiles, valued at $\$ 81,295,986.00 ; 69,803$ passenger automobiles, valued at $\$ 57,623,261.00$, and 22,502 motorcycles, valued at $\$ 4,202,887.00$-a grand total of 122,716 | motor driven vehic |
| :--- |
| of |

Against these exports, which have caused the otor-driven knights of the fountain pen to indulge in ecstatic paeans of joy, regarding the elimination of horses and mules, the cold figures show that durin the same period-September 1, 1914 to June 1, 1916 - 611,790 horses, valued at $\$ 134,943,456.00$, and 167,387 mules, valued at $\$ 34,198,955.00$, were exported-a total, in value, of $\$ 169,142,411.00$.
This overshadows, very handily, the total of exports motor-driven vehicles. To the exports of horses and mules, however, we must add the exports of wagons valued at $\$ 25,739,015.00$.
The grand total for horses, mules, wagons, harness and saddles, exported during the 21 months ending une 1, 1916, comes to $\$ 197,343,037,00$-almost two hundred million dollars. This exceeds the exports of motor vehicles by more than fifty-four million dollars, and is conclusive evidence that horses and mules are far from being back, numbers in war.

## Wayne Dinsmore. <br> Sec. Percheron Society of Americ

Silo-filling has progressed favorably in Western Ontar.o during the past ten days. The corn was not, on most farms, a good crop but it has bulked up con-
siderable feed and has gone in the silo in good condisiderable feed and has gone in the sito in good condition. A severe frost condition than is usually the case. Too much moisture is not good.

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

## Toronto.


 steady although quality very poor.
Sheep, lanto and calves active at last
neek's closing. prices. Hoss law week's clos.ng. prices. Hogs, slow, at
40 to 50 cents Iower.
The The total receipts of live stock at
the City and $\begin{aligned} & \text { anton } \\ & \text { the past week were: }\end{aligned}$ Stock Yards for

## 

The total receipts of live stock at
the two markets for the corresponding week of 1915 wer

The combined receipts of live stock show an increase of 2,972 cattle, 3,924
sut hogs, 2,271 sheep, but a decrease of
14 cars, 45 calves, and 3,756 horses, compared
of 1915 .
The quality of cattle did not improve any this past week, the majority sold lower than the previous week.
Butcher steers were from 20 c . to 30 c . and sold as quoted below. Canners and cutters were also active. Bulls
were steady, especially Bologne bulls. were steady, especially Bologne bulls. cially good quality animals. One firm
which purchased 400 has an order ifor which purchased 400 has an order ifor
4,000 . Milkers and springers are active 4,000. Milkers and springers are active
to firm. Lambs sold as high as $\$ 11.20$ on Monday, but with a run of nearly
5,000 on Thursday they declined to $9,4 \mathrm{c}$. to 10 c . per lb. Sheep we demand, and remained steady through the week. Hogs were strong and sold
readily at $\$ 12.65$ to $\$ 12.75$ for fed and readily at $\$ 12.65$ to $\$ 12.00$ for wed and Butcher Cattle.-Choice heavy steers,
$\$ 8.25$ to $\$ 8.50$; good heavy steers, $\$ 8$
to $\$ 8.25$; choice, $\$ 7.65$ to $\$ 8$; good,
$\$ 7.25$ to $\$ 7.50$; medium, $\$ 6.60$ to $\$ 6.85$; common, $\$ 5.75$ to $\$ 6.25$. Cows, choice,
$\$ 6.25$ to $\$ 6.50$; good, $\$ 5.80$ to $\$ 6.10$; medium, $\$ 5.50$ to $\$ 7.75$; common, $\$ 4.75$ to $\$ 5.25$. Canners and cutters, $\$ 3.50$ to $\$ 4.75$. Bulls, best heavy
$\$ 7$ to $\$ 7.25 ;$ good, $\$ 6$ to $\$ 6.75$; common, $\$ 5$ to $\$ 6.75$. Milkers and feeders, $\$ 55$ to $\$ 100$. Spring lambs, springers, $91 / 2 \mathrm{c}$. to 10 c . per 1 b. ; common, 7 c . to
8 c . per lb . Light, handy sheep, $61 / 2 \mathrm{c}$. 8c. per lb . Light, handy sheep, $61 / 2 \mathrm{c}$.
to 8 c . per $1 \mathrm{~b} . \mathrm{h}$ heavy, fat sheep, 4 c .
to $51 / 2 \mathrm{c}$. per lb . Ve, (12c. per lb. Hogs, $\$ 12.65$ to $\$ 12.75$, off cars. Less $\$ 3.50$ off sows, $\$ 5$ off
stags, $\$ 2$ off light hogs, and stags, $\$ 2$ off light hogs, and one-half
one per cent. government condemnation
loss. Breadstuffs.
Wheat.-Ontario, No. 1 commercial,
$\$ 1.25$ to $\$ 1.28$; No. 2 commercial, $\$ 1.25$ to $\$ 1.28 ;$ No. 2 commercial,
$\$ 1.21$ to $\$ 1.24 ;$ No. 3 commercial,
$\$ 1.17$ to $\$ 1.20 ;$ No. 2 new crop, $\$ 1.33$ to $\$ 1.35$. Manitoba (track, bay ports)$\$ 1.651 / 2$; No. 3 northern $\$ 1.63$ northern Oats.-Ontario, No. $\$ 1.63$.
54c.; No. ${ }^{3}$ white, ${ }^{2}$ white, 52 c . 53 c

2 C. W., 581/4c. No. 3, $571 / 2 \mathrm{c}$.; extra Barley.-Malting barley, 84c. to 87 c. , nominal.
Peas.-According to freights outside;
No. 2, $\$ 2$ to $\$ 2.10$, nominal Buckwheat.-Nominal, 80 c , to 82 c . Buckwheat.-Nominal, 80c. to 82c.
Corn.-American (track, Toronto), No. 2 yellow, 94 c
Rye.-No, 2, new, \$1.13 to \$1.15; Flour.-Manitoba first. ute bags, 88.60 ; first patents, in $\begin{array}{ll}\text { jute bags, } \$ 8.60 ; & \text { second patents, in } \\ \text { jute bags, } \$ 8.10 ; & \text { strong bakers', in }\end{array}$ jute bags, $\$ 7.90$. Ontario, new, winter,
according to sample, in bags, 86.25 , track, Toronto; new, according to sample, $\$ 6.15$, bulk, seaboard.

## Hay and Millfeed.

Hay-New, No. 1, per ton, $\$ 10$ to Straw.-Car lots, per ton, $\$ 7$ to $\$ 8$, Bran.-Per ton, \$26. Middlings.-Per ton $\$ 29$.
Middlings.-Per ton, $\$ 30$.
Good Feed Flour.-Per bag, $\$ 2.25$.
Country Produce.
Butter.-Butter advanced one cent
all around on the wholesales

THE ROYAL BANK OF CANADA

Capltel Authorized $:-\$ 25,000,000$ Capital Pald $U_{\mathrm{p}}$ Reserve Funds - - . 13,236,000<br>HEAD OFFIGE: MONTREAL<br>Branches throughout every Provinc<br>\section*{Accounts of Farmers Invited<br><br>Sale Notes Collected}<br>Savings Department at all<br>Branches

## during the past week. Creamery, fresh

 made lb . squares, 37 c . to 38 c . per lb . creamery, solids, 35 c . to 36 c . per lb .;separator dairy, 33c. to 34 c . per lb .; dairy, 30 c . to 31c. per lb .
Egs.-New-laid
Eggs.-New-laid eggs in cartons remained stationary on the wholesales
during the past week; the case lots of during the past week; the case, lots of
fresh ones advancing one cent per dozen, and selects, in case lots, from dozen, to wo cents per dozen. Eggs, new laid in cartons, 40 c . per dozen. The case lots are now selling at 36 c . per dozen, and 39 c . for selects.
Cheese.-Old, 24c. to 25 c . per lb .;
new, 23 c . per lb . new, 23.c. per 1
Poultry.-Spring chickens and ducks
sold at about sold at about steady prices. Live weight-spring chickens, 16c. per lb.; spring ducks, 12 c, per $\mathrm{lb} . ;$ turkeys,
young, 20 c . Fowl, 4 lbs . and over $14 \mathrm{c} . \mathrm{per} \mathrm{lb}$; fowl, under 4 lbs . 13 c . per lp.; squabs, per dozen, $\$ 3.50$ to $\$ 4$
(dressed).

## Hides and Skins.

Lamb skins and pelts, \$1 to \$1.50; sheep skins, city, $\$ 2.50$ to $\$ 3.50$; sheep flat, 20 c .; country hides, cured 18 . country hides, part cured, 17 c .; country hides, green, 16c.; calf skins; per lb 25 c .; ;kip skins, per 1 b ., 22 c .; horse hair, per ib., 38 c ; horse hides, No. 1, $\$ 5$ to
$\$ 6$; horse hides, No. 24.50 to $\$ 5.50$. tallow, No. 1, $6 \mathrm{y} / 2 \mathrm{c}$. to 7 7 c.; wool, washed, 42c. to 46 c. ; wool, rejections, 35 c . to
38 c ; ; wool, unwashed, 32 c . to 35 c .

## Wholesale Fruits and Vegetables.

Receipts were exceptionally heavy on the wholesale fruit market during the of peaches.
Peaches continued to come in
large quantities and gradually weakened in price selling as follows: 6 -qt. flats,
15 c. to 25 c ; 6 -qt. lenos, 20 c t to 35 c .
11 -qt. flats, 20 cq . to 42 c. ., a few bringing 50 c . ; 11 -qt. lenos, 25 c . to 75 c ., with a
few extra choice ones bringing 80 c . and 85 c .
firmed slightly in preased and they basket selling at 35 c . to $\$ 1$, and the
6 qts. at 25 c . to 35 c . Pears continued to be rather a slow sale at 15 c . to 25 c . per 6 -qt. baskew,
and 20 c . to 45 c . per 11 qts., with a few extra choice ones bringing 50 c . to 75 c .
Melons were shipped in smaller quantities and brought slightly hiller. prices; the 11 qts. selling at 50 c . to Grapes came in freely and sold at $171 / 2 \mathrm{c}$. to 25 c . per 6 -qt. basket, and 40 c .
to 50 c . per $11-q \mathrm{l}$. leno basket. Tomatoes were rather scarce towards the end of the week and brought higher
prices; the 11-qt. flats selling at 35 c . o 50 c ., and the $11-\mathrm{qt}$. lenos at 50 c . to 60 c .; the 6 -qt. flats selling at $221 / 2 \mathrm{c}$ to 25 c ., and $6-\mathrm{qt}$. Lenos at 30 c . to 35 c . quantities sold at 25 c . to 30 c . p quantit.
The first car of turnips this season sold at the high price of $\$ 1.25$ per bag. just twice as much as they usually do at this season of the year.
Parsnips began to come in in small lots, selling at 40 c . to 50 c . per 11 -qt.

## baske

Carrots and beets remained stationary
in price, selling at $\$ 1.35$ per bag.
Cabbage also sold at about the same
price as a week ago-namely, $\$ 1$ pe
dozen, and $\$ 3.50$ per case.
Cel and $\$ 3.50$ per case. poor auslity and difficult to to very lower prices-bringing 20 c . to 40 c .
per dozen bunches. variety being of much better quality and selling at 50 c . per dozen for Nuality 2 , and 90 c , per dozen for No. 1 grade while British Columbia sold at $\$ 2.50$
to $\$ 2.75$ per case containing from 46 to 54 bunches.
Onions remained high priced; the Indianas selling at high $\$ 3.50$ priced; to $\$ 3.75$ per $100-\mathrm{lb}$. sack; Leamingtons, $\$ 2.75$ per 7 Fickling sack; Spanish, $\$ 4.50$ per case. $\$ 1.50$ to $\$ 2$ per 11-qt. basket.
Potatoes at last declined; the New Brunswick Delawares selling at $\$ 1.85$ to $\$ 2$ per $90-1 \mathrm{lb}$. sack, and British Green peppers, after being quite scarce, came in more freely and materially declined in price, selling at
50 c . to 75 c ., and a few at 90 c . per 11-qt. basket. Red firm at $\$ 1$ to $\$ 1.50$ per 11-qt. basket.
Corn varied greatly in quality and per dozen.
Gherkins firmed in price; the 6 qt. baskets selling at 50 c . to $\$ 1.25$,
and the 11 qts. at 75 c . to $\$ 1.25$ and and the 11,
$\$ 1.50$ to $\$ 2$,

## Montreal.

The market for cattle was steady last week. The cooler weather brought and butchersed demand from packers absorbed. No and offerings were readily been offering of late, but good steers have been arriving in sufficient numbers to supply wants. These sold at $71 / 2 \mathrm{C}$ quoted at $61 / 2 \mathrm{c}$. to $71 / 4 \mathrm{c}$., and common ranged all the way down to $51 / 2 \mathrm{c}$, Butchers' cows were 5 c , to 6 c . for
ordinary and up to $61 / 2 \mathrm{c}$. for ber butchers' bulls were 5 c . to 6 c . for common and up to 63/c. for best. Canning cattle were in good demand, and bulls
sold at $41 / 2$ c. to 5 c. for the choicest sold at $41 / 2$ c. to 5 c . for the choicest, per lb . The United States is an active buyer of lambs in this market, and quite of the country as a consequenced out local demand was also brisk, so that an active trade was done. Ontario
lambs were 10 c . to $10 t / \mathrm{c}$. and Quebec $91 / 4 \mathrm{c}$. to $9 \frac{1}{2} \mathrm{cc}$. per lb .
Demand for sheep was fair and prices steady at $6 \sqrt[3]{2} \mathrm{c}$. to 7 c . Calves were
not so plentiful, and choice stock sold at 9c. to 10c., lower grades ranging demand for all the hogs offered, and with fine at $12 \frac{1}{4} \mathrm{c}$. to $121 / 2 \mathrm{c}$., and mediums to heavies at $101 / 2 \mathrm{c}$. to $11 \frac{1}{2} \mathrm{c}$. per ib., weighed off cars. market. Heavy draft horses weighing
$\mathbf{1 , 5 0 0}$ to 1,700 lbs., were still at $\$ 200$ to $\$ 250$ each; light quoted
weighing

draft, | weighing 1,400 to 1,500 lbs., $\$ 150$ to |
| :--- |
| $\$ 200$ each; small horses, $\$ 100$ to $\$ 125$ | each, and culls, $\$ 50$ to $\$ 75$ each. Fine

saddle and carriage borses were $\$ 200$ to $\$ 250$ each. dressed hogs was active, demand being good, and the tone of the market firm. Abattoir, fresh-killed stock was higher than the previous week, being $163 / 4 \mathrm{c}$. Potatoes.- - Deliveries were still very
light. New Brunswick Jrish Cobblers sold here in car lots at $\$ 1.55$. A range
to cover all qualities was $\$ 1.50$ to $\$ 1.60$ at $\$ 1.80$ to $\$ 1.90$ per 80 lbs . in a smaller Way. Very few Quebec potatoes were

Honey and Maple Syrup.-There
Was a fair demand for honey and prices
were steady at 15 c . for white clover comb; $121 / 2 \mathrm{c}$. to 13 c . for white ex-
tracted and brown clover comb, while brown extracted was $101 / 2$ c. to while Buckwheat honey was 9c. to 10c. per 85 c . to 90 c . per $8-\mathrm{lb}$. tin; $\$ 1$ to $\$ 1.10$ tin, according to quality. Pure maple sugar was 9 c . to 12 c . per lb.
Eggs.-
Uupplies were light and prices very firm. There has ben a lot of
export this year. Strictly new-laid eggs
were quoted at 45 c ., while No. 1 selected were quoted at 45 c. , while No. 1 selected No. 2 candled, 30 c , per dozen. Butter.-The market was exceedingly were still steady it 36 c to $361 / \mathrm{c}$. per lb. for finest creamery, and $1 / 3 \mathrm{c}$. pess
for fine. Undergrades were 34 c . to for fine. Undergrades were 34 c . to
$341 / 2 \mathrm{c}$. Dairy butter brings $271 / 2 \mathrm{c}$. to 28c., according to quality
for this time of were at a record for this time $201 / 2$ c. to 203 yest western 1/4. less. Finest eastern colored was $193 / 4$ c. to $201 / 4$ c., with white $191 / 2$ c.
to 193/4.
Grain.-No great change took place Western being for oats, No. 1 Canadian No. 3, $591 / 2 \mathrm{c}$.; . No. 1 feed, extra, $59 \mathrm{H} / \mathrm{cc}$. No. 1 feed, 59 c ., and No. 2 feed, $581 / 2 \mathrm{c}$., ex-store.
Flour.-Prices were unchanged. Manitoba first patents were $\$ 8.70$ per barrel; $\$ 8$ in bags. Ond strong bakers', patents are $\$ 7.20$ to $\$ 7.50$ per barrel, in wood, and $\$ 3.40$ to $\$ 3.55$ per bag. Millfeed.-The market was steady at $\$ 26$ per ton for bran, in bags; shorts, $\$ 28$; middlings, $\$ 30$; pure grain mouille, $\$ 34$ to $\$ 35$; mixed, $\$ 32$ to $\$ 33$. changed at $\$ 13$ per ton for No . 2 hay: $\$ 11.50$ for No. 3, and $\$ 10.50$ for clover Hides Hides. - Lamb skins were up
to
\$1.35.
Calf skins for No. 2, and 32c. for No. 1. Beef No's. 3, 2 and 1 . Horse hides were $\$ 1.50$ each for No. 3 ; $\$ 2.50$ for No. b . for rendered, and $21 / 2 \mathrm{c}$. for rough.

## Buffalo.

Cattle.-Liberal receipts of cattle ing on Monday with 5,000 head Chicago showed 22,000 , Kansas City many of and handy weight steers as medium of which these grades sold fully fifteen preceding week preceding week. Shipping steers sold
at steady to a shade lower prices, best at steady to a shade lower prices, best
native shipping, steers reaching $\$ 9.85$ not a prime kind at that, while the of the crop, ran from $\$ 8.25$ the bulk generally, and with the $\$ .25$ to $\$ 8.85$ couple of loads of the better kinds, class Canadians ran mainly to a fair making up nearly half of the Monday receipts. On butchering cattle, the trade looked steady to a dime lower and canners and cutters, bulls and
milchers and springers sold at about from $\$ 7.50$ to $\$ 8$; handy, fairish kind of butchering heifers from $\$ 6.50$ to there were fifteen loads, ranged from $\$ 3.75$ to $\$ 3.85$ generally, somed strong reaching $\$ 4.15$ with a fow cutters in, $\$ 4.20$. Best bulls
sold sold up to $\$ 7.25$; yearling bulls up as
high as $\$ 7.50$ to $\$ 9$. Springers $\$ 110$. Stockers and feeders were mostly best feeders selling and ruled slow,
meven cents More of the choice grades were wanted.
Present demand calls for the grades, these kinds finding ready sale, kinds, which are in abundance, are totaled 5,425 head, as against week 5,200 head for the preceding week, and
3,300 for the correspond Sar. Quotations:
Shipping Steers.-Choice to prime natives, $\$ 9.50$ to $\$ 10.25$; fair to g good,
$\$ 8.75$ to $\$ 9.25 ;$ plain, $\$ 8.25$ to $\$ 8.60$; best Canadian, $\$ 8.50$ to $\$ 9.35$; fair plain, $\$ 7.50$ to $\$ 8 .{ }^{\text {gron }}$, common and $\$ 8.50$ to $\$ 9$; fair to good, $\$ 8$ to $\$ 8.50$; oest handy, $\$ 8.50$ to $\$ 9$; fair to $\$ 8.50$;
$\$ 7.25$ to $\$ 8.25$; lion $\$ 6.50$ to $\$ 7 ;$ yearlings, and common,
to $\$ 10$; fair to Cows and Mood, $\$ 8$ to $\$ 8.75$. butcher heifers, $\$ 7.50$ to $\$ 7.75$; common to good, $\$ 6.50$ to $\$ 7.25$; best heavy fat
cows, $\$ 6.75$ to $\$ 7$; good butchering cows, $\$ 6$ to $\$ 6.50$; medium to fair,
$\$ 5$ to $\$ 5.50$; cutters, $\$ 4$ to $\$ 4.25$; can-
ners, $\$ 3.50$ to $\$ 3.75$.

| Bulls.-Best heavy, $\$ 6.75$ to |
| :---: | good butchering, $\$ 6.25$ to $\$ 6.50$

$\$ 7$ tockers and Feeders. - Best
$\$ 7.25$. $\$ 7$ to $\$ 7.25 ;$ common.-Best feeder
to $\$ 6.75$; best stockers, 86.75 , common to good, $\$ 5.50$ Milchers and, Springers.-Goo $\$ 6.20$
best, in smali lots, $\$ 80$ to $\$ 100$; in
loads, $\$ 70$ to $\$ 75$.
Hogs.- Prices were on the dedi
last week. Monday, which was high day, top was \$11.75 ranged from $\$ 11.40$ to $\$ 11.65$ pigs landed generally down to si1 day's market was five to ten low best grades, with pigs selling a best grades, with pigs selling a quar
higher, Wednesday's trade with Tuesday; Thursday, was
dropped five to ten cents selling steady, and Friday with went off ten to fifteen cents, top $\$ 11.40$, with bulk selling at and \$11.25. Pigs, which were hit hardest, ranged down to $\$ 9.50$ week sold up to the fore part of week sold up to $\$ 10$, and on Frid $\$ 9.75$, with sows sold from $\$ 9.50$ the entire week the run reat down. 21,800 head as against 26,05 for the week previous, and head for the same week a year Sheep and Lambs.-Last week starided with top lambs selling generally
$\$ 11.75$, culls ranged from $\$ 9.75$. and skips sold as low as 87 . Afte Monday, however, the demand was light, and this resulted in a slow anm lower trade. Tuesday's top was $\$ 11$. lambs at $\$ 11.25$ and $\$ 11.35$. lambs at $\$ 11.25$ and $\$ 11.35$, and Fric with Monday and shillambssoldstead) in light supply, also ruled steady , entire week. Top wethets are guot up to $\$ 8.25$, and ewes sold from $\$ 7$ \$7.75; weighty ones, kinds that been selling around $\$ 7$ and $\$ 7.2$ bringing up to $\$ 7.50$. Last week ceipts reached 18,800 head, as
pared with 15,559 head for the pr week, and 14,300 head for the sam week a year ago.
week top Weal first three days of las W11 dopn. Theld at $\$ 13$, with cy quarter higher, and Friday were red-hot demand, best veals sold selling as high as $\$ 12$. Two declos Canadian calves were on Friday market, and the top veals out of thes $\$ 11,25$ d $\$ 10.50$, with the culls around $\$ 9$ and $\$ 9.50$, and those $t$ were rough landed down around and $\$ 6.50$. Light grassers brought calves sold as low as weighty, gras Receints last wow as heing against 2,685 head for the before, and 1,850 head for the

## Chicago

Cattle. - Beeves, $\$ 6.50$ to $\$ 11.30$ and feeders, $\$ 4.60$ to $\$ 7.65$; heifers, $\$ 3.50$ to $\$ 9.20$; calves, $\$ 8.50$ Hogs.
mixed
$\$ 10.10$ Light, $\$ 10.10$ to $\$ 11.25$ $\$ 10$ to $\$ 11.50$; rough, $\$ 10$ to $\$ 10.20$. Sheep Lambs
$\$ 10.65$.
Cheese Markets.
bidding, 19c. to $207-16 \mathrm{c}$.; ; ${ }^{\text {Hellevile }}$ 203 c. c .; Kemptville, 203 /c.; Montreal finest westerns, $203 / 4 \mathrm{c}$. to 21 c .; fines specials, $193 / 4 \mathrm{c}$. to 20 c .; average fancy specials.
$191 / 2 \mathrm{C}$.

Breeders wishing to secure high-class Jerseys should attend the auction sale a the farm of Geo. W. A. Reburn, October 4. The farm is situated miles south of the village near $A$ lare number of cows in milk and two-year-old heifers that have been bred to noted sires are for sale. Look up the adissue write Mr. Reburn, R. R. 1, North Hatley,
Quebec.

The House by the Side of the Road.
There are hermit souls that live withdrawn
In the peace of their self content, There are souls, like stars, that dwell In a fellowless firmament
There are pioneer souls that blaze their Where highways never ran, But let me live by the side of the road And be a friend to man.
Let me live in a house by the side of the road
The men who are ore goes men who are bad
As good not sit in the scorner's seat
I would hurl the cynic's ban;
Let me live in a house by the side of the road
And be a friend to man.
I see from my house by the side of the road,
By the side of the highway of life, The men who press on in the ardor of The men who are faint with the strife, nor their tears,
Both parts of an infinite plan.
Let me live in my house by the side o the road
And be a frim
And be a friend to man.
I know there are brook-gladdened meadows ahead
That the road passes wearisome height long afternoon And stretches away to the night;
But still I rejoice when the travellers rejoice
And weep with the strangers and Nor live in my house by the side of the Like a man who dwells alone.

Let me live in a house by the side of the road
They are good, they are bad, they ar weak, they are strong,
Wise, foolish-so am I.
Then why should I sit in the scorner's Or hurl the cynic's ban?
Let me live in my house by the side And be a friend to man.

Sam Walter Foss

Social Service of Flowers. |Fall is the time in which to begin next year's flower garden. Mrs. Leader's article should be an inspiration to begin now.l
Driving along a country road one day in summer through a prosperous part
of Ontario, I was struck with the number of beautiful houses of well-to-do farmers whose front yards were uncared for not a shrub or flower to relieve the bareness, not a vine to shade the porches, not a well kept lawn, and I wondered
why. Was it because there was no time for
flowers? But I thought surely not for early in the Spring or in the Fall there are always days when a few hours could be spared to make a border around the house, and plant vines and shrubs. Was it because flowers need to be watered and often in the summer water is scarce on the farm, or was there no time for watering flowers? But no, it couldn't
be that either, for shrubs and vines be that either, for shrubs and vines
and perennials once planted need no
watering. They grow more beautiful
every year with almost no care whatThen as I drove along I came to a small humble cottage by the side of the road and here were flowers of al! descriptions: lilac, spirea, syringa, tall hollyhocks along the fence, big clumps of peonies, iris, poppies, Sweet William and many other old fashioned flowers, and the porch just covered with roses; and as I gazed at the beauty of it, thought of that poem, "The House by came to be written. The author, thirsty and tired from travelling along a dusty road, came in the turn upon a cottage the yard of which was full of old fashioned flowers. Near by was a cool bubbling stream and above the water, painted on a rude board, he saw these words, "Are you thirsty?-Drink." Near by was a bench, and above it written, Are you tired?-Rest awhile. Just and one of thie boards, "Do you like apples?-Have some," While he was enjoying these surprises, an old man hobbled out. His kindly face encouraged the traveller to ask if he were the owner. He replied that he was and told how that since he and his wife did not themselves need all their bounty, it had occurred to her that they might share it, and he had painted the boards and were not using the bench so he had brought it out too. The simplicity and earnestness of the old man, who in his humble way was giving social service so appealed to the traveller that he wrote the poem; and I wondered if an old couple lived in that cottage among the flowers, and I thought if they had children, who had gone to homes of their own, how much more that home surrounded by flowers would live in the memory o house with no shrubs no roses, perhaps not even a lawn.

Young people are held more by the beauty of their surroundings than parents realize. Why not make the ront yard more attractive? How much sweeter rest is on a vine-covered porch with the fragrance of roses in your the hot rays of the sun.
There are few people who do not like flowers, but a great many people, who think they take up too much time, therefore very busy people must do
without them. Now theat
quire almost no care after they are planted. Annuals, that is flowers grown from seed, dahlias and gladiolia bulbs need quite a lot of watering. The bulbs must be planted in the spring and taken up in the fall, and kept over the winter. They are very beautiful, but for those who have few spare these ', ${ }^{\text {h }}$ Plant shrubs, and perennials that will come up every year, need no watering and almost no cáre whatever except weeding. They will even do well in spite of weeds. The green foliage of the shrubs, even when they are not in bloom looks so much better than the bare walls of a hoûse.
First have a good lawn. Few think they haven't time for that, but let me tell you that shrubs and perennial take far less care than a lawn. Then
frame in your house and along your frame in your house and along your not make flower beds or cut up the lawn in any way, except as a border to your house. Plant the old standard varieties such-as lilac, syringa, spirea, hy̌drangeas, Japan quince, flowering crabs, ferns, peonies, daffodils, tulips, larkspur, iris, oriental poppies, shasta daisies, gailardia, phox, and any of for your community. There are so many to choose from that one may mave flowers from April till October. These are all hardy, require no covering
in the winter, and I have found they do splendidly when planted in the Fall. I do not think any of the ones mentioned are attacked by insects, so you can see that even very busy people, if they can spare enough time to do the planting can have flowers that will increase in size and beauty every year even for those that say they never have any a few dollars means so much to the a few dollars means so much to the
appearance of your home. If you are appearance of your home. If you are
driving along the road, you may pass a beautiful house where no ornamental planting has been done and remark, "What a fine house," but you wili go into ecstacies over a small cottage surrounded with roses, vines and flowers. A beautiful picture needs a suitable frame, and as the frame adds to the picture, so will a well-planted yard has a frame of trees, shrubs, vines and has a flowers will sell much more quickly and bring a better price than the one that looks bare and bereft.
For those who can spare a little time to spray and keep down insects, I would urge you to have a rose garden. If you haven't time for many, have at
least a few roses. Some one has said least a few roses. Some one has said "A garden without roses is like a ring without jewels, but a garden of roses is ring and jewels all in one, Each association is one of pure delight. When my roses are in bloom, I cannot wait in the morning until I have had my breakfast to go out to my roses to see what new beauties await me. They are so beautiful I feel well repaid for any time I spend on them. A writer says "A rose garden is one that is planted with roses, but a garden of roses is fairyland, where from June to November you may gather roses of fair blossoms, where at evening you may sit and dream sweet dreams as caress and to your nostrils wafts a perfume indescribably sweet."


Select an open sunny locality for your
roses. If you are to plant them agains a wall or close board fence, plant them so that they will get the morning sun which is much better than the afternoon sun, as it dries them up and burns them. Either spring or fall is suitable fo

## If you do

suited for free flow the roses best those only grown foring, if you set out disappointment will be great your will have had your expense and labor for nothing. All roses should be planted deep, three inches above the-crown, or they are all grafted on common, briars, so if not planted deep, the briar grows and the graft dies, and you blam Among some of the poor roses. roses are the hardy ever most attracti Tea. These hybrids were produced Hybrid crossing the dainty little tea rose with some of the June roses. The result was the delicate coloring and odor of the tea rose and the hardy ever-bloom ing properties of the common June rose They need a little protection in winter not so much against the cold as the aiternate thawing and freezing. Heap cover with a few inches of the bush and remove or dig it in in the leaves. The all danger of severe frost is over The Hybrid perpetuals
larger and their blooms are larger but they do not flower all "summer as the Hybrid Tea roses do. But some of them bloom two or three times, often in the fall, and are well worth a place in every garden. They are hardy and vigorous
There is a place in every garden for one or more climbing roses, and their should be used so simple that they lightest attention they will give the abundance of bloom in June and July, and some kinds will bloom all summer. tobacco soap in water will keep the tobacco soap in water will keep the
insects in check. A good dousing of insects in check. A good dousing of Begin this fall, spend some time beautifying your "house by the side of the road," and in so doing you will be well repaid, not only in the joy it will give you and yours for years to come, but also in the pleasure it will give the passer-by

## Christmas Stockings for Our Soldier Boys.

Fifteen thousand Christmas stockings! Santa Claus himself! But the stagger even of Canada are going to out-do him this year. They are planning to play Santa Claus to their soldier boys at the front and as reindeer, pack and sleigh must be ready by the fifteenth of October, it
is high time everyone was at work, determined that everyon Canada have determined that everyone of our gallant
soldiers, whether lying on a in a hospital or in the chill of his bloodbought trench, shall be reminded of home on Christmas morning, by finding at his side a really old-fashioned sock filled with "goodies". Of course e woman and girl who reads the Farmer's Advocate will want to have a hand in making and filling one; so here are "The stockings should be made of They should be cut the shape of a stocking. sixteen inches long from top of leg to back of heel, foot ten inches long.," 10.
pocket-mirror, pocket pencil contain chewing-gum, chiclets, hencil or pen olate,
$\qquad$ "Do not send
in these stockings.
"The stockings.
large. Note carefully the size. "The stockings should be sent to the fifteenth of October.
There are those
or fill stockings who who cannot make or fill stockings who would perhaps articles mentioned in the list will be just as acceptable.
making an heroic effort to send a grand
shipment of these stockings before the fifteenth of October and would be glad of help. Donations of money should
be sent to Mrs, Cooper, Red Cross Treasurer, Hyman Hall, London, Cross Donations in kind to Mrs. George M. Gunn, Hyman Hall, London, Ont. And should you like to fill a sock without the trouble of making it, go
to Hyman Hall, London and ask for to Hyman Hall, London and ask for one. The ladies are making them there
as fast as their fingers can fly, gorgeous as fast as their fingers can fly, gorgeous
affairs they are too, made of strong affairs they are too, made of strong
scarlet net, so that the dear soldier lad will be able to see all' sorts of delightful bulgy packages, even before he has time to open it

The Great War Chiefs of England and France who planned the Drive of the Allies on the Western Front

"We had a bang-up dinner in the Shall prove in Heaven a martyr's palm trenches on Christmas, "wrote a gay
Canadian boy, last year, "And if I'd had anything, but a bayonet to hang my sock on, I'd have done it, and felt as if I were home,"
Bless his gallant heart, making merry
in the midst of all the hardships of war! Well, this year his stocking is going to be hung up, by a pair of gentle hands in the home landhung up and filled and delivered to him. And if many kind hands get to work at once not one of our boys will
go unprovided for in go unprovided for in this, we trust,
their last Christmas on the battle field.


Cyclists at Camp Borden.
front and in our hospitals boys at the be amply provided for by their friends, but these gifts are for the soldiers who unless we send it to them. It will make our family. Christmas dinner taste much more delicious, if when we gather around the table we recall that "Somewhere in France there is a brave heart beating
more happily under its khaki covering more happily under its khaki covering
because of our kindness. Fifteen thousand Christmas stockings How many are you going to fill?

## Hope's Quiet Hour

## A Prayer for Beauty.

 God be beauty of the LORD our the work of our hands.-Ps. 90:17.Oft in life's stillest shade reclining, In desolation unrepining, Meek souls there are, who little dream Their daily strife an Angel's theme


MARLAN Ketri.
than the God who made him. Don you think it is better to turn this love of
beauty-which is deeply implanted in man and woman to good account? We only skin deep", heard that "beauty don't believe in the least. A Ach we falls in love with a beautiful woman matches her face. He loves her soul What he thinks she is, having no for for thing. Bhit some beauty is only "skin while other beauty is hidden out of
desires the beauty
He loves-and He loves all souls th
The psalmist greatly desired
hidden beauty of the soul when he pra
be upon us." be upon us." The writer of this psaim "a prayer of Moses the heading
It is a prayer of Moses the Man of ceeding fair"-that he caphyheart of Pharaoh's daue captured saved from death. But, and so baby,-see marginal rendering as 7:20, -he was "fair to God," of Act years he so earnestly desired to in late We are right to pray for the which God loves, but to glory in bu beauty is a sure road to disaster. The prophet Ezekiel was given a mie of warning to the city of Tyre, which am of perfect beauty," its pride: am of perfect beauty," It had bonsted linen sails of blue and purple, of its wonderful trade with all nations in spices, gems, wheat, etc. This beauty "skin deep") for God's own witnoes to Tyre was: "Thou sealest up the sum, full of wisdom, and perfect in beauty. Thou hast been in Eden the garden of ways., . till iniquity was found in

There was the cancer which must quickly change beauty into loathsomeof thy beauty. heart was lifted up because to the ground
thou hast defile thy sanctuaries by the multitude of thine iniquities. . therefore will bring forth a fire from the midst thee, it shall devour thee, and I In bring thee to ashes upon the earth in the sight of all them that behold thee.'
Ezek. 27: 28.
sentence of judgment to apply this terrible What good judgment to our enemies! isten to stern words any of us when we t once think words of warning, and Black," or "Mrs. White?" its" Mr. Black, or "Mrs. White?" Do w humbly ask God to let His beauty of our loved Empire? Or do we look down on others in our pretty individual conceit or say boastfully that our navy "rule the waves"-forgetting that only righe eousness can exalt a man or a nationi Our foolish pride may blind our cyes as the pride of the Pharisee blinded him to his spiritual sins. He despised the Publican-what is God thinking of us when we find fault with other people? Are we measuring ourselves beside them, saying conceitedly:" "I am much better the Pharssee did, and there is no beaut in that attitude.
There is an old legend of a man who walked quietly on his way, giving out his influence for good as unconsciously as a flower scatters fragrance or a star sends out light. An angel was sent you like to have power to heal the sict?" you like to have power to heal the sick?"
he "asked.
was the saint's answer, "for how can I tell if it is good for them to
recover? God will heal them, if He sees best."
Then he was asked whether he would
like to have marvellous power for the conversion of sinners, but he replied:
"The Holy Spirit alone converts souls. "The Holy Spirit alone converts souls. God forbid that any should
Then he was asked if he would like o shine forth as a model of holiness; buit he shrank back, afraid lest he might be lifted up with spiritual pride. So a gift was given him in secret, and As he walked on, facing the light, his o himself; but it became a benediction others. Unknown to himself he cheered sad hearts, helped the discouraged and scattered hope and inspiration. wherever his shadow fell. the unconscious is only a parable of We have all known power of character. like this "Saint of the Holy Shadow." Such a wonderful gift of influence is within the reach of the poorest and most ignorant. But we can never obtain it by seeking to glorify ourselves. If our good deeds are done to be seen of men-to win admiration and praise-they are anything but lovely, and cannot beautify We can't serve God and any other master. He will not accept a divided
heart) must be fiung wide open for the entrace put unreservedly into. His hands. Why should we fear to give Him fult Why sho, when He loves us with infinite controi, when Let us lift up the gates, that the King of Glory may, enter in,
that let us serve Him loyally all our life through.
St. Faul, says that our "bodies" are temples of the Holy Ghost. When
God's Sirit is dwelling continually Gods Spirit is dwelling continually
Godin a temple of flesh the Divine Light sometimes shines out visibly; for the body is a tent in which the soul dwells. It was said of Keble in his old age that clock: the colour and an liuminat long faded away from the gilding had fonures, but the ravages of hands were more than compensated for time were me which shone from within.'
We have seen faces on which was written, by God's own hand, the peace which passeth all grows from within out beauty of it is a tremendous witness wor Christ. Sermons may fall unheeded on the ear, but a beautiful cháracter rouses in the most hardened men and women a desire to be lovely too.
Someone has said: "It is not our fault if we are born homely, but it
our fault if we do not have a face of good cheer and hope when old."
May God give us beauty of self and sailors are showing to-day. I- have and sailors are "The Hogue" went down a sailor, who was in a boat, jumped overboard to make room for others and would not allow himseif to be resaved until all the men near bv were picked up. He probably thought nothing of it. It is not when a man admire A thing may he very common and yet very beautiful. On one occasion botanist was describing wild flowers. He declared that-from the botanical standpoint-the perfect flower was not rose, or lily but the dandelion. may be but I do know that God has lanted lovely human flowers in countless nooks and corners. Do we desnise them, passing them by carelessly like dandelions, because they are common? How can we win spiritual beauty? We become like the people we choose lived the one flawless Life of perfect beauty. He is "the chiefest among ten thousand" and "altogether lovely." He offers us His wonderful friendship, and wants to live with us in closest fellowship now and always. He has chosen you-have you chosen Him as your Friend?
"He is Man andBrother,
He is Lord and God,
And the way of sorrows
Is the path He trod.".
Dora Farncomb.

## Fashions Dept.

How to Order Patterns.
Order by number, giving age or rec, and allowing Also state in which issue pattern appeared. Price fifteen cents PER PATthe one suit, one for coat, the other or skirt, thirty cents must be sent. Address, Fashion Department, "The Farmer's Advocate and Home Magayour name when ordering patterns. Mary name when orde to do this.
When ordering, please use this form:Send the following pattern to: Name.
Post Office
Country.
Number of Pattern
Age (if child or misses' pattern).
Measurement-Waist. ...Bust.
Date of issue in which pattern ap-
peared.


8483-Gown. 34 to 44 bust.


8912-Blouse. For missesTand smaly 8915-Skirt. For misses and small


The Ingle Nook.
iRules for correepondence in this and other



Dear Friends of the Ingle Nook.-Not n "essay" to-day, nothing but a letter, a jotting down of the rambling thoughts ust as they come.
First of all, the morning papers lie before me on the desk. They are filled with flaming headlines telling of great gains for the Allies everywhere, victories Transylvania. It is all so good to read -good because every victory won means another step towards the ending of the war, a cessation of the suffering and horror.
I remember the odd sensations with which, three or four years ago, 1 read some old, yellowed papers printed about the beginning of the 19th century. The Napoleonic wars were then in with accounts of the happeninge of the day and surmises as to what was to happen next. One could not but smile at some of the wide guesses, the more so that now, after the passing of a century, the wars of that time appear in their true perspective; and then one could not but reflect that many of the prophecies made at the present day, may be just as far from the in regard to the future, yet no man can say with certainty that any one thing or another shall happen, nor what shall be the next arrangement or combination of the nations. A turn of the kaleido-scope--and what new design may present
itself?
When those old, yellowed papers were turned off the press, crisp and fresh,
Austria was England's ally, and France Austria was England's ally, and France, then her deadly enemy, was planning French, Dutch and Spanish fleets, a plan that miscarried but was boiled down later into a bold scheme that the French themselves should carry out the project. Then, too, the Turks and British were fighting on the same side, and Acre and Aboukir were names that figured in the papers instead of the unpronounceable Balkan places that are to-day to the fore. As to-day,
too, there was "trouble in Ireland, but at that time it was fomented by French instead of German influence. -How strangely, indeed, things become twisted about Everywhere the old sheets oristled with the names of men at the front, Massena, with our own Howe and Nelson, Moore and Wellesley, after wards the Great Duke of Wellington; but of course the great personairy for long the giant of Europe, the very breath of the war. Selfish and crue yet there was always something heroic about him. He was at every turn the most striking figure on the bi chessboard, and he did not shrink from posts of danger nor from suffering with his men.
It seemed so strange to read the account, day by day, of those old events, the last hideous relic of barbaric times, and of reflecting that never again could the enlightened world know so vast and so cruel a war. -How little did I dream that even then we were entering upon an era before which the fiercest days of the Napoleonic wars would be as nothing! Truly how strange are the changes of the years. When this war is over, is there one personality that will stand forth as the war-genius?-Brusiloff, perhaps. Or Foch? or Petain? or jofrer or Herman soldier, Von Hindenburg?
Great soldiers these and needed for their place. Yet, is it a sign of the times, too, that men point with equal pride, to such national heroes as LloydGeorge and Asquith? Who can say what the morrow will bring forth-what change of ideals, what readjustment of "values"?

We were watching a "Highlander" in khaki dancing the Highland Fling

## Here Are The Points-

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Are based on facts-not fancies. Every claim made is guaranteed, Fuel Economy.-Will bake all day with one fire-pot of coal; 2,020 biscuits were actually baked in one day with one Even Tem
Id, heavy construction in Oven.-That is accomplished b Treasure is construction. A light stove cools quickly. Othe heavy, 725 ibs., as illustrated.
interchangeable. fire-box, with straight sides-interlocking and rchangeable
Ventilated_Oven.-Fresh heated air supplied. No burn up smoky air to destroy' flavor of food.

Oven has patent cold-rolled steel bottom. Saves fuel and ensures even heat.

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Special lining for wood. Will tate 28-inch stick

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Top in three sections, convenient for broiling, toasting and firing

Nickel Edges all lift off for cleaning Towel Bars and all conveniences. Extra large ash pan. Beautifully decorated with tile-either dark green or rich
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on a platform near the entrance of supplied the music, and a crowd gathered about. This was what and gathered for a returned soldier was to follow with recruiting speech.
I "Talk about the Scotch being cold!" I exclaimed, as the youth shouted in the merry, exhilaration of the dance. races are cold," any of the Celtic Welsh, Irish-how the core. "Scotch, -And I wondered if she were think!', of the chequered history of these plucky little peoples of the Western Seas. it ses, - the skirl o' the pipes!--How it sets the least streak of blood of the Scot bounding! And how even those who have no streak of the Scot seem to "prick up, and look interested as the view. But a fortnight sporan swing into saw a whole grand stand at the C. C. N. E. at Toronto sway with applause as the weird, wild strains of the pipers ushered in a band of perfectly trained Highland - The skir

The skirl o' the pipes-somehow
always makes one think of the Fie always makes one think of the Fiery
Cross of the old clans, and the beacon lights on the hill-tops.-Days of old But th gone from us, nor its need. recruiting soldier at the Western young was but one of its bearers, and and
dancing Highlander his herald

[^0]of fruit served raw at the delights only berries, but also red currants cherries, plums and pears? Some people
stew stew everything except berries and peaches, but really nothing can be Take the skins of the others mentioned. and cut them up then plums and pears sugar and rich, sweet serve either with salad, with salad-dressing, on lettuce precisely as for vegetable salad. Of ceurse the pears and plums must be perfectly ripe or they will not be so delicious. We have a whole long winter for eating stewed and preserved fruits, "and we may as well have the variety of Besides, raw fruit and cream form dinner the easiest desserts to serve at fall, when there busy, busy days of hours -pickling, and house-cleaning and fall sewing, and gathering in the garden stuff. Served with brown bread or biscuits nothing can be better
or more wholesome or more wholesome. Try it. -Junia.

## Bran Cookery.

Some weeks ago someone asked jor a recipe for bran muffins. I have been have at last been successful. There
is nothing and is nothing better than bran cookery for as a trained nurse told me last night is a fruitful cause of appendicitis and $\underset{\text { Bran }}{\text { many }}$ Other ills.
$\operatorname{cup}_{\text {baking ine }}$ entereat flour, 3 teaspoons tablespoons butter, $1 / 2$ teaspoon salt, 3 $11 / 2$ cups thick sour milk, cup molasses, soda. Sift together the flour, bakingStir the soda into the sour the bran. molasses, then stir into the dry ingredients Add the butter, melted. Bake in hot well-buttered muffin pans about 2.5 Bran Gems.-Mix 1 pint white flou salt. Stir in 12 tablespoons teaspoon and 1 pint of milk, and moons molasses teaspoon soda dissolved in the last, 1 ing water. Bake in gem attle boilquantity are needed use half the jam, honey or hot with butter and Bran Bread.- One cup milk, ${ }_{2}^{\text {cup }}$ water, 1 cake compressed yeast 3 tablespoons butter, $1 / 2$ teaspoon salt, wheat flour, bran as $\begin{gathered}1 \text { cup } \\ \text { needed }\end{gathered}$ soft dough.' Scald the milk, add for a add the measses. When lukewarm, water, then flour and mixed with the to make a soft dough. Do not needed Let stand, covered, until light, then cut down and turn into a bread pan.
When nearly doubled in bulk bake I hour.

Things To Make In Fall. cauliflower, 1 pint small onions, heads cauninower,
peppers,
1 pint small onions, 3 red salt, 2 quarts vinegar, 4 tablespoons
mustard, mustard, turmeric. $\quad$ Remove ${ }^{\text {and }}$ seeds
from the peppers and cut all the vegetables into small pieces. Dissolve he salt in enough water to covef the In the morning drain well, over - night. the vinegar and drain well, then heat flour and mustard. Add enough turmeric to color. Boil for 15 minough and pour over the vegetables. Mix well and seal in jars
Cauliflower Mustard Pickle.-Let a fair-sized cauliflower stand, head downward, in salted water for an hour,
then break the flowerets apart. Cover with boiling water and let cook about 6 minutes. Drain well, then pack into jars. For one fruit-jar put over the fire a scant quart of vinegar. Mix together $1 / 4$ cup mustard, $1 / 3$ cup sugar, 1 turmeric 1 yellow ginger, tablespoons flour: pour a little of the hot vinegar over the seasonings and mix to a smooth consistency, then stir into the rest of the hot vinegary stir until boiling and let simmer 10 olive oil, and stir in 1 tablespoon of flower in the jar. A tablespoonful of white mustard and $1 / 2$ tablespoonful of celery seed may be added to the jar as the cauliflower is put in. Qther vegetables, as Brussels sprouts, small onions, slices of green tomato or thit slices of cucumber may be prepare by the same recipe, or ${ }^{\text {a }}$.
several kinds may be used.
several kinds may be used.
Sweet Pickled Beets with Onion.Use small tender beets, and allow 2 onions to 10 or 12 beets. Wash the beets and boil until tender. Do not cook the onions at all. Slice the onions in

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Dissolve to covet. the nd over -ifititit
well, then heat ery slowly to the enough turmeric ates and pour
well and
Pickle.-Let stand, head for an hour, S apart. Cover
let cook abourt pen pack into
put over the put over. Mix
vinegar. Mix
$1 / 3$ cup sugar, 1. 1 cup sugar, 1
teaspoon flour; poin : consistency, hot vinegar;
simmer 10 simmer of ablespoon the caulier the cauir
tablespoonful tablespoonful added to the in. Qther be prepared
h Onion-and allow $\mathbf{2}$ Do not cook
the onions in

## THE FARMER'S ADVOCATE

1623

## SkPtember 28, 1916

a dish that can be covered closely. Slice the cooked beets over them. Prepare a syrup as follows: 1 cup cup $^{\text {water }}$ 1/4 cup vinegar, the beets and onions, this and pour been sprinkled with salt which pepper. Add bits of red pepper pod or cayenne.
Ginger Pears.-Wash the pears and pare them, remove cores and cut into quarters lengthwise. Prepare a syrup as rich as liked and cook of lemon and it , adding a few slices of lemon and
root ginger. Squashined squash add the following mixture: Half cup sugar,' 1 teaspoon salt, $3 / 4$ teaspoon cinnamon; then add $\begin{array}{ll}2 \text { eggs slightly beaten and } & 21 / 4 \text { cups } \\ \text { Turn into a } & \text { buttered }\end{array}$ sweet milk. Turn into a buttered pudding dish and
oven until firm.
oven until firm.
Spiced Grapes.-Weigh 7 lbs . grapes and slip the pulps from the skins. Put the pulp over the fire in a granite pan and simmer until sort, the enough to keep back the a sieve fine eno ikins, also 4 lbs. sugar,
seeds. Add the skit 1 pint vinegar, 1 small grated nutmeg, $11 / 2$ tablespoons ground cinnamon, and a scant tablespoon ground cloves. Let the whole simmer very gently for 2 hours, then seal as usual
Pickled Mushrooms.-Peel the mushrooms and put into sterilized fruitjars. For each 2 jars take a third Set the jars on a folded towel in a kettle and pour in cold water to come half way up. Put the lids loosely on the jars and cover the kettle. Let cook $3 / 4$ hour after boiling begins, then fill up the two jars from the third. Have ready a quart or more of vinegar, scalded, with 2 tablespoons assorted spices, tiny red pepper pods, celery seed, etc.,
as liked. Pour the vinegar in the jars as ined. Pour the vinegar rubbers and covers and let cool in the kettle. To Can Mushrooms.- Wash the mushrooms and discard the stems. Put the caps into sterilized fruit jars, shaking them down assolidly as possible.
Puton the covers and place jars ona folded towel in a kettle. Pour in water to half cover the jars; cover the kettle and let boil $1 / 2 / 2$ hours after boiling of boiling water and use this as needed to fill the jars to overflowing. Adjust rubbers and covers and let boil 15 minutes. Curled Celery.-Celery prepared this way looks very attractive. Cut and clean thick stalks of celery and cut in 3 -inch pieces crosswise. With a sharp knife, beginning at the outside of the stalks, make five cuts parallel with each other extending one-third the length of the pieces. Make 6 cuts at right angles
to these cuts. Repeat on other end. Let stand several hours in cold water. Beet and Cabbage Salad.-Select a firm, crisp head of cabbage, not too large.
Remove heart of the cabbage, leaving a thin shell. Chop the heart of the cabbage, discarding coarse stalk or ribs. Season with salt and pepper, add equal measures cream, salted before whipping, and mix together. Add 1 cup chopped with sprigs of parsley and bits of creamcheese, and sprinkle with chopped nuts. Pear Pickle.-To 6 cups sugar allow 1 quart vinegar, also some stick cinnamon and cloves. Peel the pears and cut into strips. Bo:l the sugar and vinegar together for a few minutes then put in the fruit and cook until tender, then remove adding a few sticks of cinnamon and over and let stand pour the syrup off the syrup, scald again and pour over. Repeat this two or three mornings fruit will be firm. It should be well covered with syrup. If the latter boils down too much to permit of this
more syrup must be prepared.

The Scrap Bag. Drink Use Buttermilk. is one of the most healthful drinks, also because of the antiseptic action the lactic acid which it contains on the lower intestine.
whole upside down and lay on the bottom After pan a cloth wrung out of water. After about 15 minutes the cake will

## Hemming Table Linen.

To ensure straight hems on tablelinen always draw a thread and then cut on the line, then crease up the hem, measuring with a tape or piece of carddraw dampen it with soap and water.

## Why you are Awkward.

If you have a homely gait, are stiff in the joints, and have an awkward carriage, the trouble is that you have not learned to stand up. Ordinarily, people stand with the larger part of the weight of the body on This tend
This tends to throw the body out of poise, contracts the chest, cramps the and also the abdomen.
To be well poised
carriage, to walk freely, you must stand up.-Sel.

## Rules for the Sick Room

1. Don't lose your head.
2. Don't whisper
3. Don't make sudden noise.
4. Don't let windows rattle or doors click or chairs squeak.
5 . Don't discuss the patient's condition with her even if normal. 6. Don't discuss the patient dition with anyone else in her hearing. 7. Don't discuss sickness of any other person or persons.
5. Don't tell the patient what medicine you are giving her.
6. Don't lean on the foot of the bed, sit on the side of it, or knock against it. 10. Don't keep the sick room dark.
7. Don't let the odors of cooking reach the sick room.
8. Don't forget that sick persons should have an all-over bath every day unless the doctor advises otherwise. 13. Don't keep a conglomeration of medicine bottles in the sight of the patient.
9. Don't let flies or mosquitoes escape alive from the sick room.
10. Do be regular.
11. Do follow the doctor's advice implicitly.
12. Do ventilate. the glare of a lamp. fly or moscuito that enters the sick room and burn it.-Sel.

## The Windrow

Bucharest, the capital of Roumania, is said to be "a city of spies." Representatives of every nation in the world are seen on its streets, hence nothing escapes. Code conversation takes place

The number of eggs laid by a female insect often runs up to 1,000 or more. If it were not for checks, natural and otherwise, they would soon eat up everything in the world. Birds and reptiles eat them, diseases sometimes perature, unusual rainfall or drought also affects them.-Our Dumb Animals.

The name Buckovina, which has figured from time to time in the war news means the same as Buckinghamland of the buck used as a writing Beech bark was used as and the Saxon name of the tree, "buch" is still the German for book.

Mr. Edison has always been very jealous of his time, and expects his single minute that might yield an important invention should slip by. A year or two ago an old friend whose son was just starting out in life
called upon Mr. Edison and presented him. ${ }^{\text {My }}$ boy," said the friend, " about to start on his business career. Now, I would like you to give him a few
words of advice and a motto which he can adopt in his work.'
can adopt in his work. Edison was very busy at the time,


Think of a Coal range with a Handyheight Oven!
What a joy to bake without constantly bending over: to see the things baking through the Clearview Oven Door!

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Yorkshires $\begin{gathered}\text { Sows bred, others ready to breed } \\ \text { and younger; boars } 2 \text { and } 3 \text { month, }\end{gathered}$
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treatment of diseates of your HVE stock
FRE with a trial ton order of
LINSEED OIL CAKE
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[^1]If a cake sticks to the pan turn the

## FOUNDED 1886

## Bread Making Contests At Rural School Fairs

PRIZEES-Free Courses at Maedonald Institute, Guelph
Free Poultry Raising Courses at Ontario Agricultural College Free Cook Books and Magazines

Over 1,500 prizes in all will be offered in bread-making contests which will be held this fall at over 250 rural school fairs taking place in Ontario. It will be a great event at the fairs and will stimulate interest in bread-making among young girls between the ages of 12 and 17 years.
Here is a wonderful opportunity for your daughter
win for herself a Free Course in Domestic Science contest at the fair according to the conditions
extlained below and more fully told in the at the famous Macdonald Institute, Guelph. All she
exillained below and more fully told in the folder we
was to do mond you on request. The loaf must be baked

## Cream in West Flour

## the hard wheat flour guaranteed for bread.

This is a splendid flour which makes the biggest, bulging loaves-whitest, lightest and most wholessme
bread your ever baked. Is this not a splendid opportunity to interest Here are the Splendid Prizes ofiered for the best
with Cream of the West Flour with Cream of the West Flour. The following are offered at each
 articles suitable for young people of all ages. It is published
in England. Value $\$ 2.50$ per $y$ year. nd Prize.- 6 mont
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Vrizes.
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Extra Prizes. - When entries exceed ten a 3rd prize will , be awarded
of 6 mos. paid-up subscription to " My Magazin."
 tions to. Thhe ilittle Paperines The is yarr s paid-up subscrip
 or natirestuay. animals, bird-ite, etc.

 container provided. The judging is done by Misensut. A . .P Proçol of
the Department of Breadmaking aind Flour Testing at the College.

## Conditions of the Contest






## Write for free folder giving full and complete

Addroos Campbell Flour Mills Co., Limited, (West) Toronto
with half a dozen engagements pressing, but looking up at the big dial of the
clock in the laboratory, and shaking clock in the laboratory, and shaking
the young man's hand warmly, he said, the young man's hand warmly, he said,
with a smile that is peculiarly his own,
"Young man give you is, never look at the clock." "-
Sel.

Mr. Alfred Perceval Graves, M.A., been giving Great Thoughts some has ticulars of that famous song. The orizinal of the song was Father, Michael Walsh, the parish priest of Kilcrohane,
near to the little town of Sneem. was a wonderful old boy and a keen sportsman," said Mr.
used to keep beagles, used to keep beagles, and I recollect fun with those dogs. I can recall a picture of the old gentleman in the
would climb to the top of a mound watching the hunt through his field shouting to the younger dogs. He was quite a character, and a very fine man." Father Walsh, it seems, was a skilful
performer on the Irish performer on the Irish pipes, and an
enthusiastic collector of the beautiful old Irish airs.-Otago Witness.

## Dunlop in 1788 was sold at Sotheby's

 tains the famous. The letter con-tonfession of his
priva private marriage to Jean Armor.
It is an interesting account of the poet's wife and her virtues and qualities, templated making this when he conto incarcerate me in gaol till I warrant find security in my about-to-be paternal
relation." The sum of K 16 was paid
for an autograph verse by Burns endorsed "A Card from Burns, 1791."
The lines read:-

## From gloomy desponding Most gladly absconding

I fly to Glenriddel's good board, Alliance divine-

## Current Events

## establishen near the town of Kempt ville Gren

An official "nvestigation into the high
ost of bread in bering mald in the
fhat the girl actually baked the loaf entered in the competition. The judges is inal. Not more than one ontry tair. The decision of the
and not more than one prize will be amader be be meach girl The Results of the contests at the fair will he made family. ontester the usual way as in the case of all the other rewnlar portsibte. after Provincial results will be announced as soon as
Province.
Do Not Miss this Great Opportunity : Every girl be

 No Competitions in Counties Named Below Schoompertition is open to all parts of the province where Rura of the province where school fairs are districtsts are the only part Agriculture in which thishoom orirs are hetd by the Department of

 mation about every feature of this great contes

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THE FARMER'S ADVOCATE.
in the red house there are a lot Well I do not know any more riddl just now. When will this terrible wast now. We hope will this terrible to say it but I do not think there will be any signs of the end before next summer. My father enlisted, but was not accepted. I think this is long enough. Remember Beavers and Wrishing the Beavers success. Merton, Ont. Amy L. Breckov.

## Subject. The Competition.

The first places in thent my holidays." The first places in this competition George J. T
George J. Thompson (age 12), Box Janet Grieve, (age 13), R. 5, Seaforth, Ont. Bella MacLeod, (age 14), Box 65,
Moose Creek, Moose Creek, Ont

How I Spent My Holidays. GIBORGE J. THOMPSON, TEESWATER, ONT Just before school closed my mother promised me, if I passed my school me with her to New, Haven Cond where she was going on a trip. This encouraged me to work harder. I passed my examinations, so I prepared to go. my father with the hay. I cut one field of hay, and also drove the horses, while my father buint the loads. I helped with hoeing as well.
In July 17th we left home for Toronto and stayed there three days. We then boarded the five p.m. train for Spring-
field, Mass. We passed through the fruit district on our way to Buffalo. At the latter place we went to bed. When we awakened we were passing
through the Catskill mountains where there is beautiful scenery. At Springfield we changed trains for New Haven and arrived there at eleven a.m. We visited at a friend of my mother's who New Haven is a city of one hundred and fifty thousand, and is situated on the Long Island Sound. It is quite a historic spot, for it was there that the Pilgrims landed. The church they built is still there right in the middle of the city Many of their monuments may be seen. Yale College is in New Haven, but as it was holiday time we couldn't go through the buings. In the centre "The Green." It is about spot called in size, and there are trees, and seats and many doves flying about in it quite tame, and no person dares harm them. All the municipal buildings face on this Green.
My first trip on the salt water was in a motor-boat, and almost every day was in bathing when the tide came in. When the tide is out the children go clam-digging on the beach, and this is excellent for bathing.
One day we went down to New York City, which is just an hour's fast ride. On our way we saw many munition factories. When we reached the city we took a subway car to Bronx park, a zoological garden where I think I saw every kind of animal and bird in the to miss him. After we returned from the park we had our dinner, then we went to Coney Island on an overhead railway. As we crossed the Brooklyn bridge we Coney Island there are all sorts of amusements which I enjoyed very much. When we were leaving there, quite late, the people were coming in thouswe came in a subway car and passed under the Brooklyn river. We returned to New Haven the same night and were all very tired.
When we were coming home mother and I came from Lewiston to Toronto across Lake Ontario, and when we got back to the farm it was just a month from the time we left. Daddy was finishing the harvest. I enjoyed said holidays, and my brothers al

## A Vacation at Sarnia Beach.

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> arrived there about seven o'clock in the evening, but found no one to meet us. The street car conductor, happening to know our uncle, directed us to his cottage. We got a hearty welcome from our aunt and uncle. We thought we would explore the beach a little. There were cottages on either side as far as you, could see. There was also a camper's, store at which you could buy all sorts of canned goods, ice-cream and candies, which suited us very well. Next morning the lake was magnificent, little waves danced here and there sparkling brilliantly in the sun. After breakfast we all went in bathing and later on for a canoe ride. In the evenings we sat on the beach and watched the sun set. The shadows on the lake too were beautiful, first green, then blue, and the glo ious red shade of the sun blending into t. The next day the lake was rough and misty. The large breakers came in and then fell with a roar. You would hardly know it to be the same lake. A dark, heavy frown seemed to have taken the place of the merry, rippling waters of the day before. For two days the rain came down in torrents. But for all the rain we had a pretty good time. We sang songs, told stories and made taffy. The rain soon cleared up and we had glorious weather. We were in bathing twice a day and thoroughly enjoyed ourselves. But the time came for us to go home, and very unwillingly we went. We hated to leave the dear old lake with its stately steamers and merry dancing waves. We arrived home safely ready to relate the story of the good time we had at Sarnia Beach.

## A Holiday About Home

## bella macleod.

Dear Puck and Beavers.-I have read your Circle with great interest for some time, and seeing in it the competition on "How I Spent My Summer Holidays," I thought I would write on it. Well, you may be sure I was glad when the school closed for vacation, Two months! Haw long it seemed! I beganyto plan what I would do during my holidays, but I am sorry to say First, there was the picnic on July 1st. It was held in Moose Creek, a village not three miles from home. I went up in the morning. In the afternoon some very interesting addresses
were given by some of the members of parliament. Then the "Pipe Band" rendered some excellent music, while a grand programme of athletic sports grand programme of athletic sports spending a very enjoyable day I came
Then I went on several berry-picking trips, and I certainly did have a great
deal of fun. Then, of course, there were a great number of socials at
nearby villages. I attended several and spent a very enjoyable evening at have violin and other instrumently music, singing, etc. One social which I Creek on June 13th. The at Moos Jock Hunter, was there singing comi songs and telling droll stories. The Pipe Band furnished splendid music,
while singing and instrumental music while singing and instrumental music
A neighbor girl and I spent many
happy hours playing games, such as mide-and-seek, tag and many othe and very often we played base-ball. soldiers of the 154th Battalion receive their colors, we and some neighbors
drove, making seven in all. Cornwall is about twenty miles from our home,
but as the road was rather new to us we saw many interesting sights on the
way out. After we arrived there and had dinner we were whizzed down to we saw the soldiers. They marched companies up to St. Lawrence Park We got in another auto and were there walked down to the water's edge where the scenery was very beautiful and saw number of soldiers that we knew.
time of the Fenian Raid. I was very glad that I had the chance to see it, never had the chance to see one before. The day before school started I was astonished to find myself as glad to start again as I was to stop. But I think if we take an interest in our as play.

Honor Roll. - Wilhelmina Petrie Bainsville, Ont.; Jean Gilchrist, Shanty Merrigonish, N. S. Name not signed Paisley, Ont. $\qquad$
Junior Beavers' Letter Box:
[For all Beavers up to Junior Third, inclusive.]

Dear Puck and Beavers.-This is Circle. My father has taken then Farmer's Adyocater has taken the years, and he likes it very well four sisters and one brother. We all go to school but my brothur and sister. Ou teacher's name last year was Miss well. But this year our teacher's name is Miss Wilkson. I haven't many pets, but the ones I have are cat, dog and hen called Biddy. guess the the Beavers. would write to me.

> Beulah Stinson,


Dear Puck and Beavers.-This is my second letter to your Circle. I go can. II to day every Sunday I can, too. I am in the Junior Third Reader. I am nine years old I Third one sister and no brothers. My sister's name is Jean. We have taken the Farmer's Advocate ever since 1 can remember and I like it fine, especial M the Beaver Circle. We take the Messenger, Globe, Westminister we haver and Sentinel. For pet We have a dog whose name is Captain Isn't this war terrible? this summer uncle and several cousins in it an of my cousins is training, but will soon be going overseas, and the rest of them are at the front. Some of the books I have read are Bessic Mildred's Girlhood, Mildred at Rose ands, What Katy Did, Black Beauty Vell as this a great many other will close.

## R. 2, Holyrood, Ont Bessie Lane

Their Views of Winter
e like it,", said the robin,
The bluebird and the wren,

## We must go South again-

## To those who ben

like it," said the snowbird, Whe are much more happy d we manae others goj

## like it," said the woodchuck

## rit now in cozy quarters, Without a singlo

 Without a single care,We settle down in quiet,

## trappers do not get us, nside a horrid box.,

## like it, too," said Bobby And Tom and Dick <br> we can Dave Dick and Ben,

$\qquad$

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Little Bits of Fun.
Harry," said the teacher, "you mord give us a sentence in which the And Harry, nothing daunted by the size of the word, answered. notwithstanding.

Dear sir," wrote the anxious mother, "I am afraid Johnny is not trying enough." "Dear madam," replied the harassed teacher, "I assure you that Johnny is quite trying enough. "He

## OurSerialStory

The Road of Living Men. by will levington comport.
Author of "Down Among Men,"."."Fate Rnowh
at the Door, ARed


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I had swooned in the silence. From arar off I heard the sound of falling, water and drawing near, for 1 was athirst,
was not a water-fall I found, but a woman weeping: and then the wild woodland place through which I had hastened, changed to the gray stone temple of the Quichuans, and the woman-Mary Rom-. any. Some scarty thing she had wor covered my bare arms and chest-but not enough. In trying to think what had become of my shirt-it all came back, and the woman felt me shudder, but it Lillian Yarbin broug
distern. 1 drank, and they bathed my face and neck, and my hands, which were fleck in the bad light; and whiter than Mary Romany at the temples. And I Mary Romany saw a man's shirt about asked if they sas found, trampled. They nywwere. It was when I arose, but begged me to come with them into Lost Valley. It was true that Mary's father was coming. They had seen his camp-fire on coming. The opposite ridge, fourteen miles away, last night. He would start early and be here within two hours. At least, they. hoped her father was with the par left They had been unable to sleep, had let Yarbin watching and gone down into the Canyon with the first light. Mary Romany been drawn down passage they heard vōices in the Vatican.
I stood upon the platform behind the Itar-stone and they brought me water. I told them I would go to the valley to would be well there; that only a few had gone wrong with the whiskey; that I was tired, but quite well.
"You will not let us stay with you?" Lilian Yarbin asked, but the other had asked it first with her eyes.
"No, I want you to meet him in the other valley-and to say that all is well-"
As the water bubbled in the key-bores, theard the far sound of firing. The women heard it, and asked.
"It is Huntoon practicing at the Pass. He knew nothing of this-
I held the panel open. I remember the arms of Mary Romany as I bade her go, and again bade her go back.
And now I was alone, and sank forward on the altar-stone ${ }_{1}$ and $I$ wanted the wroman's arms. The firing lifted me again. I had lied about that. I moved across the Vatican as one in a dream.
Suddenly there was a furious reverse in my mind from hatred to happiness. It was like a plunge in a pool of sheer joy. Pass. If Orion had surprised the diminished command there, and taken the positionthe beasts who had tortured me were penned in the valley. I had but to swoon -to let go and sink to the stone.
For ten seconds, at least, I was a slave to this poison. My hand flew along the inner locks of the great iron door-all shot and effectively barring out the miners and the soldiers. It was not Ilor 1 was not anl there-just another I heard running feet and the spent and husky voice of Maconachie: "For God's sake, Mr. Ryerson-open the door- came to my eyes, as I re-
Tears membered the night: and the queer horiest length of the "o" in God from his lips, made a babe of me. I was already reversing the locks.
"What is it, Mac?" I called
"There's a fight at the Pass-and it sounds nearer. . I've gathered
the women, and the men are standing for your orders-the drunken lot For God's sake, open-and take over command. It's all up, if you don't."
I pushed back the great iron door and squinted at the red of morning. Maconachie fell back from the sight ${ }^{\text {of }}$ "Yes, they thrawned me a bit, Mac. Yes, I know you didn't have anything "To with it. Dole's whiskeyat the Inn," he said hoarsely. "I couldn't stop them. I told them I was done with them."
The women of the placer passed into the Vatican-and many of them shrank from me. The poor creatures had felt the brunt of the night's. lawlessness. Down by the river the miners were running to and fro, many already started towards us. And on the trail a mule galloping furiously was the old gray vixen that had creased me. Maconachie signaled the rider, who was reining toward Headquarters. He turned his mount like a flash.. Fifty feet away, the fiery beast stepped in a rut-sprawled and slid with thud and groan. The courier launched forward until the bridlerein, which he had not dropped, brought him whirling to the turf. It was a Most sensational delivery. senger, whose face was twisted with

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the torture of a mid-riff vacuum the lis mon o mid racuum onds before he had air enough to sound the words:
"Orion has taken the Pass. give way. Huntoon has joined them to slow up the retreat, so you fellows will have a chance."
I ordered the courier into the Vatican, and sent Maconachie to bring up the miners in what order he could, and took the post at the great door, watching the ascending trail to the Pass. I was still dazed.
The old gray mule arose, snorted,
shook herself, and turned about toshook herself, and turned about to-
ward the Pass at a fast walk ward the Pass at a fast walk.
And now the miners were crowding in; and I watched those who hastened with averted eyes into the gloom of the Vatican. They hurried out room. Shame and fear and nausea room. Shame and fear and nausea eyelid; others fresh-awakened from stupor were even more swollen and deathly. I have seen it since,-where one is rudely aroused from the death of drink-the look of Lazarus newlycalled. And Dole, looked at me genially; and Dole's hair was
subdued with much river-water, and subdued with much river-water, and his face clean and his eyes bright.
He seldom drank his stuff. I had a


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suspicion that it would be hard for me to forget Dole.
It didn't occur until afterward how I must have looked to them-my face altered, my wrists and hands blackened and swollen, my throat covered to the chin with Mary Romany's scarf. . . It was a hideous moment;
yet matters were conducted with yet mated.
speed
"You men, not too drunk, take
guns and shells. Cover the retreat guns and shells. Cover the retreat of our soldiers, I ordered. "Give Don't stand for much fire, but make of Orion. . And you the rush stay in. Sit down and rest. It's all right. The old Master is expected Swiftn
Swiftness was needed. Orion
had swarmed over the Pass and was driving Huntoon five to one:
Maconachie, with a party, was bring-
ing food and valuables from the settlement, though there were extensive Atores in the Vatican-vault and beyond. eagerness of the men to obey my voice caught strangely at my heart.
Presently I saw Huntoon's men under fire as they were crowded down from
the Pass. dawn rolled up like fire-lit smoke behind the mountains; its mighty grandeur curiously foreign that the night of men and myself and the world. Even the firing seemed small it all came timidly at first the memory of my love across the range; I had not rightly realized her in the Vatican. mind by torture and hatred-a beastly combination when alive in a man, but now devouring itself. It is true, I did not hate these men now. Ma-
conachie warmed me with his zeal. conachie warmed me with his zeal.
His voice, through the iron door-a hard man's giving up in great stress some of those who And the Vatican and passed into forth into the line-had tortured gone How far torture was from from their minds now. And I might have done the cheap thing; might have failed to serve and save them. Something
came to me this woman beyond the mountain. This was the moment of life's renewal. "We won't the line.
enough to get cut up, fellows," here long "just long enough to show, Orion we're lined and in order-just to give Huntoon They're fighting for us-and the got a ,get-away that Orion doesn't A cheer came up to me from the
miners. That cheer choked tears-as torture had not done. And the fight was on, the steel singing.
"Fall back now-easy, men. There's plenty of time for a last look at the
golden river-a last river and the dredge. at the old can have it now and the gold is And is say, men, look at Huntoon, at his day's work. The old Master
knew a soldier-"
"And he knew the boss of us all",
hoarse voice, said significantly,

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"We're all one back, enthralled biece now," I called Huntoon, who knew how figure of and how to stand, and what was way before an enemy. He had dis-
dained to leave his mule, up and down, between Orion and our men, falling back-an attraction
of shots and an inspiration "Keep the door open till the last man is in," I yelled, turning toward
the Vatican; and a moment
I was in the I was in the midst of Huntoon's soldier
breasting through back with them them and swept their queer talk amid a killing fire. . . and was gaining ground in a business like way-charging as skirmishers and dropping to cover and fire every of his forward line of rifles, as it swung
to cover Huntoon and mule. Now it occurred to me that my friend was known to the attacking
party. With a clutch
thought added, that
be especially eager to kill Hunt for that reason. At this instant
shot felled his mule cheer from the skirmishell stride. the fall. Huntoon cut it answere regaining his feet and resuming by inspiration. I bellowed resuming
"Come on in, old man-" covered. Everything is man,-we're al Come on to breakfast-it's cold inside. the door open.
But the blithe ruffian wonldit hurry. He had got his men safely some. All but a handful of his own I made for what it meant tittie party-thinking who refused to come rather wilful boys Huntoon had come in out of a storm. -until his party was sof soldier-like me and called: party was safe. He saw coming" back. I'm all right-I'm from his knees. Again he sentence up. And now I think he must have fallen, ary from one of our ward a man staggered forward toover him and fell was down-bent body. Orion's front was less than I had yards away.
at my side saw I had to have A chap My friend, the remittance him. . grinning up at me, but the man benas was dead. A hand helped meneath the smiling one-a steady hand in that murderous swarm. It was Mąconachie, who had not left my side.
Orion's men were upon us as we gained the bullets the bullets upon the iron portal-and Huntoon. A the whole weight of out to help us in hands stretched slammed upon the new big door Tropicania.
Maconachie was on his feet with wound in each arm. his feet with of my escape did not occur to me till afterward. The yells of Orion's men outside and the silent crowding at hand, were but vague matters of consciousness. . I was bending over Huntoon, who had been hit a dozen times. me like queer," he said, smiling at "how the booze can throw you. play, They got some of Dole's stuff at the Pass last night. Me-Huntoon-sleep ing in between, and Tropicania drunk at both ends. : Orion shoved a big bamboo bridge across at dawn I'll bet he heard our sentries snore. That's what woke him up. Queer how the booze threw me down "Huntoon, old soul,-
in beautifully-,, old, soul,-you brought He winced.

## "Oh, I know

' said "Oh, I know," said I, "it would it took a soldier to fall back. Only after you got the men within the shadow of the Vatican-you lost interest and

## "Queer how the old red booze-"

And just then 1 saw his forefinger wriggling-as if to beckon me closer. old lady-that I was the original river. water kid. . . Leave me alone, Jasori -these here are my obsequi Say to the old man-I mean Romany And he looked good to me. © Old Top,-oh, you'll know what o say. - And what's coming Mention the that Mission up the River. Mention the Mission in St. Louis, You'rl go up the for Missions. You'll go up the River sometime-give He didn't finish that sentence, but added: "Ive got to laugh at the old red and me sleepin' like a deacon in a dry country. And say, Ryerson, we pulled together, didn't we? 'Member comin' down the coast to the Headland? . Why don't you get reckless and put on a clean
That was the last he said.
I wat was the last he said. couldn't get it all straight-that Huntoon had crossed over-that just the machine he had fought with, was there by the wall, covered. t . The air was geting close. temple, and in sickening silence.
"Orion thinks he's got us penned, and won't hurry," I said. "But we must get out of here-at least, all but a guard to keep him guessing. door without artillery and it will take time to get a big gun. The dynamite is all stored here. No pipes nor cigarettes. Yes, I know how excitement makes one itch for a smoke. Also, there are women present. Fellows," I went on, raising my voice, be no tales told when we pass in review before the old Master-which won't be long now, I think. Orion fooled us when we were changing a guard at the Pass, and I had called Huntoon down for a conference. dredpe nor the any tron for the rest, we'll lay it to river- King Alcohol, and we won't be so far wrong. . . Now l'm going so show you the gold and lead you out into daylight."
Water was brought and the panel swung. . . Directly upon opening the second door to the mountain passage, Yarbin's heard the fring and were frantically awaiting word-that the old Master was being carried in on a litter across Lost Valley, and would be with the women in a half-hour. I told him hastily of the attack; and that all the placer people were behind, in the
Jatican. He hurried back through the passage. And now work began.
A dozen men were left in the Vatican. The rest carried the gold and stores through the passage and up the trail to a place ammunition, except the dynamite were essemoved At mid-forenoon Yarbin brought word that the old Master was anxious to see me. They had raised a tent for him at the top of the trail from the gorge. As I gained the eminence where the pennant futtered from the bamboo-cane, 1 looked across to the terrace where she had stood. And there she was waiting now as before. She waved at me. She was an I asked father that I might ro to him That tent at the top of the gorge was like the hall of a dying emperor to me. He had kept his word about preserving enough vitality to see the end of his journey-but there seemed not much left over. - . He talked blithely, listened with that quizzical of the morning; and when the attack of the morning; and when he began to look too closely at me, I told him The Alcyon
of mileyone had been driven hundreds of miles off her course on the way up
and had reached San Diego ten days late-but with her lives and her gold. How Romany toiled may be imagined, since his return to Lost Valley bad been but three days behind schedule. The office had been established; the assay completed. Each man's allotment for the first and main shipment was delivered on an order, ready to be in charge at San Doro. The Alcyone was once more lying in the mouth of the Clara, ready to carry back the men and treasure. There was currency for Yarbin. The terrible Tropicania game was won.
Romany seemed to respect my tension regarding questions. I must have been half-mad. All knew, was that my work must be finished. There were a old Master gs wanted to ask the we had not quitted the Pass-instead of losing it. I still kept hearing Huntoon's words. The flesh was broken upon my back and throat and hands and face. The men literally leaped when spoke- as if I were the devil.
All
All that day we toiled, and Orion was more or less quiet. I think he was puzzled. He wanted to give us a taste of confinement and bad air before treating with us in the usual
military fashion. At envoys to the great irast he sent no Late that afternoon, when all the dynamite had been carried from the Vatican into the vault, I closed the trachyte panel for the last time. Huntoon and others-too many the sacrifice where in the vault, under the tarpaulins now I detailed cored the gold. And now I detailed three of Maconachie's the passage. I wanted the very heart

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use Basic Slag if it did not pay them? Eventually the same conditions will prevail in Ontario but our great acres of old pasture this Fall and watch results on four If we have no agent in your locality we will supply you at $\$ 20$ per ton, freight prepaid to your station, cash
with order We have a very interesting and descriptive booklet,
in which will be found the experiences of many Ontario in which will be found the experiences of many Ontario
farmers who have used hY WDNEY BASIC SLAG. This
will be mailed free on request to
THE CROSS FERTLLZER CO., Limited Sydney, Nova Scotia


NO housewife could be more critical than we in seleciton of baking materials. Highes grade flour, pure shortening, sweet whole milk and June creamery butter-these are the things that account for the purity and wholesomeness of
Mcormick's
$\underset{\substack{\text { JRRSEY } \\ \text { CREAM }}}{\text { OUS }}$

FREE LAND<br>Northern Ontario<br><br>

$\left\lvert\, \begin{aligned} & \text { of the mountain emptied into it, beyond } \\ & \text { the possibibily of Orion getting through }\end{aligned}\right.$


| 21 |  |  |  |
| :---: | :---: | :---: | :---: |
| The mountain peaks |  |  |  |
| Calley moross Lost |  |  |  |

Salley - I thought for many days
-belonged to another planet. II could
just see the black and placial tips
just see the black and glacial tips
through the tent-opening; and from
wherg
where my head lay, no depth of valley
was in view-just the ethereal divide
and the sky, and that far, alien coast
of peaks

| Distantly $\begin{array}{l}\text { I remembered the men } \\ \text { filing past my cot-holding their hats }\end{array}$ |
| :--- |

in their hands; and one voice that put
out the day and hurt me with rope
and beam and and
out the day and hurt me with rope
and beam and stone and evil niog nt.
There was a renewal
quaintance with those renewal of ac
of beiferent plane
of being that had puzzled me, on the
iourrey down the Yellow River. Some
thing
Nite was lett from the faces that file
interinahy by a goodness, a strength
aity-thrilling from the hard hath
a pity-thriling from the hard hands
that touched mine and from the faces
of men who did not try to make
of men who did not try to make words
work.
First of the tangible things, a pair
of long lank legs. These shut off my
of long lank legs. These shat off my
other world one morning. I followed
them up and
until (as one csrambles panting woarying
I found Masonachie. The a crest
finding. I think the blasting did it. Oftt
those are rare friends that you have
to blast fare friends that cour have hav
lo har
like flippers, for they were bandaged and
in splint. The
like fippers, for they were bandiaged arm
in splints. This recalled how we had
hrought in Huntoon
heder
hrought in Huntoon after his last stan
and thow Mac had dropped his par
of the burden at the Vatican

burst intonedomy beves, hut smis smile
may have known that smile. mothe
mat
time possibly another wom some- will
get it but I am the third, having
blated for It
For a long time no one would talk to
For a long time no one would talk to
me.
Yuan Kang Sten I seemed lark with
Ithe the rives of Babyion

bue. I thirsted to drink agan of
that vapory occan as the day came
up over the mountain like the tip of a
aponing
flamingo feather. But a lways It would
rementiber China- not the mother, but
the molt.
the mob, -the mob that had dertroved
him hecause he whe was an individual.
Always the mob is frenjied luy

- that was Yuan's Gord-touthed woman
perceives a shining One in the moman
of the myriad that wait upon the Sliore
She calls-and wasely
he gives him cagerly He come to the world a mad


Ind I had come to a lmetre country
or knowing the nolveman, Yuan Kang
ol
The days passed
swiftness. There was a hith unnatural

SEPTEMBER 28, 1916


## Izdeceon

For Your Husband
"My wife always buys me Deacon Shirts" said a farmer the other day. They are both well satisied. with plenty of soom for good fit, with plenty of reedom. The wife is proud of the neat appearance and the freedom from mending and patching, and the eternal sewing on of buttons. The wear is the:e. All good dealers sell Deacon Shirts.

Deacon Shirt Company belleville, canada


Asure
PrizeWinner
TMindsor


THE CANADIAN SALT CO, LIMITED ${ }_{173}$
HOTON: $=$
C RNETS,
TROMBONES,
BAND INSTRUMENTS WORLD'S BEST

Thos. Claxton Limited SOLE AGENTS TORONTO, ONT.

Cotton Seed Meal the chishone, or write for prices. he CHISHOLM MILLING CO
Toronto, Ontario
them. . I knew that if I could
awaken just exactly as I wanted, Mary
Romany would be there. The Romany would be there.
first I remember of real talk The
ins with
Sill and more than ever unbounded from long companionship with Mary Romany. Then a day afterward, the
old Master came, on the arm of Yarbin.
He He caught my hand and held it up
to the light. It was whiter but peeling. to the light. It was whiter but peeling.
started It wondered at him,
to
speak. This
the started to speak.
he began to bring mee nates. Very
carefuly he told me of the day when carefully he told me of the day when
the miners marched out of Lost Valley - how twenty of come hould not go,
until they had see me.
He reneated every detail as if 1 were a He repeated every detail as if I were a
child--how they carried their
hats, and touched my hands, and muttered my name and other things. he added, you are an old man, Tom, will remember what
I am telling you now. You will be glad for every detail. It's a better
thing than I have ever done. They thing than have ever done. They
will tell it, after the sting goes out
out of the memory-that night in the vatican,
They will tell their wive Yhey will tell their wives and chilican someone in the twoyld read or heving his on man-
hood they will think hood-they will think of you opening
the iron door.
see them glad I could I $\begin{aligned} & \text { knew better, but his eyes held } \\ & \text { me, } \\ & \text { delighting }\end{aligned}$ in the happiness he gave. "When I asked for volunteers to stay withen
twenty offered," he continued. "We
needed but five or six. Maconachie needed but eave. I want to know some-
refused to
time exartly what you did to Mac. time exactly what you did to Mac. lady-we couldn't spare "They are not quite ready for us in
the States," Yarbin said with a smile
" "twe "I've sent instructions to Leek to take care of Yarbin's case. "
"Then there's. just a handful left in "Lost Valley?" I asked. women,, Mac
 left:" Twelve days ago-the second day I laughed, but only Mary Romany would have known why. Fourteen days
I had drifted, but the days of the Year had registered just the same. Less
than three weeks left. than three weeks left. happen to stay
"And how did you
in Lost Valley-this little party?" in "Take your choice of several reasons,
After the bad weather off Lower Cal. After the bad, weather off Lower Cal-
ifornia last trip, I was very glad to wait
to this voyage. I was always a landsman Why, 'I've hat a chance to draw a breath
of real life something that hasn't to do with gold. The last two weeks
have been wonderful to me who had
to be carried across the valley from the ship-" " ${ }^{\text {s. }}$ saw wrong that-that day of the
blasts.," I said. "I thought you were " "NWe all thought you were, 'Tom,' he anssered. You were a ruffian and
a mad-man. Nobody dared approach you -until they 'let go' the powder quiet here has been important for you."
The day afterward, the old Master came alone and whispered: "It was
Mary who first thought of staying Mary who first thought of staying
She asked if we were safe from the
She other valley if the Pacific lay between
as ssef. as an
She asked if there wwe provisions
Sta in plenty, and told her we had enough
for a year. It was then, declaredyou were not toating away off among the
I we fords Covent memories. . The words
of Mary Romany one morning in the
Ont Other Room returned: "You think
there is silence here and solitude. This there is silence here and situde the edge of that silence and
is but the
solitude I Iesire, -when our day comes sol think I am very strange and terrible
I thit I want to meet you in some land
but mighty wilderness-that I can make glad for you." "She is well to-day?" I whispered "And she does not come near-here?"
"You are too near well. She had
everything in hand the first week. ..


ALEX. POLLARD
634 Princess Avenue
London, Ontario

## DELCO-LIGHT

for Middlesex and Elgin Counties LOCAL AGENTS WANTED


When writing please mention this paper

FACING BRICKS HOME OR BARN


 are nureporincia
Breseco Dpier and you coild not do betiter than to write us

 Interprovincial Brick Co. of Canada Limited GGodTEAR BLDG.. TOROMTO, ont.
fortwiehtly salluges Twn-Screw Mail Steamers ST. ЈÖHN(ma) HALLFÄ天 west índes


 The Royal Mall steam Packet Co., 57-59, cranvillo st. MALLIAX (N.S.), Looal TICKET ACEMCIES.

## Cream Wanted

Advancing markets, together with
our twenty years' experience, our twenty years' experience,
should interest you. We
invite invite your inguir)
for particulars. particula
Any Banker ${ }^{\text {Refretences }}$ Any Craam Shipper TORONTO CREAMERY CO Toronto, Ontario

## CREAM <br> Where are you shipping now? And what are you getting for your cream? We want more individual shippers and more men to gather cream Write for our proposition <br> Silverwoods Limited

CREAM WANTED


Ontario Creameries, Limited


You do things in your ow
$I_{1}$, haghaded
Lillinghe
 hard to understand she ever tried so watched me often with a queer expand
ing smile and
sit ing smile and a steady intent look in
her eye then she would sha her eve- then she would slap her hands
together and shake her head "But she's here and youtre here, and you are dying for each other-"
There was as far as she could go There was a fineness about Yarhin.
semed to
Rut then him from speaking seemed to keep him from speaking
But then he never told his oww history
Ioften wondere if Telk
 Orion.
Now that I was improving so rapidly a letter came every day ${ }^{1}$ I wrote o strangely dear they were of Yart how Maconachie and the old Master. $A$
man's friend man's friends the ships that come
and
an from his hatho and go from his harbor, and are so
welcome. These brought profts to wecome these brought profts to me
dearer than the sands of the Calderon
and A man's fleet of friends-honors a man lying beached woman, ir orten think of broken at evening and quietly hurrying in from fer seas

- the brothers of the feen -the brothers of the fleet. . I
told Mary Romany of the messages Yellow River, pilgrimages to to Yes, there was a light upon the last days-hours with Romany, with Maconachie, a dinner with' Yarbin and his Lillian; a strange but intimate
association that brought from the depthat of the sight out values
fad remained miners who of remained against every desire
of their hearts. Then, alone with my thoughts-hours and hours of grateMornings and eve
mountain-side from evenings across the terrace to mine-the mute waving hands.
tent, she was just coming her father
was startled, smiled; for an instan searched my face as a mother searches
the face of her son, home from hi
first far voyage. bowar voyage. On she passed -head
bowed in the perfect olive glow. Nothing had I missed, the seam at her shoulder,
the white at her temples, nor glory.
old
M the mountain tent after that, but up where the air began to nip from the
snows-alone, to realize, as the mystery and beauty of a might,
woman. woman.
(the glacier far of all possible ascending cut diamond set in rusted iron) I found
a spring, and traced it the a spring, and traced it to the source,
ice-cold and pure. The air had sharp-
ness from that ice-jewel, but brave ness from that ice-jewel, but brave
fronds were about the Spring, and a
network network of vines and creepers. There
I stood in the dimness-and the source
became and became a shrine to me. For a moment
I touched Realities; for a moment
I had vision and humen men I had vision and human kindness-an
exxellent stamina from the high source
of good things. of good things. And this has remained
with me: that Mary Romany and
were one: that more as now, we were one; that her nosh
is but a tithe of the meanin
love love. And a continuous lustre grea
remained from
fine fineness
of self.
and beheld the network of vines at last I had not known before-the eye that Aondean peaks beyond, their the great contours, monster ice-packs; $\left.\begin{array}{c}\text { and inperial } \\ \text { and } \\ \text { that inter-stellar stillness, I }\end{array}\right)$. new the that one might learn easily to hear his
soul. That night I wrote a note, and told
of the realizations,- and the of them, the high gushing Spring. And of happiness; at least I caught myself declaring devoutly: ". a and
when you have found her -go away
for a Year. Say to search for a flower, of pure spirit that takes root amid loving and dreaming
and waiting.". Queerly tuck among the sentences of a letter I re-
ceived the next dusk was a line-that sometime I should find her there at
the Spring. There remained but three days of
the Year. I had passed the afternoon
with the old Master



## King"

## Hot Water BOILER

Are you one of the ten thousand who realized last winter that the heating sys
tem in their houses was not satisfactory? You probaly MUST put in HOT WATER heating, and we wrobt to help you in thimply lem of deciding which Boiler and Radiators to adopt. There are in the probshould be your ctical and proven-why the King Boiler and King Radiators economical in fuel and the most satisfactory in heating the it is the most statements are not exaggerated, advertising puffs, but are cold facts. Which wese your while to find out about the King Boiler and Radi-th ators, even if you don't buy them. Fullest information is no trouble to give you-we are glad to do it
Write for Our Free Booklet,
"Comfortable Homes"
We have put the explanation of the construction of King
Bilers and Radiators in simple language. free fro
nical
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In RAMSAY PAINT you get the most accurate and thorough materials exist. Your own raw materials. Master painters will tell you no better
is superior to guess-work and "hand pant will tell you that scientific machine mixing Specify Ramsay for your next big-job-and for th
Ramsay finish. Splent
A. RAMSAY \& SON CO. (Established 1842) MONTREAI Branches at TREAL, Que. FOR SALE BY ALL DEALERS

## Kiustin Oirt Man STuIP PuIIR Makes Land Clearing Easy, Economical, Practica

 Leverage Model Kirstin wonderful strengtb, speed and porver of the new Doubleany man the strength of a sian one at work. Compound leverage give
eas ease. The Kirstin way is quickest, easiest and cheapest puay to clear stump land.
No heavy cumbersome mith No sweeps to break, no horses to risk, no dynamite, no get stuck in boggy placee.

Try The KIRSTIN For Ten Days

 Wrounc or
Thick
Timber. Write Today For The Big Now Kirstin Catalog


## Cost and Service

The.two factors considered before a purchase is made.

## Steel <br> Truss Barns

measure up to every requirement. They are as sturdy as a skyscraper. They have no crose-beams to hin They unioading or mowing away. They have metal clad, roller doors, lift roof-lights, sliding side windows and "Acorn" ventilators. The cost will compare favorably with a wood frame barn.
"Send for a copy of new book,
The Metal Shingle \& Siding Co., Limited
Preston. Ont. Montreal, Que.


Every Farme r shove io Martindlecher PRIf: ony $\because$ AND ROAD CRAOER 41 Do gourd draming Suen you noout.
 IDULAS STALETT, PKESTON, ONTRRIO
 PEDIGREED LIVE STOCK


 Now is the time timport, prospects were never
better, andinsurance mpainst all war irkss can be
covered by payment of an extral $1 \%$ only ALLOWAY LODGE STOCK FARM Angus,Southdowns, Collies

Southdowin Prize Rams ROBT. McEWEN, R.R.4,London, Ont BEAVER HILL ABERDEEN-ANGUS CATTIE
AND OXPORD DOWN SHEEP Buls from seven to nineteen months old. Females all ages Shearling ewes, ewe and ram lambs.
Alex. McKinney, R.R. No.1, Erin, Ont.

## Gossip.

Tho National Dairy Show
The great National Dairy Show to be held at Springfield Mass,, promises to be the best yet in dairy cattle displays. Day; Tuesday, Oct. 17, Holstein Day; Wednesday, Oct. 18, Ayrshire and Brown Swiss Day; and Thursday, Oct. 19, Jersey Day. Plan to attend and see your favorites judged. A big horse show will be staged evenings, and everything promises well. The people of Springfield have offered to throw open their homes, and if desirous of reserving acommodation, write the manger of the show W. E. Skinner, or to the Convention Bureau of the show, Springfield, Mass.

The McKinnon Shorthorn Sale Breeders wishing to purchase Scotch to do so by attending E. V. McKinnon's dispersion sale of thirty-six head, to be held on his farm at Rockwood, on Monday, October 9. In the offering are
fourteen breeding cows, some with calves fourteen breeding cows, some with calves
at foot; eight heifers that-have been bred; eight heifers that have not reached breeding age and six young bulls. Three of the heifers have been bred to O. A. C Augustine 88721, and one to Sultan
Stamford, a son of Browndale. Among the bulls are two calves by Gainford of Salem, a son of Gainford Marquis. Some of the families represented in the Cruickshank Secrets; Miss Ramsdens; Russell Isabellas; Strathallans; Village Blossoms and Wimples. The herd has practically all run out on grass during the summer and as the pastures have been poor they are not in high flesh.
However, they are in good breeding north of Rockwood and nine miles miles of Guelph, just off the Guelph-Erin gravel road. Trains will be met at Rockwood on the morning of the sale
and lunch will be served at noon o the holiday coming on Monday there are reduced rates on all railways.

The Hume Ayrshires.
Official testing, careful breeding and systematic culling has brought the noted Ayrshire herd of Alex. Hume \& Sons,
Campbellford, Ontario, to a high standard, not only from the viewpoint of production have reached a show herd. Mature cows test and one of the two-year-olds now
under test has in $7,000 \mathrm{lbs}$., and is still milking 30 gound a day. In competition with the country's best, the herd ranks high at the shows. in the official record or are now running in the test. All under eighteen months
are get of that great bull, Hillside Peter are get of that great bull, Hillside Peter Ayrshire bull at Toronto National
this year. He is a bull of remarkable lines and of excellent quality. On his nowned champion, Duke of Peter Pan,
One of his full sisters in as a two-year-old gave, on official test,
7,000 pounds of milk. On his sire's side he is a grandson of the equally renowned champion Nethercraig Spicy
Sam. From this it will be seen that Sam. From this it will be seen that by his championship, splendid form and majority of the milking females in
the herd are either importan y imported stock. Breeders wishing purchase foundation stock or herd
headers write, A. Hume \& Sons your The use of liquid fire, revived by
the Germans in the present war is a the cermans in the Present war, is a
survival of the old "sea-fire," says
Literary Digest, or of something that

```
powder. Something of the same sort,
```

McClellan
consonanc
warfare.

## The ManWho BuysThis Silo GetsTwo COws FreE

WE have authority for saying that duce as much fed on Silage produce as much revenue in milk, without Silage." Two more cow



Wooden Silos Preferred



 14 Reasons Why This Silo Should Be Yours (2) staves doutble tonguy sedected and white Spruced; (3) ali wood prarts creosoted which prevents, rotting eplinesink in end of mateve it acid proof; (4) steel fit thoes bottom hoops, special steel, bent to plied for trightening hoops; (8) ${ }^{(8)}$ doors fit sper ectly. frame bevelled and and rabbeterd to peere
aboolutely air-tight, doors close with three
 cantly taken out or preplaced; (10), window at (1i) proof provided with three sumporting illing;

 we make our pamous Sprink perter Tanks. of of onlused in thich



Silage
Machinery THE Toronto Economy Sllo is bullt thith madeal

 reliable performancest Write Today for Silo Catalog Ontario Wime Engine and Pump $\mathrm{Co}_{\mathrm{o}}$, Linith

93 ATLANTIC AVENUE TORONTO, ONT. Branches: MONTREAL WINNIPEG REGINA CALGARY
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Bulls to Head the Best Shorthorn Herds
paigner $=106892=$, Royal Triumph $=10689389$. Commind
er's Heir $=106131$. er's weir $=106131=$, Ambassador $=16894=$, etc. The bes
lot we ever bred our bulls have made good-bulis hred
identically to them in the lo theasing. Kexhibitions. In these bulls in Canaid. Se
desirables thev are desirable, big, sappy, and characteristic of the virut
Their breeding is faultless. They are attractive reds and
roans, and will teen roans, and will keep on improving. We have Princein
Royals, Wimples, Rosebuds, Scouts, Willean Pition Royals, Wimples, Rosebuds, Scouts, Kilblean
Mysies, Cecilias, Victorias and Orange Blossoms.
" Pren from Guelph. Plains" at Arkell, C.P.R. Station, 3 m

The New Home of the Auld Herd
The Land of the Big Beeves

1 Pasant an|ey Shorthorns individuals and stock bulls we know of. of the bout e can suit you in merit, breeding and price.) Loyal Soot ind gixitic SCOTCH SHORTHORNS maen of high-class, fashionably-bred Scotch Shorthorns in calf to Sittyton Sultan's Dale, a Mina-bred son of
Avondale, dam by Whit A. JOWDEN, COLUMBUS, ONT. Myrtle, C.P.R., Brookllin, G.T.R.

## Shorthorns and Shropshires <br> T. L. Mercer, Markklal, ©it

 Nammen min ShorthornsPure Scotch and Scotch topped-Booth. Also five (5)
young bulls from ten to twenty months old of the
low down, thick kind, good colors-reds and roans E. MORDEN \& SON Oakville, Ont.

## IRVINEDAIE SCOTCH SHORTHORNS

 ouroffering this year in Scotch Shorthorns is probably the best we have offered for many years; thereare several young bulls of serviceable age. right good ones and breeding the very best; also female of
any age.
JOHN WATTT \& Choice
Breeding $\quad$ SCOTCH SHORTHORNS We are offering this fall the choicest lot of young herd headers we ever bred
serviceable age, hlgh in quality, rich in breeding Also number of heifers
GEO. GEO. GIER \& SON
WALDEMAR, R.M.D.
$\underset{\substack{\text { Hiigh } \\ \text { Ouality }}}{\substack{\text { seyeral are }}}$ several are of Grand Valley St:

September 28, 1916

## Questions and Answers.

 Miscellaneous.A Renter's Query
A rents farm from $\mathbf{B}$ for a number of years and B sells farm. Would A have lease to hold farm for full time.
Ans.-No, not unless the lease read Anbject to sale.

Chauffeur Requires License.

1. Can a person answer an advertisement wanting a chauffeur as long as
he understands a car fairly well, or does he have to pass an examination for that purpose?
2. Do you have to have a license to be a chauffeur?
Ans.- 1 and 2. A chauffeur must pass an examination and secure a license hefore he can qualify for a position as such.

Water Supply.

1. Our well is dry. We are 20
rods from a river, with a fall towards it of about 20 feet. Would a gasoline engine draw water that far? 2. We have a spring on the roadside 40 rods away, with a fall of 5 feet towards the spring. Would an engine
draw the water that far? draw the water that far?
get their water supply this way I would be pleased to hear from the same.

Ans.-1 and 2. Providing the water is not over 25 feet below the pumpsucker water can be drawn a considerable distance with an ordinary pump. herefore, there should be no difficulty in securing the water supply from pump driven by an ordinary suction some draw water about 20 rods with a hand pump, but it is heavy work.

Underdraining a Farm-Seeding Down a Wheat Field.

1. When is the best time to seed down a field of fall wheat, in the fall
when the wheat is sown or in the spring? when the wheat is sown or in the spring?
The soil is sandy and the field is rolling. The soil is sandy and the field is rolling. What mixture would you advise sowing?
Would alfalfa grow successfully on this kind of land? 2. A has a farm of 75 acres with a
mortgage on it. The farm requires
underdraining. If.' Tincreased tre underdraining. If'A increased the mortgage say a nother $\$ 500$ to drain the able to lift the mortgage a would be sooner? lift the mortgage a few years Ans.-1. Some have had good success seeding in the fall, but the general practice is to leave at least the clover seed-
ing until spring. There is always the danger of wheat winter-killing in which case the seeds would be lost. It can be sown before the frost is all out of
the ground in the spring The mixture depends on what use is to be made of the crop. If for a permanent pasture a
mixture of several perennial grasses would be advisable, but we presume the crop is required for hay. If so, 6 or 7 pounds of red clover, 4 pounds
of timothy, and $11 / 2$ pounds of alsike seed makes, a good seeding. The amount of alsike and timothy seed might be lessened and the red clover seed inof soils, provided grows on a variety
is good underdrainage is good and the soil is not acid. It might do all right on your soil, but it
is not so certain a crop as red clover. If desirous of growing this valuable legume it is advisable to try it on a
small acreage before going into it too small acteage before going into it too
strongly. demonstrated that it pays to tile-drain soil that has no natural drainage. off their marms have cleared the mortgage into debt fy first going more heavily pends largely on how badly the farm requires drainage, how carefully the
work is done, and how good a manager the man is.

A sentry, an Irishman, was on post
duty for the first time at night, when
the office of the day approached. He
called, "Who comes there? "Officer of
the day," was the reply. "'Then what
are yez 'oin' out at night?" asked the
sentry.

THE FARMER'S ADVOCATE


## DISPERSION SALE OF

30
Females

## Scotch Shorthorns

Tuesday, Oct.10th, 1916
Send to E. V. McKinnon, Rockwood, R.R. No 1, for Catalogue of Dispersion sale of Scotch Short
horns, to be held at his farm, 3 miles north of Rockwood and just north of mile-post "9, on Guel ph Erin Gravel Road, on Monday, October 9th. Matchless, Mina, Marr Flora, Cruickshank Secret, Miss Ramsden, Russell Isabella, Strathallan, Village and Wimple families to choose from. p.m. Trains will be met at Rockwood, Ont., on morning of sale. Lunch served at noon. Sale at CAPT. T.E. ROBSON $\}$ Auctioneers.

McKINNON BROS., Proprietors

## 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 dams; also for sale, 20 heifers
mond and young cows, several with calves at foot, all
especially suitabie for foundation purposes.
Mail orders a specialty. Satisfaction guaranteed.
-MITCHELL BROS.
Burlington, P.O., Ont
Robert Miller Still Pays the Freight-And he is offering in Shorthorns some of the beis some younger still; heifers ready to breed and younger, and some in calf. They are of the best
Scotch families and some of them from great milking families. They are in good condition and made herd in the land. They will be priced so that you can afford to buy, if you will tell me what you
want. Our business has been established 79 years, and still it irowis. There is areasn.
ROBERT MILLER, Stoulville, Ont

## Canada's Grand Champion Shorthorns of 1914-1915

are headed by the great "Gainford Marquis" Imp. Write your wants.
J. A. WATT,
ELORA. ONT.,

Scotch Shorthorns, Yorkshires, and Oxford Downs Our Shorthorns are of the most noted Scotch families and the Scotch (imp). bulls, Joy of Morning (imp)
$=32070=$, Benachie (imp). $=69954=$, and Royal Bruce (imp.) $=80283=$ have been used in succession $=32070=$, Benachie (imple age and heifers for sale. Also sheep and swine.
Geo. D. Fletcher, Erin, R. R.
$\begin{aligned} & \text { Two choice bulls of breeding } \\ & \text { Erin Station, C. P. R. L.-D. Phone }\end{aligned}$
OAKLANDSHORTHORNS foll

SPRING VALLEY SHORTHORNS
 Soruce Glen Shorthorns, when in wan on shorborne vila out

 GLENGOW SHORTHORNS AND COTSWOLDS


Imported Shorthorns


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Cider Apples Wanted
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BELLEVILLE CIDER a VINEGAR COMPANY Hamilton Ontario.

LIVINGSTON BRAND The purest and beat
OIL CAKE MEAL THE DOMINION LINSEED OIL CO., Ltd,

## Glenfoyle Shorthorns

 Large selections in females, all ages, bred from the best dual-purpose families. One extra choice fifteen-months briced wellyounger ones coming on. Price worth the money.
Stewart M. Graham, Lindsay, Ont Northlynd R.O.P. Shorthorne and Jerseys Present oficring: One Shorthorn buil old enought for grandam in six. yearly tests made an average of
over $8,50 \mathrm{Ibs}$. . illk, testing over $4 \%$ in an average
of 320 days. ©. A. Jachson, Downsview, Ont. Burnfoot Stock Farm-Breeders of dual-purpose Shorthorns with a splendid confor
mation for beef. Visitors welcome
S. A. MOORE, Prop, Caledonia, Ont. Shorthorns and Swine. Have some choice and heifers of show material, some with calves at ANDREW GROFF R.R. NO 1, ELORA ONT Maple Leaf Shorthorns and Shropshires. Now ofrering some choice heifer calves, aso two Show Shropshires some good ram and ewe lambs ; thear-
ling ewes by Nock 16 (Imp.), this ram also for sale, one of the best show and breeding rams in Ontario,
John Balker, R.R. No. 1, Hampton, Ontarlo. Shorthorns $\begin{gathered}\text { Males, females, one good } \\ \text { red bull } 16 \text { months, five }\end{gathered}$ younger, three fresh cows, calves by side, heiters. Thomas Graham, Port Perry, R.R. 3, Ont, Shorthorns - "Pail Fillers"- Our Shortor big milk production. If you want a stock buil
bred that way we have several; also Clyde lion rising 3 , won 2 nd at at Gueralph also Clyde. the stal day in a
big class. P. Christie \& Son, Mancheoter, Ont

Questions and Answers.
Veterinary.
Chronic Navicular Disease.
Have a horse that became lame last fall, in front foot, and foot got smaller than other one .We turned him into a box stall and bistered the foot around
coronet. The foot coronet. The foot got larger and he
was all right again before spring but got lame again in summer. We turned him on grass and blistered again. He is working now but starts off lame but lameness leaves after going a shor distance, but cannot trot much. would it it stop lameness? same after nerve is taken ay go on the before? ly suffering from Your horse is evident ly suffering from chronic navicula can be done for such a case. Nervin a horse will usually cure the lamenes and will not interfere with the growth an operation hoof and yet it is no it removes all sensation, and a simple puncture might form pus and develo would be noticed by the owner. a rule neurotomy or nerving is owner intends to dispose where the shortly, and lt domese of his horse the chances with him going wrong later on.
es on Horse
10 years old. Last Spring horse about and on inside of hock. These get scabby to trouble him get very bad nor seemed Have been using zinc ointment.) The hock puffed a little, so I blistered about sores are still there did good, but the much, a good deal on pasture and is well and hearty. Have not fed any oats lately not even when working him Have been giving him sulphate once a day in bran. It is hard to get a veterinarian up here. Trust you ca tell me a remedy as I want to get hin
right. He has had a little scratche since last fall. Have heard of l to use? How much saltpet
give a heavy horse weekly?

## Cotton-Seed Meal

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

## Bull calves from 10 months down

 Could spare 10 cows or heierers SEGis pontiac duplicate. R. M. HoltBY, Port Perry. Ont. Walnut Grove Holsteins





 HOLSTEIN BULLS

[^2]predisposition to this trouble in in cases it is most difficult to overcome Get one dram of bichloride of mercury, and mix with a pint of water and apply easily digested food day. Feed on soft regular daily exercise. Keep the he get Chean, but do not wash very often using strong soap suds to which about 10 per cent of lye has been added. A horse would be about a heaping ordinary

Miscellaneous.
Hired Man.
for was hired by J. W. in April at $\$ 240$ been changed $\$ 40$. Now, as my brother my duty to go also. France I feel it is been here, if I enlist? Ans.-Yes

Line Fence Father deeded a farm to his son 22 years. His neighbor agreed with him taking back half with only one creek, half with three creeks crossing front neighbor sold his farm and the The
purchaser wants the father and son repair two creek crossings, which
would mean about-two-thirds of the fence. Can he change the old
G. H.
Ans.-Not likely, particularly if there


King Segis Pontiac Paul 15940

Also Berkshire
Yorkshire Swine
Larkin Farms
Queenstor
Ontario

## HOLSTEIN CATTLE

35 lbs. butter a week. Cows that will give 1000 blse., mims a davagage are what we milk a day and 119 and
to breed. At present we have more of them than any other herd in Canada. We
can supply foundation stock of this supply foundation stock of this any other herd in Canad
breeding. Visitors
D. C., FLATT \& SON, R. R. 2,.. HAMILTON, ONI. For Sale---Sons of King Segis Walker A. A. FAREWELL

Evergreen Stock Farm Registered Holsteins. The kind that OSHAWA, ONTARIO choice young bull, eight months old, we have one that is strictly a y yearling heifers, or if you wart
white as


## FAIRVIEW HOLSTEINS

## 

 DUMFRIES FARM HOLSTETM Ssse9, ont Nor



HOSPITAL FOR INSANE, Hamilton, Ont.

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Dark Honey Crop Report. The Crop Report, Committee of the Ontario Beekeepers Association met on Friday, Sept. 8, to consiaer the crop of dark honey. It was found hat from 5.091 colonies, being an average of 18 lbs . per colony. This is about the same as last year's average, but owing to high prices prevailing in all similar lines, the committee advises members to ask $81 / 2$ to 9 cents per 1 b .
wholesale, depending on the size of the wholesale, , apendage and the quantity sold in one package and the quantity soly should
order. No buckwheat honey should be retailed for less than 10 cents per lb . In issuing this report a year ago, the statement was made that the local demand for white honey was exceedingly good. The situation this year is, if anything, better than a year ago, and
the very large crop of white honey the very large crop or white honey is moving out read.ly. Many of the members
prices as good as, if not better, than prices as gooded
those recommended by the committee. When it is remembered that nearly a year must go around before another crop is harvested, and weather conditions have not been the best for next year's clover, beekeepers need have no worry about selling their honey at good prices. secure a certain amount of cheap honey secure a certain amount of cheap hioney.
It is always th.s way, and while the beekeepers who sold cheap are losers, it is good for the honey trade that dealers are able to make an extra good profit on some of the honey they handle. The secretary frequently has enquiries for names of beekeepers having honey for sale, and while responsibility is not
assumed, he is willing to put dealer assumed, he is willing to put dealer
and member in communication if so and member in communication if
requested by any member.

## Gossip.

Leamington Breeding Farm. One of the most extensive breeders of pure-bred stock in Western Ontario is Cectil Stobbs of Leamington. Jersey Jatrey, Porned Dorset sheep. Duroc swine, being the lines bred on this noted farm. This year Mr. Stobbs made his advent as an exhibitor at Toronto and with his Dorsets won first on the open flock and championship for the best In the swine department he also won his share proving that the also won his flocks and herds are up to the standard required to win at the worlds greatest, annual show. Parties requiring breeding stock of any of the above mentioned breeds will be consulting their own interests by corresponding with Mr.

Chester Whites and Dorsets at Sunnyside.
Something particularly nice and exceptionally well-bred in Chester White Swine and Horned Dorset sheep is just \& Son at their Sunnyside Farm at Glan worth, Ont. The Chester Whites have been bred from Toronto, London and Guelph winners and champions for many years, and naturally are up to the highest standard reached by the breed. Of these for sale are both sexes of any desired age. The Horned Dorsets have an equally enviable record as winners and champions at the above mentioned
shows, and this year have again won many leading honors including first on Canadian-bred flock, and second on open flock. This year's lambs are by the Toronto and London champion of last year and out of winners, so that breeders wanting the best in Chester Whites and Dorsets will find something Sunnyside herds and flocks.
A Big Demonstration. Demonstration will be held in Tractor with the Ontario Ploughmen's Association annual plowing match on the farm of R. J. Fleming, on the Kingston road, two miles West of Whitby, November 1 2 and 3. This will give farmers an
opportunity of seeing a large number opportunity of seeing a large number
of tractors in operation and all those of tractors in operation and all those who conveniently can should plan to
attend. The Plowing Match itself is attend. The Plowing Match itself is
well worth while and at the present
time when so many are titerested in time when so many are interested in
tiactors a large crowd should be in at-

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THE old, reliable. Ford Chassis-Stream line effect-crown fenders-tapered hood-new reditare with incrased dovining untace:

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GLADDEN HILL AYRSHIRES
Herd headed by Fairview Milkman. Some choice bull calves for sale, from dams with good recorde, laurie gros. Asincourt, Ontario
Glenhurst Ayrshires For 50 years I have been breding the great
 write me.
James Benning, Williamstown, Ont.
young Brampton Jerseys BuLLs ror the next fortnight we are maling a apecial offering on young bulls, bred from the highest proo
ducing families ever introduced into canada. Brampton Jersees and thelr descendants hold all J Jersey R.O.P. records save one. Females all ages, also for sale. B. H. BULL a SON, Brampton, Ont WOODVIEW FARM Ganada J E R E Y S $\begin{aligned} & \text { Present Offering--Some high-clas bull calves ready for service, including grand } \\ & \text { champion bull at last Western Fair and his full brother ; also cows and heifers, }\end{aligned}$ LONDON, ONTARIO State distinctly what is wanted if writing.

## H. ARKELL <br> W. J. ARKELL <br> F. S. ARKELL

Summer Hill Stock Farm

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in Canada. Look up our show record, it will give you an idea of the PETER ARKELL \& SONS, Proprietors, Teeswater, Ont. Customers, beware of imitations of this advertisement.

Oxford and Hampshire Down Sheep Farnham Farm The oldest established
Having quit the show ring we hold nothing back Our present offering is a number of superior year-
ling and two-shear rams for flock headers, a carload of year ling and two-shear rams for flock headers, a carload ram and ewe lambs of 19116. ALL REGISTERED
HENRY ARKELL
 description on application. Shade Farm. Brooklin. Ont. Brooklin, G.T.R., C.N.R., Myrtle, C.P.R BLAIRGOWRIE SHROPSHIRES AND SHORTHORNS


John miller,


Myrtle, Sta.,.C.P.R.R. Act. G.T.R
When Writing Please Mention this Paper


THRESHERMEN, READ THIS I The Improved Veteran Endless Canvas Drive Belta will give you better service than any
other You wait the beit. Order now,
Shld Sold only by
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WINDSOR SUPPLY, CO., Windeor, Ont Headquartera for Suction Hope and all othee Engineers' Bargaina:"

## Ottawa Demands

Milk up to Standard
Other Citiee will Fall in Line. You can easily meet this blood in your herd. Now is the time to buy a pure-bred Ayrtime to buy a pure-bred AyrWe'll gladly send you information.
W.F.Stephen,Secy.,Huntingdon,Que.
n. Ayrihire Breedera' Assoc.

Glencairn Ayrshires $\frac{\text { Herd established }}{40}$ y eara. ducing ability from 8,600 to 11,002 year. If that all ages and young bull for sale. Thos. J.
UeCormick. Rockton Ont..Copetown, Sta.G.t.R.

JERSEY BULLS. For sale-Knoolwood's Ralefgh
sire Fairy Glen's Raleigh (imp.), 22 daughter

 dam Mabel' Porst Snowd dop: first as calf, 1914. irrst
Junior Champion, 1915, 2nd 1916 Toronto, Milked 38ibs. dave ber cent. .ilik forst calf. Ira Nichote,
Burgesovilu, Ont. R.R. No. 2 .

Tower Farm Oxfords Champion Oxford fock of Canada. Choice Oxforde
of all ages for gale. Prices seasonable. E. Barbour \& Sons R.R. 2, Hilleburg, Ont.

In a bulletin issued the middle of September, the Census and Statistics Office publishes the firstIor preliminary estimate of the yield of the principal grain crops of Canada in 1916 (wheat, rye, barley, oats and flaxseed.) as well all field crops at the end of August. Correspondents" report that grain crop in Manitoba and Saskatchewan, which were highly promising at the end of July were so seriously affected by rust and hot winds during August, that large areas sown will either fail to produce any crop at all, or have been cut green,
whilst the yield of grain from producing areas will be very low both in quality and grade. Whilst the whole of Manitoba and Saskatchewan is badly affected by rust, the conditions are distinctly worse
in the southern than they are in the northern parts of these provinces. In Alberta, rust though present to a certain extent, has not proved destructive, and the grain crops continued promising. Frosts, however, of August 11 and again late in the month did considerable damage. In Ontario and Quebec grain yields
have been greatly reduced by drought in August; but in the Maritime provinces and in British Columbia the condition of the grain crops continued to be quite favorable.
It is estimated from the reports of
correspondents that of the areas sown correspondents that of the areas sown
about 13.7 per cent. of spring wheat about 13.7 per cent. of spring wheat,
8 per cent. of oats, 5 per cent. of barley, and 1.8 per cent. of flax will fail to produce any crop of grain. Of the areas sown, however, 3 per cent. of wheat, 5
cent. of.oats and a small area of were cut for green feed or turned into hay. These percentages represent de-
ductions from the areas sown of 1432 den acres of spring wheat, 849,000 acres oats and 69,100 acres of barley. It yield of wheat this year will that the total yield of wheat this year will be $168,811,000$ 300 acres as compared area of 10,085 ,bushels from 12,986400 with $376,303,600$ and $161,280,000$ bushels from $10,293,900$ acres in 1914. The average yield per acre is $163 / 4$ bushels as compared with
29 bushels last year and 29 bushels last year and 15.67 bushels
in 1914 . The in 1914. The estimate for oats is a total yield of $341,602,000$ bushels from
$9,795,000$ acres, as against 520,000 $9,795,000$ acres, as against $520,103,000$ bushels from $11,365,000$ acres in 1915,
and $313,078,000$ bushels from $10,061,500$ acres in 1914, the average per acre being in 1915 and 31.12 bushels 45.76 bushels rye, the estimate is $1,990,800$ bushels from 101,420 acres, as compared with $2,394,100$ bushels from 112,300 acres in 1915 and
$2,016,800$ bushels 2,016,800 bushels from 111,280 acres in 1914, the yields per acre being 19.63
bushels in 1916, 21.32 bushels in 1915 and 18.12 hushels in 1914. Barley acres, as against from 1,509,350 acres in 1915 and 36,201 ,000 bushels. from in $1,495,600$ and 36,201 , 1914, the yield per acre being 25.89, 35.33 and 24.21 bushels respectively,
The flaxseed estimate is for bushels from 710,000 acres, an average of 12.15 bushels per acre. For the estimated yields are, for wheat the total
bushels, $145,466,000$ bushels, for oats $243,114,000$ bushels,
for barley $24,502,000$ bushels, 601,000 bushels and for flax $8,572,000$ bushels. The average yields per acre of wheat are: In Manitoba $101 / 2$, Sask-
atchewan 16, and Alberta 2411 bushels per acre.
At the end of August, the of field crops, expressed in percentage of a standard representing a full crop,
was as follows: Spring wheat 69 , was as follows: Spring wheat 69 , oats
74 , barley 73 , rye 80 peas 69 , corn for husking 67, potatoes 72 , alfalfa
94 , corn for fodder 77 , pasture 86 , hay and clover 103. All other crops ranged condition of spring whe Manitoba the down to 37 pcr cent. as against marked cent. and in Saskatchewan to 61 per cent. as against 94 per cent. at the end
of July. The percentage of 37 for Manitoba on August 31 is the lowest on
record since the present crop reporting
system began in 1908


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## $100 \%$ Healthy This great Coal Tar Disinfectant is SAFE, SURE and has appeared.

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PREVENTS DISEASE. Used
Dominion Experimental Farm at
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Zenoleum. $\$ 1.50$ gal. makes. 80 gale dien ZENNER DISINFECTANT CO. $\$ 1.50$ gal. makes 80 gals. dip. 8amp

## Yorkshires and Berkshires

Also 1 Berkshire hog $21 / 2$ sate several orkshire hogs and sows 7 months and one long. All hogs guaranteed to satisfy. prize-winner. He is the improved type,
W. G. BAILEY, Prop.

Oak Park Stock Farm,
$\qquad$ R.R. No. 4, Paris, Ont

New castle $\begin{gathered}\text { Herd of Tamworths and Shorthorns Stock boar and } 2 \text { aged sows for filt } \\ \text { fit for any show ring; also boars ready tor service, and a number of sows brad }\end{gathered}$ imported and champpionship farrow; others ready to breed, both sexes ready to wean; all descendanity great dual-purpose cows: several extra A food chows, with bull calves, from 2 weeks up to a year old,
Broadlands, my present stock bull. Show stock a wecial COLWILL,R.M.D.No. 1, Newcastle, 0 In 1915 we made LANE BERKSHIRES AND TAMWORYH
 S. DOLSON \& SON,

DUROC JERSEY SWINE, JERSEY CATTL
back. In Jerseys we have either sex of any desired age, bred from winners and champions for genentliet
MAC. CAMPBELL \& SONS, ELMHURST LARGE ENGLISH BERKSHIRES
 can supply select bortation of sows, together with the stock boar, Suddon Torredel
M. VAND stock, all ages. Satisfaction and safe delivery guaranted

Cloverdale Berkshires and Shropshires

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 newly reduced the eases, Heaters, Boiles, etco with plain, fxied pine prices,



[^0]:    and down to a homely subject.

[^1]:    If a cake sticks to Cakes.

[^2]:    
    
    

