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In 1912 it was unknown. In 1913 we started our campaign and sold 230 tons. The consumption has gone on increasing until, in 1917, the sales were 6,242 tons. This year they will probably each 10,000 tons. It was hard work introducing our goods. Oftentimes to get going in a district we picked out a progressive armer and gave him a ton for nothing. With very few exceptions this proved the best of advertising. In two cases, for in stance, the experimental tons we gave away in 1913 resulted in sales during the past season of 160 tons and 181 tons
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# The Farmer's Advocate and 

## EDITORIAL.

Turn the sod down now for the fall wheat.

Mites in the hen-house mean fewer eggs. A tortured hen will not lay.

A pasture without water is a poor place for live stock. Grass is not the only consideration.

Do not allow whe late blight to reduce the potato crop. Spray with Bordeaux mixture.

Farmers should organize, but any movement savoring of clique rule or partizanship is doomed in the beginning.

The United States celebrated the fourth of July in a very practical and significant manner when they let 90 new ships slide down the ways into the water.

We should have a registration of the dogs in this country and dispose of the useless ones in some humane manner. They consume good food and too frequently destroy good sheep.

The apple crop in the Annapolis Valley, N.S., may not amount to over 400,000 barrels, which is not onequarter the production which the growers there could put out in a normal year.

The small fly which causes grub in the head of sheep is common throughout the warm weather this month. Provide a cool shelter for the flock to which they may retire during the heat of the day, and keep their nostrils smeared with tar.

Agriculture in England and Scotland has suffered another draft of men, and the prospect for harvesting the large crops now promised are none too bright. Britain will take chances with the food supply before she will with the enemy on the West front

In spite of the reluctance of the Government to issue war-saving stamps the practice would be a good one. The small investor could purchase them when a War-Saving Certificate would be beyond his means. Thrift means more than the saving of dollars; we must squeeze the penny harder and put it also where it will help us to win.

The severe winter of 1917-18 dealt the fruit industry a hard blow, and the results are only now becoming fully apparent. Regrettable, indeed, is the havoc wrought in the old Fameuse orchards of Eastern Ontario and Quebec, in which those districts took no small amount of pride. Consumers will not appreciate the extent of the loss until they try to purchase a barrel of "snows,"

At a recent convention of bankers in the United States, says a Canada Food Board circular, the question was asked, "How many of you grew up on a farm?" The count showed 90 per cent. Everyone present agreed to leave his bank and work on the farm for
periods from ten days to two weeks. No doubt registration will show that a large percentage of our Canadian bankers were farm boys at one time who still have a pair of overalls and a smock hid away in the attic of their ancestral home. Now is a good time for them to renew old acquaintances.

## The Scrub Bull Still at Large.

While travelling through one of the best dairy districts in Ontario recently, we observed a scrub bull running in the pasture with a herd of milk cows which, according to their color markings and conformation were well bred, if not pure-bred. The bull was apparently a mixture of several breeds which blended so well that one could discern no dominant color or breed characteristic. The fact that it was a bull was the only point concerning this animal that did not permit of doubt. We know full well that too large a percentage of the sires used are grades and scrubs, but to have the truth brought home under such circumstances was discouraging in the extreme. Last spring at the sales, pure-bred bulls of fair individuality and with good backing in regard to production sold, in some cases, little above beef prices, so no dairyman can rightfully complain that a pure-bred sire is beyond his means. The satisfaction derived from dairying comes not only from the size of the monthly milk and cream cheque, but quite as much through the appearance of the herd and the improvement which the young stuff show over their sires and dams. Where there is no growth or no improvement the business is stagnant, the interest wanes, and sooner or later an auction sale marks the close of an unsuccessful career on the farm. The use of a pure-bred sire is one of the cheapest and speediest ways of bringing about improvement in the herd and larger milk cheques. If the size of the herd does not permit the use of a good bull, the owner should cooperate with a neighbor and purchase one that is substantially better in quality and breeding than the females with which he is to be mated.

## Keep Photographic Records of the Live Stock.

## Over one hundred and fifty years ago Robert Bake-

 well, of Dishley Grange, England, began a systematic improvement of horses, cattle and sheep. He was really the pioneer breeder of England, and to him is much credit due for the remarkable excellence now found in the live stock of the British Isles. Others took up the work where he laid it down and adapted his methods to the tasks they had in hand. Bakewell kept more than written records of his work and results achieved. He was neither artist nor photographer, but he assembled a collection of bones and meat in pickle to show the improvement made in animals of his own breeding. Then came the painter, who too often idealized the subject he sketched, but who, nevertheless, contributed greatly to the annals of live-stock history. Invention has in modern times made it possible, through the use of the camera, for the average breeder to photograph his own live stock and keep a complete record of individuality and character along with his memoranda concerning production, color markings, etc., which may be interesting and valuable in later years. Any progressive breeder is interested in the history and development of his herds and flocks, and there is no better way of keeping in mind the characteristics of the sires used, the females which made up the breeding list, and the progeny of both, than with small photographs or snapshots. Still more interesting is a collection of these likenesses, showing several generations of the same breeding, and making it possible to compare animals still in the herd with their progenitors which have been disposed of through sales or on account of age or sickness. A camera in the hands of some junior member of the family can be used to advantage in this regard, and after a few years the collection of prints will be cherished almost as much as the family album.Many experiments in breeding at public institutions would have been made more valuable if photography had been practiced in connection with the record-keeping. Happily experimenters are now awake to the importance
of this line of work and photographic records are being kept.

Live-stock photography is more than a hobby or fad. It is now a business proposition, the importance of which many breeders have grasped, and these have converted the practice into a means of conveying information and a description of what they have for sale. Many good breeders are poor salesmen and cannot reduce the enquiries received to a satisfactory percentage of actual transactions. The weakness often lies in their inaptitude for letter-writing, and their inability to give an adequate description of the animal in question. A concise and definite statement concerning production, where such is involved, with the desired information with regard to the breeding, will usually satisfy the enquirer when a good photograph or snapshot is enclosed. Buyers usually concern themselves about the individuality of anything they purchase, and a small print will often make a mail-order sale when otherwise the business would be lost.

## Fitting For the Fall Fairs.

The act of loading show animals with a surplus of fat is hard to justify at any time, and under present conditions exhibitors should be content to bring their entries out in more moderate fleshing than is customary at the large exhibitions. Many breeders will not show because the competition they, are obliged to meet forces them to fit extensively and perhaps injure the breeding qualities of some of their best stuff. Nothing is more harmful to the impression left with an onlooker than to see a breed represented by poorly-fitted, untrained animals just brought up from the bush. This extreme, too, should be avoided. Thrifty, well-conditioned animals thoroughly broken to the halter and in good bloom should be given the consideration they deserve by the judge. Surfeiting with fat does not bring out breed characteristics, neither does it reveal the actual conformation of the entry. On the other hand, a bad conformation is often concealed with flesh and camouflaged with deftly-combed hair. There should be a compromise somewhere between the way live stock is shown at the township fair and the condition to which they are brought before they have a chance in a fat-stock show. When this is accomplished breeders can work their show cows and show their work cows.

## Keep the Corn Field Clean.

A general survey of the country reveals fewer dirty and grassy corn fields than existed last year at this titne, but there is still plenty of work for the hand hoe and the cultivator. The season of 1917 was particularly favorable to weeds and detrimental to corn, so the task of keeping a field clean was more difficult than usual. This has not been an especially good corn year so far but the stand is fairly uniform, and with an even break in luck in regard to weather conditions we should, in Ontario, still have a satisfactory crop of silage quality. During the latter part of June and early in the present month the cool weather retarded the growth of lateplanted corn and allowed the weeds in a good many fields to gain ground. Early corn did not suffer so much, but throughout the country there are many fields that require the immediate attention of a man or men with a sharp hoe. In Oxford County, Ontario, not long since, we noticed a woman and a boy doing their bit in a grassy corn field, but the task appeared too big for them. Corn, more than any other farm crop, requires a great deal of cultivation, and if weeds are allowed to grow up in it and go to seed, the hoed crop, as a part of the rotation, does not function as it should. Corn is grown primarily for fodder, but in a four-year rotation it affords practically the only opportunity to rid the land of weeds. Some of the inexperienced help which

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may be available might be used to advantage in just such circumstances as we have mentioned. So long as this class of help are instructed not to cut too close to the corn plants, especially with a sharp hoe, they can do a good service in cleaning a field of corn and making it suitable for future cropping. This appears like one place where inexperienced help could be utilized. In

the meantime keep the cultivator going.

## Co-operation Amongst Experimenters.

It has long been plain that too little co-operation exists between agricultural experimenters in this country, and that while working with the same ends in view they are not able to pull together. This apparently is not characteristic of Canadian institutions only for
Scotland Yet, in his letter published elsewhere in this issue, complains of similar conditions in Britain, where
he says: "Unhappily all such research work in Scotland has hitherto been crippled by a lack of funds, and another unhappy feature is a disposition to petty jealousy on the part of those engaged in physiological research. In place of an honorable striving to see who can do most
to minimize loss and enhance the value of live stock through the discovery of the causes of and the remedy for such plagues there is a disposition to act the censor
on each other. Such manifestations leave on each other. Such manifestation
pleasant impression on the lay mind."

This lack of unity amongst the authorities in this country leads often to confusion through the publication of conflicting statements and advice. There should be a co-ordinating department where all the information
could be assembled and prepared for public consumption. And there should be harmony amongst those to whom we look for guidance in things agricultural.

## A. b, кLugr, M.

In our last article we gave a general sketch of the work in marine biology which is being done by the Biological Board of Canada, and gave a description of
the manner in which samples of water were obtained from various depths. Now when these samples have from various depths. Now when these samples have been secured cthey are placed in bottles, hermeticaly
sealed and are later examined chemically to determine the sealed and are later examined chemically to determine the
amount of salt present. This is a very important thing to ascertain, as many species are regulated in their distribution chiefly by the salinity of the water. Attached to the deep sea water bottle;, with whicit the samples of water are obtained, is a minimum thermometer, in which the thread of mercury is broken when the thermometer is reversed by the reversing of the water-bottle. Thus the temperature at the bottom, or at any intermediate point, can be ascertained. At the same tim
taken.
This work of securing data of the salinity and temperature of the water is done at certain definite stations, stations different kinds of gear are used to obtain specimens of all the kinds of animals and plants which occur at that place. The kinds of gear employed are the plankton net, dredge, shrimp trawl, crow-foot dredge, ottertrawl, line-trawl, and seine.


Plankton nets are conical nets made of very fine bolting-cloth, with a bottle tied into the small end. in different ways so that they may tow at different depths. As the plankton net is towed through the into it, and when the net is hauled in these are all washed into the bottle. These extremely small forms of life, the great majority of them so minute that they are
imperceptible to the naked eye, are very important imperceptible to the naked eye, are very important economically. Many of them are the food of commercial
fishes and others constitute the food of yarious organisms Gishes and others constitute the food of various organisms
which in turn are the food of fishes. Thus the distribution of these minute organisms, whicharecollectively directly plankton, very frequently determines either commercial fishes A dredge consist
from it and with iron arms to which $\&$ rope is attached at the point at which they come together as shown ific our figure. The dredge is dragged slowly over the bottom into the net all the forms of life which are lying gathers attached to, the bottom. In this way a great variety of animals, unobtainable in any other way are brought
to the surface,-Starfishes, Sea-urchins, Brittle-stars, to the surface,-Starfishes, Sea-urchins, Brittle-stars,
deep-water Crabs, Sea-anemones, Sand-dollars, Sea
Cucumbers, Cucumbers, deep-water species of shell-fish and hosts of other forms.
which hang numerous chains series of iron hooks. These hooks gather up material
on the bottom. An otter-tra
very wide mouth. The mouth, cone-shaped net with a is dragged along the bottom, by wings with boards, known as otter-boards, fastened vertically. These
boards each have a line attached to boards each have a line attached to them, and these
lines are attached to the long line by which the trww lines are attached to the long line by which the trawl
is dragged. The result of this arrangement is that the boards. The result of to diverge as far as possible and thus keep the mouth of the trawl open. The otter-trawl bottom-feeding fish, and is used extensively in the
fisheries. fisheries.
The line-trawl consists of a long line to which short feet, these lighter lines each carrying a hook. One "shot" that is one long line, as a rule carries some three hundred hooks and three "shots" are joined to make the complete trawl, The hooks are baited and the trawl is coiled down
into a tub, and when it is to be set first a buoy is put out with a line from this to the trawl anchor, then the and buoy. The trawl is left out for about an hour, usually at slack water, that is the period at the turn of the tide when it is neither flowing norior atbing, in turn of the tide
there is much of a run of tide, and it is there fish removed and the trawl coiled down into the tub A seine is such a widely known piece of gear that no description of it is necessary
The afore-mentioned are
and the methods which are used in collecting pparatus but the collection of material is not all the work by any means. It is rather the beginning of the work, for when
the material has been obtained then comes the determination, classification, recording, microscopic study
of scales to determine ages, study and finally the bringing together of facts and the inter-
pretation of facts.

## THE HORSE.

## Joint-Ill, Navel-Ill or Septic Arthritis.

Many theories have been advanced re the cause and nature of navel or joint-ill in foals. Some claim that it is simply another name for what is commonly called "leaking navel." Those who have had experience pathological conditions. In some cases they co-exist but in most cases either condition is noticed without being accompanied by the other; hence there is not necessarily a connection, Some claim that "joint-ill" is a disease of weakly foals; others that it affects only
foals that receive too much milk; others that it is caused foals that receive too much milk; others that it is caused
by the nature of the dam's milk; others that it is due by the nature of the dam's milk; others that it is due
to exposure to cold or dampness. Some claim that it is congenital, being contracted during foetal that it is congenital, being contracted during foetal
life. All these theories have been proved false by the light of modern veterinary science.
That the disease is due to a specific germ or virus that gains entrance to the blood has been proved beyond reawonable doubt. The germ gains entrance through a It has an affinity for the joints alws, the navel opening: plies very rapidly, causing severe irritation, heat, swelling, and often suppuration-hence the name "joint-ili." While scientists now generally admit that the disease is due to a germ, some claim that it enters the circulation during foetal life, hence the disease is con-
genital. This view is not supported by evidence and is genital. This

The germ exists in the soil, in dust, in stable floors, and doubtless, in some cases, on the hair of pregnant marest. The last fact accounts for the occasional very early symptoms of the disease that are sometimes no ticed in foals, the germ having entered the circulation during birth. The trouble is much more frequently seen in foals that are born in the stable than in those that are born in a pasture field. In some seasons the disease is much more prevalent than in others; and
more frequently seen in some localities than in others. Owing to these facts we must admit that certain climatic nd certain geographical conditions favor the presence of the gerim, but just what these conditions are has not een definitely determined

Symptoms.-The symptoms may become apparent oon after the infection enters the system. From a few ours to a few days, and in rare cases a few weeks after birth, the foal is noticed to be dull, lies a great deal, and manifests lameness or stiffness in one or more limbs. in examination usually reveals a swelling, heat and enderness of one or more joints, often in the hock or knees, but it may be the stiffe, hip, elbow, shoulder fellock or pastern. Any joint or joints may be affected he trouble is often trought to have been caused by the dam treading upon the foal, or by injury in other ways. The symptoms inceres in size and soreness, the patient becomes weaker less ble to move, and lies most of the time. If helped to his feet he goes lame and sore, but in some cases will nurse fairly well, but soon lies down again. As the ymptoms increase in intensity the general debility also increases, and the desire for or the ability to take nourishment diminishes. The joint or joints involved become puffy, and if they burst or are lanced a muddy ortor iquid escapes. in many cases the articula artiages of the joint become destroyed. In these路 ther. When this stage has been reached it is a humane act to destroy the patient as though it is posible in some cases to preserve life by careful nursing and attention, the animal will always be a cripple.
Curative Treatment is often effective when given early. The use of serums and anti-toxins especially only by a veterinarian, has been reasonably successful both as a preventive and cure, hence it is wise for a after the first symptoms are noticed. Even amateur treatment may occasionally be successful. It consists in bathing the joints long and often with hot wate and ater bahing rubing well with a camphorated drams alcohol to make a pint. The foal should be given 5 to 10 grains (according to class and size) of iodide of potassium in a little of the dam's milk three times hour if not able to nurse without help. The mare should be well fed on milk-producing food, as bran rolled oats, good hay, raw roots or grass if procurable and shouid be given 1 to $11 / 2$ drams iodide of pōtasssium arresting the ravages of the germ and destroying those present Wavages or the germ and destroying those abscesses are formed they should be lanced and cavities flushed out well three times daily with a 5 per-cent. solution of carbolic acid. When the articular cartilages have been destroyed and the bones can be heard or felt grating against each other, the patient should be dePreventive Treatment.-If we admit the theory ad vanced as to the cause of the disease it can plainly be seen the germ into the system. This can be done (where the germ exists) only by cleanliness and antiseptic measures. stable, and the stall in which the prospective foal is to
be born, should be thoroughly and regularly cleaned and it is good practice to scatter slaked lime on the floor each morning belore providing fresh beading. it is good practice to give the stall a thorough coat of hot whitewash be objectionable, give it a thorough scrubbing with hot water containing 5 per cent. of the acid. It is tail good practice of the mare occasionally with an antiseptic and germicide, as a 5 -per-cent. solution of one of the coal-tar antiseptics or carbolic acid. When the mare is to foal on grass, of course, all these precautions cannot be taken, but there is little danger of the germ existing on grass, but it may be found in sand or clay devoid of grass. The most essential preventive measures that can be observed in all cases is local attention to the navel as soon as possible after birth, and several times daily afterwards untilt dries up and is thoroughly healed. The breeder should have on hand a supply of a strong antiseptic and germicide when his mare is about acid or one of the coal-tar antiseptics, tincture of iodine, or a solution of corrosive sublimate 30 to 40 rrains to a pint of water. Whatever is used should be applied as soon as possible after birth and every few hours until the navel opening has healed.

## Percherons Come to Canada.

The Secretary of the Percheron Society of Americ Wayne Dinsmore, sends us the following information States into Canada.
"During the last 19 months the Percheron breeders of the United States have sold more than 1,000 Percherons to Canadian buyers; 611 of these were purchased buyers. Thiast 7 months by 91 different Canadian 4 in British Columbia; 12 in Manitoba; 1 in New Bruns-


## A Hot Weather Suggestion.

wick; 7 in Ontario; and 35 in Saskatchewan. Two hundred and thirty-nine out of the 611 sold this past season were mares. It is believed that this constitutes a stock to Canada. These very heavy erportations are significant of the growing popularity of Percherons in all parts of the Dominion, and of Canadians' firm belief in the prosperity in store for breeders of good draft horses." ecretary also writes that Percherons in America are reared by average farmers who use the mares in
regular farm work. Most of the colts recorded are registered by men. who raise only one or two foals per year. This fact is revealed in the registrations which amounted to 10,508 in the last fiscal year, and these were made by 5,198 separate breeders.

## What the Horse Would Say in July

 If a horse could talk he would have many things to say when summer comes.He would tell his driver that he feels the heat on very warm

He would say,- "Give me a little water many times day, when the heat is intense, but not much at a time if I an warm; if you want me to keep well don't water me too soon after I have eaten.
.He would say, -"When the sun is hot and Iam working let me breathe once in a while in the shade of some house or tree, if you have to leave me on the street leave me in the shade if possible. Anything upon my head,
between my ears, to lreep off the sun is bad for me if the air cannot circulate freely underneath it
He would talk of slippery streets, and the sensations f falling on cruel city cobblestones-the pressure of
the load pushing him to the fall, the bruised knees ant wrenched joints, and the feel of the driver's lash,
and of ein the luzary or a het whezat work and of a fly blanket when standing still in fily season, and of the hoon to him of screens in the stable to keep out he insects that bite and sting.
He would plead for as cool
He would plead for as cool and comfortable a stable as possible in which to rest at night after a day's worl der the hot sun
in a narrow sugll neither tiving through a warm nigh is suffering for him and poor economy for the owner

He would say that turning the hose on him is a together too risky a thing to do unless you are looking or a sick horse. Spraying the legs and feet when he is too warm on a hot day he would find agreeable.
He would say, - Please sponge out my eyes and nose and dock when I come in tired and dusty at night, and also sponge me with clean cool water under the collar and saddle of the harness."-Our Dumb Animals.

## LIVE STOCK.

It will not be long before the fall exhibitions will be in full swing. Are you getting

It is a good plan to stable the calves and even the mature stock during the heat of the day when flies are most bothersome. A little attention along this line usually brings returns.

Even with grain at the present high price it may pay well to use it to supplement the pasture when it pensive to hold the flesh on the animals than to put it

A number of Shorthorn auction sales were held in Chicago the second last week in June, and 288 head changed hands at an average price of $\$ 1,290$. Kennedy Shorthorns averaged $\$ 1,121$, the top figure bein $\$ 2,600$,
which was paid for Beauty which was paid for Beauty Lassie, a five-year-old cow, Sixty-s

At the Carpenter \& Ross Shorthorn sale 122 head went under the hammer in less than five hours. Record 106 females 81,386 . The bulls averaging 82,800 , and bull calf Imp. Rodnet. Sep price was $\$ 20,000$ or the bull calf Imp. Rodney, Several head from this offering among which was the two-year-old bull Imp. Edgecote Broadhooks at $\$ 4,000$.

In response to representations made by the various gricultural and breed societies, the War Trade Depart. ment of England has intimated that it has decided to bandon the proposal of restricting the export of purebred stock to the average of the past three years. While is deemed advisable to place some restriction on the export of pedigreed stock, applications from exporters average exports, by an individual and to aut regard average exports, by an individual and to a particular In talking about the present price of pork, a Perti County farmer remarked that twenty-four years ago he teamed hogs 13 miles to market for $31 /$ cents a pound. There is a big difference between $31 / 4$ and 17 or 18 cents a pound, but we doubt if the higher price of this spring netted the feeder any more than the price of 24 years ago. At that time oats were 15 cents a bushel, and

Arinter ects out of a load of hogs cannot always be
judged by the price. The feed cost must be taken into
consideration.
In some localities there is considerable complaint about cattle having sore feet. This trouble may be brought on by broken hoofs, stone bruise, stenning on edge of a hard substance and breaking the flesh betwrough muddy places, or it may be due to infection. through muddy places, or it may be due to infection.
Treatment of some kind should promptly be applied. Treatment of some kind should promptly be applied.
Bathing with hot water, applying a poultice of hot Bathing with hot water, applying a poultice of hot
linseed meal and dressing the raw surface with one part carbolic acid to 30 parts sweet oil should give relief

## Compensation For Sheep Killed by

 Dogs.Although dogss are taxed in practically every comof Partriment, it has by no means stopped the destruction of sheep by canines. From different sections of the cuintry come reports, of numbers of valuable sheep being killed, or so worried by dogs running at large that the owner wes forced to kill them. This is a serious loas not only to the individual but to the country in this
time of shortaze of meat and wool. While the owner may time or shortage of meat and wool. While the owner may the owner of the dog; it does not entirely make up for
the loss A number of queries have come to this office the loss A number of queries have come to this office regarding the compensation which the owner of the sheep will receive, and also concerning how to go about to
secure same. An Act passed in March, 1918, reads secure same. An Act passed in March, 1918 , reads or worrying sheep is not known the municipality in which such sheep, were so killed, injured, territied or of the damage sustained, but no municipality shall be so liable unless application has been made for damages. as herein provided within three months after such sheep
have been so killed, injured, terrified or have been so killed, injured, terrified or worried. The
amount of damage sustained shall be determined in the following manner: The council of every local municipal ity shall appoint one or more competent persons to be known as sheep valuers. Within forty-eight hours after the discovery of any damage the owner of the sheep or
the clert of the municipality shall notify the sheep valuer who shall immediately make full investigations and determine the extent of the damage. The sheep valuer shall make his report in writing, giving in detail to the clerk of thjury and the amount of damage done, time forward a copy of such report to the owner of the sheep damaged. Where the owner of such sheep considers the award inadequate to cover the loss of same, he may appeal to the Minister of Agriculture who may name a competent arbitrator to make a further in shall be final, provided the appeal to the Minister shal be made within one' week after the award of the local valuer has been received, and shall be accompanied
by a deposit of $\$ 25$ which shall be forfeited if the awar by a deposit of $\$ 25$ which shall be forfeited if the award are appointed by the municipal council, or the clerk or the sheep valuers do not perform the duties provided the person who has sustained the damage shall have right of action against the municipal corporation for the amount of damage recoverable in any court of competent jurisdiction. The owner of any sheep killed on injured while running at large uponany highway or on unenclosed
land shall have no right to compensation from a municipal corporation." According to the wording of this Ant compensation shall be made to the full amount of the damage sustained, and the extent of the damage shall be determined by sheep valuers. It is not made very
clear as to whether or not the owner of sheep killed by dogs shall be compensated according to the value of the sheep for mutton or for breeding purposes. This is doubt. It is a well known fact that pedigree and certain qualities as to type and conformation eenhance the value of an animal for breeding purposes above that of an ordinary sheep which is being raised for meat
alone. The Act can well be interpreted to cover the value of the sheep for breeding purposes as it plainly It is believed that the the damage sustained." for so few sheep being kept in certain sections ons the Province. Farmers have had their flocks greatly the mated in a single night and this has so disheartened them that they preferred investing their money in other breeds of stock. Some would go so far as to destroy practically all the dogs in the country; however, this place on every farm. Not only does he guard the property locks and herds from the field to stable. True, a dog may damage the stock but this is the result of a dog breeding or poor training, or both combined. The wellikely to molest the flocks at night. It is the canine stock that usually or that is not used to mingling with tax on dogs will undoubtedly damage. The increased owner of the dog that destroys sheep is known hi the be obliged to pay the damages to the owner of the shaep away at night the owner would do well to prone to wander away at night the owner would do well to tie him up and property. It is better to guard the dog than to be

## Prolific Sows.

When newly weaned pigs find ready sale at nine and ten dollars apiece it is important that the sow kept hears of litters varying from fourteen un to twenty in number but these too frequently dwindle down to six or eight by weaning time. On the other hand there are sows which fail to produce more than a half dozer pigs twice a year, A dozen pigs make a profitable this number if properly rationed. There are soed feeders who are perfectly satisfied if they raise eight to ten in a litter and who prefer that number to a larger iiter,claiming that there is less likelihood of there being any -runts and the entire bunch is usually more thrifty than where a greater number are raised. Some breedera contend that the time of service influences the size of
the litter. For instance they claim that service early


## A Typey Hampshire Sow.

in the period of oestrum and then turning the sow in the pen or paddock with other pigs has in many inend of the period of oestrum and the sow lef near the for a few days has given large numbers of pigs. If the sow is commencing to flesh up at the time of service she is likely to be more prolific than if she is very thin in condition.

It stould be possible to select and breed a strain of sows for the production of large litters and a good
milk flow to feed the progeny, as it is to increase milk flow of a strain of cattle by selection and breedine With young pigs at present prices the prolific sow th feeds her litter properly is a valuable animal to have in the herd. Securing breeding stock from sows which are regular breeders and which produce and raise large
litters is advisable. The law of "like tends to produce litters is advisable. The law of "like tends to produce

Cost of Raising and Finishing Two-Year-Old Steers
That there is a good profit in raising and finishing beef cattue at the present prices is a foregone conclusion with many people, but there are few feeders who are in a position to give the exact gains, cost of gains and tunate that more do feeding materials. It is unfor be in a position to know the most profitable age at for the block. J. G. Rutherford, who is Superintendent

of Agriculture and Animal Industry of the Department pany, gives the following account of a bunch of steers the Alberta stock yards at $\$ 16.80$ per cwt. The through is to the effect that the thirty head of steers marketed at the above-mentioned price were of Shorthorn and
Hereford breeding, which were picked from a sixty-one calves which were got together the latter stock and others were bred by the Anjmal Industry Branch. As regards quality, there was no special The remaining thirty-one calves were quartered in bous

stalls in a warm, well-ventilated, comfortable barn,

and in May 1917, brought $113 / 2$ cents per pound. They made a daily gain of $1,81 \mathrm{lbs}$. The thirty steers which were marketed this year spent their first winter in an open shed on practically the same ration as those above mentioned, except that no alfalfa hay was fed and only and May. The daily rain per head was 1.08 of April cost of 12.1 cents per pound. The calves in the barn rounded out, laid on flesh, accumulated fat, and came out in the spring with an attractive finish and bloom. Those in the shed grew and developed size, and although as thrifty, did, not compare with the others in point of flesh or fitish, thus showing the importance of warmth and comfort in the finishing of yearling steers. On the other hand, wintering young stuff in open sheds tends
to develop strength, constitution and size, which desirable as a foundation for the subseguent heavy feeding required to finish cattle the second year. The first feeding period was from December 1,1916, to June 1,1917 , and the following table shows the ration fed the weight of the steers at commencement of feedinig the daily gain per head, and the cost per pound of gain Thirty steers weighing $15,587 \mathrm{lbs}$. Dec. 1, 1916 ost Amount a
1916, to June 1, 1917. of feed consumed from Dec.
17,194 lbs. oats at 43c, per bushel $\qquad$
8,597
6,643
". barley at 60 c . per bushel
$\$ 217.45$
6,643
5,078 u bran at $\$ 28.00$ per ton......................... 107.48
19,361 " silage at $\$ 3.50$ per ton.........................8.80
10,701 "oat sheaves at $\$ 7.50$ per to 8.80
72.60

1,543 "cut hay, sheaves and straw at $\$ 7.00$ 162.47

514 " salt at $11 / 2 \mathrm{c}$. per 1b............................. 5.40
Grinding 25,791 lbs. grain at 10 c . cwt..................................7. 25.79
Weight of steers at June 1, 1917, 21,377 lbs $\mathbf{\$ 7 0 0 . 7 9}$ Daily gain per head, 1.06 lbs .
Cost per 1b, gain, 12.1 cents.
The second feeding period commenced on June 1 and extended to October 10, during which time the
steers were on grass. The pasture was suplent steers were on grass. The pasture was supplemented made up as follows: $31 / 3$ pounds oat chop; $31 / 3$ pounds barley chop, and $11 / 3$ pounds of bran. No doubt many would consider this extravagant feening but accordin to the following table the steers made a daily gain of 2.07 pounds per head in the time above mentioned at a cost Fed consumed from Jor
1917:
${ }_{13,891}^{13,891}$ lbs, oats at 43 c . per bushel barley at 51 c . per bushel
13,891 "
5,091 barley at 51 c . per bushel.
$\$ 175.68$ 5,091 " bran at $\$ 28.00$ per ton. 147.59
71.27 $41 / 2$ months' pasturage at 80 c . per head per
month
450 lbs . salt at $11 / 2 \mathrm{c}$. per lb ...
Grinding $27,782 \mathrm{lbs}$. grain at 10
Weight of steers October 16, 1917, 29,982 lbs.
Daily gain per head
Daily gain per head, 2.07 lbs .
Cost per lb. gain, 6.24 cents.
On October 16, 1917, the third feeding period commenced, and the thirty steers were placed in loose boxes exercise was allowed, and water was provided at all and bran, with linsein was composed of oats, barley rate of half a pound per day per head. This was
gradually increased about three pounds per day. This period of getting was the most expensive of the lot. While they feeding 1.78 pounds daily, it was done at a cost of they gained per pound. This was practically what the animals
sold for. While there was considerable sold lor. value per pound of the animals as they stood before the last winter's feeding started than fom the weight gained during the last feeding period. The following cable gives in detail the ration for the last feeding period Amount and value to May 20, 1918
16, 1917, to May 20,1918 :


5,892 " linseed cake at $\$ 60.00$ per ton............... 176.76
${ }_{6,772}$ ، ${ }^{18}$ turnips at $\$ 4.00$ per ton.......................... ${ }_{36.12}$
6,772
26,460
"/ turnips at $\$ 4.00$ per ton.........
oat sheaves at $\$ 7.00$ per ton

8,361
4,819
"، alfalfa at $\$ 16.00$ pe
4,030 ". bue joint hay at $\$ 16.00$ per ton.
cut feed at $\$ 5.00$
700 " sat at $11 / 2 \mathrm{cc}$. per $1 \mathrm{lb} . .$.

Grinding $58,264 \mathrm{lbs}$ salt at $11 / 2$. per 1 lb ...................... | 38.55 |
| :--- |
| 37.57 |

Weight of steers May 20 at farm, 41,580 lbs
$\$ 16.80$ cwt.
Daily gain per head, 1.78 lbs .
Cost per lb . gain, 16.77
This lot of cattle made a profit of $\$ 81.74$ per head At the time of selling they weighed 4,190 pounds and While the above figures were obtained from feedin steers in Alberta the ration was much the same as wha is fed on an Eastern farm, and the cattle ware what

The accompanying table gives an idea of the amount of of the gains made on that ration. It also shows that gralin can be fed at a profit to cattle on grass. In the pasturing sections of Old Ontario the pastures are seldom upplemented by grain. Some do grain their cattle, but figures or statements have not been obtained to show what advantage accrued from so doing. In certain parts of Western Ontario large numbers of cattle are pasture consists of blue grass, which certainly gives good results. It appears to have the substance and body for making large gains with the right quality of
cattle. The gains depend on the quality of cattle as well as on the ration. Some cattle do much better han others in the feed lot, due to a difference in breed stockman can pick the stocker that will make good use of the feed given, whether on grass or in the stable. Feeding qualities are usually depicted in the head of an animal. To make profitable gains the animal mus have capacity, rugged constitution and the right type

## Growing and Finishing Hogs on

 Shorts and Skim-Milk.Can pigs two months old, purchased at from eigh o ten dollars apiece, be fed and marketed at a profit When alit the feed, outside of the milk, has to be purchased and hogs selling at from seventeen to nineteen cents per pound? Some claim that a man would about break even on the proposition; others say that he would be
paid a fair wage for his labor but Seemiller Bros., paid a fair wage for his labor but Seezmiler Bros.,
of Waterloo County, know that it can be done at a of Waterlioo County, know that it can be done at a
substantial profit because they have done it. In the fall of 1917 proit they purcause they have odone it. In the hundred young pigs and fed them entirify on on shorts and and skim-milk. These pignthe of age, and when the feed bill was paid there was left a trifiee over $\$ 1,500$ to pay for labor and skim-milk. at five and a hall months of age. The system of feeding at tive and a halr months of age. The system of feeding
was as follows: The shorts were fed dry in the trough was as follows. The shorts were fed dry in the trough
and then a little water was, poured over them; after this was partly, onsumed skim-milk was, placed in the trough The pigs had a fair sumply or skim-milk as the dairy herd owned by Seegniller Bros. consists of sixty Jersey cows. The pigs had what milk was left after
the caves were fed. In this case it is rather diffcult the cutes ware ed. the shis caise it is rather difencult
to put a val
hat ond und gains on the rations given. The pigs were housed
long and 34 feet wide, with a ceiling 9 feet high. Twothirds of the top four feet of each side of the pen is glass Which furnishes abundance of light for the piggery. top part, other than the windows, is of sininle-ply lumber, The pen has a tight-board ceiling with a loft above of lators run up from the floor to the roof of the building. This gives fair ventilation but the owners contemplate covering part of the space now occupied by bless with
cotton, as they believe this vill furnish ideal conditions in their piggery. There are fourteen pens on each side with a wide passageway down the centre. The piggery is
sufficiently large to accommodate over two hundred suficiently large to accommodate over two hundred
feeding pigs. Seegmiller Bros. prefer the York-Tam worth cross for feeding purposes. They are planning on keeping twenty-five proosodsows and having two hundred pigs on pasture next summer.
Hogs and dairy
cows is the combin-
ation which has put
Seegmiller
Bros. . on their feet.


A Few Promising Baby Beeves.
importance of early topping is still greater, the main object being to have all the leaves ripen at almost the
same time. Early topping ensures upper leaves of same time. .E
maximum size.
The time of topping controls, in large measure, the time of harvest. The earlier the topping the sooner mence to ripen.
The best method is first to top all plants which have reached the desired degree of development. Eight or ten days later, , go over the plantation again and complete
the operation by torping all remaining lant whater the operation by topping all remaining plants whatever
their stage of develoment. One is often obliged to reduce considerably the number of leaves left on late Ievelepoing plants, but it is better to get fewer leaves
def fair size than a preater number but too small to be or air size than a greater number but too small
used to advantage.- Experimental Farms Note.
that shorts, even of the quality now procurable, will
srow and finish pigs when led alon with milk Success grow and finish pigs when ied along with milk- success good deal on the start given the young pige. Care mus be exercised to neither overfeed nor under-feed. This necessitates keeping a close watch on the pig trough to
see that you are always feeding within the pig's appetite. see that you are always feeding within the pig's appetite.
Faillore to eberve thie doin Failure to observe this point has in more than one case resulted in impairing the pigs digestion and ther
making him unthrifty and a doubtul popoition so for as proftable gains are concerned.


Some Leicesters which May be Seen at the Fairs this Fall.

## THE FARM.

## Topping Tobacco.

The object of topping is to prevent the formation of flowers and seed, and to direct all growing energy of the plant into the remaining leaves,
The work may be done as soon as the terminal bud is clearly formed and the test results are obtained by topping before the bud has opened. Care must be taken not to bruise the leaves left on the plant.

The time to top varies with the kind of tobacco grown. With some early varieties, planted during the first half of June, the topping may be done from July 25 to Āug. 10, that is, from five to six weeks after planting out. For the larger varieties of slower growth, one may wait a week longer. In all cases the topping should be done as soon as possible,

Experience will tell the grower how many teaves he should let remain on the plant. Its vigor and de velopment at time of topping are generally good guides. For cigar tobacco, top leaves of less than 12 inches Connecticut and Burley) the larger the leaf the more valuable it is. With the yellow, flue-cured tobaccos, the ago they had $\$ 1,000$ energy and ambition. They started with a hundred acres heavily
mortgaged. This has moen added to until at the present time 342 acres with a herd of over a hundred Jersey cattle and imple-
ments and of every description
necessary on an up-to-
date farm. At each end of the barn is a
large concrete silo, and to supply feed for the cows practically the year around. Hydro lights the house and barn and furnishies
power for driving machinery. Milking is done by machine and the cream is pasteurized and shipped to Toronto. penny, but the extra price which they obtain for the cream above that for unpasteurized cream paid for the equipment in a short time.
Undoubtedly others which has come others have had the opportunity take the risk which was involved in putting ue buildings Stocking heavily and putting in expensive equipment, and there is a good deal of truth in it. Of course, success Thends to a large degree on venturing at the right time milk, hogs can be fed at a profit. They have also proven
cheir interest. On the contrary, there is every likelihood that whether success attends
they will not have labored in vain

Research into plant life and experimental work in connection with the production of new and improved varieties of seeds are receiving attention. Mr. James summoned the Highland and Agricultural Society, of which he is a director, to undertake a crusade in favor of the establishment of a National Experimental Station where, under the control of the Board of Agriculture, the production of new varieties of plants and seeds would be prosecuted. Meanwhile pending this large scheme the Board has instituted a seed-testing
and plant-testing station. The object of this establishment is to regulate the placing of new and improved varieties of farm plants and seeds upon the market. The feeling is widespread that at present there are many more names than varieties in the market; in other words, that many so-called "new" varieties are not at all new, but in the absence of any central authority to egulate such things there has been no possibility of precially seen in the case of potatoes. The evil is agreed that many varieties so-called are not varieties at all, that the only new thing about many of them is their names. The station that has been opened will both test all such and regulate the placing of genuine new varieties upon the market. It will at once protect eolipse, the spurious efforts of the charlatan who trades upon the credulity and ignorance of the unthinking The scheme which Mr. Elder has inaugurated is much more ambitious than this. Hitherto the production of new varieties of cereals and roots has been left to private enterprise. Splendid work has been done by seedsmen tending such work should be undertaken by the Govern
in Norfolk. Somehow I do not feel impressed. I never heard that Lord Lonsdale knew much about a draft horse, and I am not sure that he would ever have earned his living in horse-breeding and horse-dealing if he had not been born an Earl. His criticisms of the native Sritish draft breeds, the Clydesdale, the Shire, and the his acquaintance with them. No one who knows the A. B. C. about Clydesdales would ever write down "greasy legs" as one of their worst faults. The Clydesdale is not perfect. I do not happen to have run across any breed which is, but a good Clydesdale has the best feet and legs-by which I mean the feet and legs which wear best and longest-of any draft horse. It is rathe crange in all this talk about the relative merits of breeds that somebody who has cash to spare does not take the trouble to organize a fair trial of the wearing qualitie each. The best draft horse is the draft horse which wears best and for the longest period in the most try ing conditions. He is the horse which will last longest on the streets of great cities under the keenest tests as to endurance and service. The horse most likely to and selected for the longest period with that end in and selected for the longest period with that end in expressed it, "A horse's back will never break, but his feet will;" and we may add, bones, unless they are flat thin and clean to begin with will become gross. Recently there, was published in the Scollish Former the photograph, in his 26th year, of the Clydesdale stallion, Montrave Mac 9958. One would like to see alongsid representative Shire, Suffolk, Percheron and Belgian draft horse of the same age. I make no prophecy, but I dare affirm that not one of these others could b found which in respect of sweetness of limbs and sound ness of feet, would compare with the Clydesdale. But
varieties, simply because in that way they can render a service in rationing the armies and the civilian peoples of our Allies. In former years there appeared to be time after haying and early in September to put in a field of wheat, and this lessened the rush in the spring. More Evan uat, the straw produced heiped out wonderfully. to be no slack time, many will endeavor to put in a substantial acreage of fall wheat and these should now be losing no opportunity of getting the land into condition. Where a summer-fallow is being cared for a loose mulch should be maintained on top and all weeds destroyed with frequent harrowing. The summer-fallow makes a splendid seed bed for wheat if it is not neglected. Excellent
crops of wheat are also grown following factory crops of wheat are also grown following factory peas,
but nothing in that regard can be done just at this time Cleared sod fields should now be plowed, rolled and harrowed. The roller can be of great service if used properly, but it likewise can be the means of causing a great loss of moisture if it is not used judiciously. The best way to employ the roller is to plow no more in one day than can be rolled and harrowed before quitting at night. Sod for wheat should be plowed no less than five inches deep, and then rolled down so as to establish
if possible the little water channels which lead from the if possibir in the soil up to the surface. However, if these channels, established by rolling are not broken at the top serious loss of moisture will result, and in this way the roller may do an irreparable amount of harm. Follow the roller immediately with the disks and establish a soil mulch to prevent evaporation. Some them go on which are likely to be thrown up by the disks. This certainly leaves the surface in splendid condition and permits of a minimum of evaporation. Allow the weed seeds to germinate and then use the harrowe again before the surface becomes hard or baked.
A twelve-acre field at Weldwood yas treated in this way last autumn. A top dressing of about 7 loads of
manure to the acre was applied shortly before seeding manure to the acre was applied shortly before seeding
and cultivated in. The wheat sent up a reasonably good top growth last fall and the crop survived the winter excellently. At time of writing the prospects on this particular field are for a good crop, and this we attribute to the attention the land received prior to seeding, and the top growth made last fall. Generally, there was little growth made on wheat felds last autumn and the severe weather killed the roots. A thoroughly perhaps some commercial fertilizer, should bring the growth on satisfactorily this fall and ensure, to a degree, its survival throughout the winter and spring.

## Government's Action Questioned

The right of the Ottawa Government to cancel, by Order-in-Council, exemptions from military service previously granted under the Military Service Act, eight applications called in question at Calgary, where eight applications for Habeas Corpus have beeen received respecting young men 20 to 22 years of age. $\mathbb{R}$. $\mathbb{B}$. Bennett, formerly Director-General of National Service and member of Parliament for Calgary, introduced the first case into the appellate division of the supreme court wide publicity since. Objection to the enforcement of wide publicity since. Objection to the enforcement of
the Order-in-Council is based upon the fact that the writ or Habeas Corpus, established by the Imperial statute of 1767 as part of the British law in Canada, cannot be suspended nor abolished by the Canadian Parliament and, further, that certain procedures estab lished as law by act of Parliament cannot be amended by an Order-in-Council: action by Parliament and not the Governor-in-Council is necessary
It appears that this point was raised by the opposition at the time when approval of the Order-in-Council was however, claimed to be acting by virtue of the War Measures Act passed by the Dominion Parliament in 1914, an Act which, it is claimed, provides sufficien authority for the action taken because of a specific provision in the Military Service Act, providing that nothing in the latter Act shall detract from the powers Me Governor-in-Council granted under the War
Measures Act. The position of the Government seems Me be less assured because the Order-in-Council was
to prepared and enforced while Parliament was in session a monarchic rather than a democratic procedure, justified, according to the statements of the Government the Military Service the very great need for men. Had cording to strict constitutional procedure amended ac would have been required and this, it is maintained would have occupied more time than was is if dander the conditions surrounding the reinforcement of the Canadian Expeditionary Force.
of the majority of judges in course, appeal the decision of the majority of judges in the Alberta Court of Appeal but will in the case to the Supreme Court of Canada, from Ottawa, proceed as usual with the enforcement of the Order-in-Council. Should the Supreme Court decide against them, the Government will have no recourse but to rectify the mistakes by special session of Parliament or drop the carrying out of their avowed of doing and the administration, they have no intention tinued, whatever may happen. In the Act will be conof the Alberta Court can affect no young, the decision of the Province of Alberta. It would be regrettable indeed if the country were forced to bear the expense of a
ment. The loss attending all such experimental work is
considerable, while the resultant benefit has seldom gone in any appreciable degree to the man or firm to whom
the credit of producing the new variety belongs. That there is abundant room for such work is evident from perimental work in producing new varieties at Cam-
bridge. Scotland possesses peculiar advantages ducing new and hardy varieties of seeds and roots. A very large proportion of the seed potatoes used in
England are raised in Scotland. The world knows about Scot's Shorthorns, and Aberdeen-Angus, and
Ayrshire and Galloway cattle-all breeds distinct characteristics in the direction of hardiness and throughout the world. The same a demand for them Clydesdale horses and other breeds of horses and ponies. There is, therefore, every inducement for the Board of
Agriculture to take this matter in hand, and they are quite keen to do so.
Rererence to horses leads me to offer a few observa-
tions on the recrudescence of the battle of the breeds
Recenty Recently there came into my hands an extraordinary illustration of the enterprise of Americans in pushing
the Percheron breed in the Northwest. Apparently the promoters believe that elaborate and audacious advertising can make a breed popular. I am old-
fashioned enough to believe that what makes either a race of horses or a race of men popular is reliability
and utility. Scotsmen, as a race, have made their way in the world with a m minimum of advertising but with a maximum of the qualities which ensure respect
and stability to the commonwealth. The declaration is the greatest draft horse on o earth will never make him
is the the met
so-and if he were so there so andine were so, there would be no necessity for
proclaimin the fact at such expense. Here we are
having the same breed boomed for all it is worth by the Earl of Lonsdale in Cumberland, and Mr. Overman
on this subject enough has first and last been written the equal grade of other dradt breeds, and no one who knows anything about what constitutes real wearing quality in Meantime we are more concerned about the War be between the nations than about the War between the horse breeds. Let us earnestly labor and pray that wo
are within sight of the end.
Scotland YET.

## Preparing Land For Fall Wheat.

 In spite of the injury to wheat fields planted last seed, the farmers of Ontario will again respond no doubt to the appeals made for still more wheat, and take a nother chance on this crop which is so badly needed. Those helds which came through the winter and spring inanything like reasonable condition will yield a fair return to the grower, and at the same time help to relieve the
situation which will become acute wheat harvest begins. Seed is none too plentiful and in many cases in this. Province we shall have to take grain from the machine and prepare it for the land almost at once. There should be a spirit of co-operation
throughout the country in regard to the seed for many will have bushels to spare while others will have to purchase their entire supply,
The important thing, however, at
prepare the land or start the cultivation so a suitable prepare the land or start the cultivation so a suitable
seed bed will be ready at the proper time. Much of the
success success which attends all wheat growing depends on
the character of the soil and the preparation of the seed bed. Some farms seem particularly adapted to the crod while others will not respond to even the most diligent
and scientific attention. Wheat, in the Prover Ontario, is not the most popular crop by any means, and many are growing it now, both fall any means,
.

## Canada's Young Farmers and Future Leaders.

Estimating the Farmer's Business A few days ago we were on our way to a pure-bred
stock sale and overheard four farmers discussing the farm surveys which are being conducted by the Ota Department of Agriculture. One man said, 'I haven't seen those government fellows around our part of the country lately; I guess they must have given it up for a bad job. The next man said, perhaps there were too many like myself, couldn't give them a very good idea
about a lot of things they wanted to know, I heard about a lhe of things they wanted to know. I heard didn't make it go very well here in Ontario.
he's "John Smith's boy was home the other day, I guess he's got a pretty soft job. He's on this farm survey get out about 9 o'clock in the morning atid quit about four o'clock in the afternoon with a couple of hours of "Oh well to stop early' and firure out what they have done have the day. I heard the man in charge, from the College at Guelph, talloding about the resulte from the survey in Peel County lsot fall, and about all they had found out was that it paid better to run a big farm than a
small one. We lnew that before, but 1 suppose the small one. We knex that before, but I suppose the
Government has to find some way to spend money and I guese that is as good a way as any other."
and I guese chat is as good a way as any other." being conducted in Peel County, it was our privilege to spend a day vith those who were taking the records, in order to eee how it was done. Some men didn't see the good of the eurvey any more than the men quoted above and oae man said "Well, I'm pretty busy digging potatoes and, any hay, I dours or more see why time to tell someboud take about my businese I don't see how I'm going to get anything out of it: I just wish I could use all the education H've got. If you want my opinion of the whole
business. Ithink its just a scheme of the council to raise business, I think its just a scheme of the council to raise our taxes. They may not do it next year but they will do j just the same.
Fortunately.
Fortunately, most of the farmers appreciate the purpose of the surveys that are being undertaken even many ways whereby they themselves may be benefited bya careful analysis of the information secured regarding the agriculture of their own community. It is not the
purpose of this article to discuss the importance of purpose of this article to discuss the importance of
these surveys, ,although it does appear to us that there
are two very great benefits to be derived from them, either one of which would of itself warrant the expenditure of time and money entailed. In the first place, the advantage of direct value to the farmer lies and he fact that he can, after the results are published his farming methods with one his own farm, check up munity. He can tell whether he har farmed the con or better than the average and if he has failed any place, it should not be difficult to find out just where he fell down. The advantage of knowing this pretty accurately and of knowing also what crops or types of larming have proven most profitable in his own township or section, can scarcely be measured in dollars and cents, but anyone the survey, especially after sufficient data has accumulated to make the figures absolutely reliable. In the second place many wrong impressions prevail among those who are not farming regarding the profits that farmers make. Like sin and the devil, these impressions are always operating against us. Only can figure" is an old saying and to prevent liars from figuring wrongly and to secure figures that really will not tell a lie, they must be gathered from the farms. No good would come from publishing profits from Joh Brown'slarm, butif his profits are averaged with hundreds of others, the evidence cannot be disputed and critica long aso a man, mo should appear ridiculous. No to us that farmers were getting rich out of the war and that they were the greatest "cold storage" manipulator in the country. This was a little too much for us We quoted a few yards of figures from the Caledon Survey. The figures were correct and could not be disputed, so this gentleman was obliged to acknowledge a It is more ju
crop vields and cash the actual profits in farming. Certainly the estimates of a few men would not prove reliable, but the estimate of a few are not depended upon in these surveys. It has been found that where sufficient numbers of estition and the figures of faraverages comes into operanearly balanced by those who underestimate; so that the result is correct for all practical purposes, provided that those who take the records, check-up a man's statements so far as possible and discard those records where inaccuracy is detected. Perhaps the following
extract from a bulletin by Spillman of the U. S. Department of A Aricultere, referring to a the Uurvey in Departthe reliability of
Among the several hundred farms included in the survey were 135 that sold milk to creameries. Each possiblers was asked to give as accurate an estimate as possible of the amount of money he had received for
this milk. After the survey was parthity fintided occurred to the investigator that it pruld be posible to secure a check upon the accuracy of these eatimates by obtaining the actual figures from the creameries themselves. It was decided also to test in a similar manner the farmers' estimates of the quantity of milk each of milk sold were then. The estimates as to quantity visited after the decision had been from the 79 farms test. The farmers did not as a rule weigh their tomin milk and were not as accustomed to dealing with weights as they were with money; it was to be expected, therefore, that the estimates of quantity of milk sold would be less accurate than those of money recoived, and this was the case, as will be shown below. After obtainboth for weights of milk sold and for actual figures, were secured from the creameries thet had purchosed the milk.
Estimated pounds of milk sold ( 79 farms) ....... $3,518,818$ Actual pounds of milk sold ( 79 farms).............3,487,320
Estimated value of mivile oold ( 135 7arms) $\quad 3100,31,496$ Actual value of milk sold ( $(135$ farms $)$........... $106,155.50$

## Difference. 87.50

It is been that the error in the quantity of milk sold is a little less than 1 per cent. of the whole. At the
same time the individual estimates of pounds of till same time the individual estimates of pounds of milk above to 36 per cent. below the correct figures. In the total these errors tended to counterbalance each other so that the sum of the estimates was quite accurate. In the estimates of money, in. terms of which the farmer is accustomed to reckon, the error in the total is less stances will serve to show something of the measure of accuracy attainable in the results of the farm

## Automobiles, Farm Machinery and Farm Motors.


$0^{2}$
Fig.4-Diagram Illustrating Valvo-timing and Spark-timing.

## Valve Action.

In the four-cycle engine let us study the cycle, or valves open by suction, as has already been mentinake alves open by suction, as has already been mentioned.
It is evident that in such cases the valve cannot until the piston moving outward has created sufficient suction to overcome the spring that holds the valve shut-the stronger the spring the later the valve will open, and the weaker the spring, the earlier. The in-
rushing mixture restores the pressure in the cylinder rushing mixture restores the pressure in the cylinder thus reducing the suction, consequently, the valve
closes before outer dead centre the suction again drops down to equal the strength of the spring, but the action is the reverse of the former, i. e., the stronger the spring the earlier the valve closes, and the weaker the spring the later. In engines of
large bore and low speed, especially of the hit-and-miss type, the automatic intake has been found to give fairly good results, but for high speed engines it is and besides the strength of the spring lessens with age, thus deranging the timing of the valve. Moreover it
is found that better results are obtained if the intake valve is held open until after the piston passes outer dead centre. Consequently in high speed engines the intake valve is operated by a cam. So also is the exhaust
valve in all cases. whether the engine be of low or high
speed.

The method of operat-
the valves depends
ing the valves depend-
upon the type of head
upg the the tye of head
used. If it be a T-head used. If it be a T-head,

## as shown in figure 1 , the intake valve is on one sid

the exhaust is on one side of the cyclinder, and two exhaust valve on the opposite, and it requires open upward being operated by push-rods as the cams come round. In the L-head, figure 2 , both cams are placed on the same side of the cyclinder, and both cams are placed on the same shaft. Here also the figure 3 , the upward. But in the valve-in-head type, hence the push rod must be attached to a "rocling arm" which presses downward on the valve stem when the cam moves the push rod upward.

## Valve Timing.

When the valves are mechanically operated the mechanism may be so adjusted as to open and close them at such times as will give greatest efficiency
Since the fuel is taken in by suction there would be advantage in opening the intake before the beginning of the suction stroke. As a matter of fact it is usually opened from 7 to 10 degrees after inner dead centre, the exact amount depending upon the design of the particular engine in question. In a few cases, however, the intake valve really opens before the suction stroke
begins, and as already intimated, best results are ob-
intake, compression, power, eithaust.
tained when the intake valve is held open after the end of the suction stroke-as much as 20 degrees and sometimes 30 degrees past outer dead centre. Why better
results? An automobile is going at high speed. The results? An automobile is going at high speed, The power is shut of and the car is carried forward a conarising from its welght own momentum, i.e., the force arising from its wergit and speed. The same applies rapidly through the carburetor carrying fuel with it, and when the suction is shut off the momentum of the mixture keeps it still fowing into the cyinder. The result is that each charge of fuel mixture is larger than it otherwise would have been, hence the engine develops more horse-power, simply because the intake valve is held open by the cam and push rod.
Let us turn now to the exhaust valve. As already stated, it is opened before the end of the power stroke,
thus allowing most of the Durned gases to escape by their own expansive power, consequently there is little back pressure during the exhaust stroke-only a smali portion of the gases remain to be driven out and the exhaust valve is wide open to permit their easy escape. centre, the momentum of then a rew degrees ater dead ange the cylinder for a short time after the starts downward. Of course the exhaust valve must close before the intake again opens, except in a very few specially constructed engines.

The thg and lead of the valves is not the same for all engines. The slower the speed the later the valve may open and the earier they should close, and vice verse. For mechanical intakes, the valve opens from
7 to 10 degrees after inner dead centre and closes from to 10 degrees after inner dead centre and closes from
10 degrees to 40 degrees after outer dead centre, while 10 degrees to 40 degrees after outer dead centre, while
for automatic intakes the valve opens about 20 degrees for automatic intakes the vaive opens about corresponding centres. The exhaust valve opens 25 to 45 degrees before outer dead centre and closes from 3 to 10 degrees after inner dead centre. The diagram in figure 4 should aid in remembering
open and close.
open and close.
The ge timing of the velves is effected first by putting the gears in mesh at the proper point. If, for example, its intake valves open 10 degrees after inner centre, then the crank shapt is turned 10 degrees past centre and held in that position while the cam shaft with its gear is rotated till the long side of one intake cam is just beginning to bear on the intake push rod of that
cylinder, and then the gears are slipped in mesh. Becylinder, and then the gears are slipped in mesh. Beshould be checked over to make sure that the gears are meshedexactly right, and not one cog too far either way. When the eears are right for one valve they will be right for all other valves operated from that cam shaft. In the Thead engine there are, of course, two cam hafts, each of which must be timed separately.
After the gears are properly meshed, the push ton must be inspected, and adjusted if necessary. Its valve stem almost immediately the cam begins to raise the push rod. If the push rod is made too long, it will hold the valve slightly open even when the short side of the cam is in contact, thus causing loss of power. If it is too short a "noisy tappet"" will result. To avoid these troubles it is customary in adjusting the puishbetween it and the valve stem when the short side of the cam is in contact. With the gears in proper mesh and the puish rods all the right length the timing of the valves will be as intended for that engine.

## Need of Ignition Timing.

But the valves are not the only part of the engine that needs timing. The spark timing is equally important. To get best results from the fuel used the expansion of the power stroke must become effective
jues ts the mixture burned with an instantaneous explosion the
spark would need to occur just as the piston reaches spark would need to oocur just as the piston reaches
the centre-but it does not, indeed it burns rather slowly compared with explosives such as gunpowder dynamite, etc., consequently the spark must occur before inner center in order to allow time for the fuel to be completely burned just as the piston rounds the centre. The time required for a charge to burn is the same whether the engine be running fast or slow, con sequenty there must be provision made for changing
the timing of the spark with the speed of the enginethe faster it runs the more the spark must be advanced the slower the more the spark must be retarded. Speaking in a general way the spark must be changed about 5 to 7 degrees for each change of 100 revolutions in the speed of the engine. Figure 4 shows the spark occurring before inner centre. Spark timing will be
considered more in detail under Ignition Systems. NOTP. Thi in detail under Prof. W.H. Day, on Gasoline Engines. The first arcea by in the issue of June 13 and described internal combustion engines. These articles should prove intensely interesting and beneficial to many of our readers. The use of gas engines in various froms is becoming quite common better understand his machine and thus of an engine to position to prevent or to overcome difficulties which occasionally arise with power machines.-EDIToR

## Width and Length of Belting.

Editor The farmers Ao
What width and length of rubber belting will be necessary to use with a six-horse-power kerosne engine
to run a 30 -inch circular saw? Is a 4 -inch, 4 -ply belt
lizhle to Ans--The or run off the pulteys to permit of a definite solution. We should data diameter of the pulley on the saw. For single belting common formula for width is:

## $\mathrm{W}=900 \times \mathrm{H}$, where

$\mathrm{W}=$ width of belt in inches
$\mathrm{H}=$ horse-power to be transmitted.
$\mathrm{S}=$ Speed of belt Let us apply this formula. A 30 inch saw should
n 1,200 r. p. m. Suppose the pulley is 7 inches in diameter, then the speed in feet per minute
$7 \times 22 \times 1,200=2,200$

## For any other size of pulley, calculate the belt speed

 Therefore width $=900 \times 6=2 \frac{1}{2}$ inches, nearly for For double belt the formula is: single beltingS

## Hence in this case: $\mathrm{W}=630 \times 6=13 /$ inches, nearly, for double belting.

 From this the correspondent will thus see that a4-inch 4-ply belt should be quite ample.

Now as to length, in theory this is immaterial, provided the belt is tightened according to its length, i.e., the shorter the belt the tighter it must be, and vel
versa. But in practice it is found that a very short belt puts undue strain on the bearings, and shafting, while on the other hand a long belt is liable to be unsteady because of flapping. About 20 to 25 feet between the
W. hafts is good practice.

## Boiling Water.

All motorists, and particularly those who are not thoroughly experen whe times the water over-heats because of a mistake made by the driver. For instance, he might forget to advance the spark. Just as soon as he remedies his error, the water will reach a normal temperature again. Water boiling occasionally does not do any harm. There is an over-flow pipe coming up within a close distance water can be drained to the means of this the expanded be developed it also is capable of exhaustion without danger.
If the
the supplorg water continues for sometime, however, If all the indications in the radiator must be replenished. be careful about removing the radiator cap, because there is real danger from scalding, for the water may burst forth like a young geyser. It is the cool down if you think the over-heating has been excessive and that the water, upon the cap being released, may rush into the air. Should you notice that the over-heating seems to be chronic, it would be well to search out the cause of the trouble. Perhaps in the first instance there may be a lack of water, and if so, such a
condition can be easily cared for it is that the fan belt is damaged or loose or broken, and so does not work effectively. Common sense will tell you how to remedy this difficulty. If the spark lever has been retarded too far and you have run your machine any distance, make it a point in the future before getting well under way to see that the spark is properly advanced. sometimes the circulation of the water is almost stopped by a collection of foreign matter or and wash it out properly untilall dirt has been thoroughly removed. You will understand that if the water caa not circulate, then the jackets around the combustion chambers cannot perform their mission by reducing to a minimum the heat caused by the constant explosions. you do not drain the oil from your crank caseating. If intervals you will soon subject your coase at regular unnecessary friction. The oil in the crank case has a tendency to wear out and, just like any other mineralized substance, loses its life and becomes inactive. You should remove all the old oil periodically. Clean out the supply of oil. Putting in fresh oil with old oil does not suppitain a proper standard worn-out lubricant and replace it with remove the New oil keeps the engine from over-heating becanse it has sufficient body in it to reduce friction. If the cylinders in your car become heavily carbonized there is going to be a tendency to boil the water. We have mentioned, in a number of previous articles, the system own warage by means of be removed, either in your own garage by means of tools, or at any public garage sary to give as a further cause of boiling water, the use of too rich a mixture. Even novices at the motoring game know that when you are turning out a combination of gasoline and air that is out of proportion, the the motor, and hence the water that flows through the

Jackets. It is also a matter of every-day information You can easily plugs tend toward rising temperatures If you fand they are your spark plugs for inspection stances take away the foreign matter.
We know of one motorist who was greatly annoyed at the constant over-heating of the water in his radiator Having had considerable experience with automobile his price was hurt when he realized that he had exhausted all his knowledge in endeavoring to locate the trouble, Upon taking the car to an expert, it was some little time before the latter secured a correct diagnosis, And what
do you think he found was the difificulty? Nothing more nor less than that the fan belt blades had in some unaccountable manner become so bent that they were not creating an adequate circulation of air through the radiator. We have not heard of many similar instances We think that should your power plant develop the habit of over-heating, you will find the cause of the rouble behind some of the usual symptoms that we have arise. You catimes, however, peculiar situations wil of a motor carn. This means that each driver should always be on the alert. Keep every moving part of your car under inspection at all times. Should any part become bent, torn or out of alignment, remedy it with out delay, or it may eventually cause a considerable amount of trouble.

## THE DAIRY.

Butter-fat is 100 per cent. digestible; no wonder it is
good for children.品

A scrub bull allowed to run in the feld with the cows will never do his owner any good.
It has been proven possible to produce clean milk having a low bacterial count without expensive barns or equipment.
Daughters of King Segis Pontiac Count have broken 100 different world's records for various combinations of milk and butter production.

Some move for accredited herds free from tuber culosis is in order in Canada. Dairymen generally must awaken to the peril of this disease

About 50,000 cattle are tested each year for tuberculosis in New York State. The percentage of reactors has dropped from 22 per cent. a few years ago to 11

A dairy council has been organized in Minnesota
for purposes of education and publicity. So far, farmers who sell butter-fat have agreed upon an assessment of $1 / 8$ cent per pound of butter-fat.
Low Banks Queen Pontiac Korndyke, with 535.0 lbs. milk in seven days,ties the American champion for She freshened under 24 months of age A 14 -year-ol Kanse Holstin
A 14-year-old Kansas Holstein has recently com5.92 per 1 . record in 7 days, the fat average being 5ercentages of $8.6,9$ and 8.9 per cent.

Milk is important as a food, because it is the most complete and well-balanced of any single food. Moremake it vitally necessary for babies and childres which

Rose De Kol Wayne Butter Boy has recently com-


Shade in the Pasture Means Comfort for the Herd.

Testing Ice Cream For Fat. Professor H. H. Dean, of the Ontario Agricultural College, states that his department has been in receipt
of many enquiries regarding the new regulations laid of many enturies regarding the new regulations laid
down by the Canada Food Board with reference to the manuacture of ice cream, and the methods of test-
ing ice cream or fat
order No ing ice cream for fat. Order No. 34, section 8, of the
Canada Food Board, reads: "On and after May 1, 1918, no person in Canada shali use in the manufacture of ice cream more than ten 'per centum of fat, whether of animal or of vegetable origin, or more than six. pounds
of cane sugar to eight gallons of ice cream."
Prof. Dean states that his department has been conducting some investigations and these investigations have rebatch of ice cream which will produce about eight gallons of good quality material and which will come within the regulations as laid down by the Food Board. The cost of the ingredients in this formula will range
from 53 to 57 cents if bought in small quantities; whole sale buying would, of course, reduce the cost. The recipe follows: " $441 / 2$ pounds or $41 / 2$ gallons of cream
testing 13 per cent. fat; $11 / 2$ pounds skim-milk powder 6 pounds cane sugar, ( $11 / 2$ pounds sugar may be re-
placed with 2 pounds corn syrup); 4 ounces vanilla xtract; 8 ounces gelatine dissolved in 6 pounds or onehalf gallon skim-milk. If whole milk and cream are ice cream testing not over ten per cent. fat, assuming 3.5 and 18 to 20 per cent. fat respectively". It will be
 may be replaced by 2 pounds of corn syrup. The sugar
supply being under certain restrictions, it is necessary here is no sugar as much as possible, and while ce cream, the United States Food Administraction of gone so far as to urge the people of their country to
patronize only those firms using corn syrup in the manuacture of ice cream, instead of cane sugar. Ice cream is a holesome and healthful focd, but on account of the fact that it requires so much sugar in its manufacture, other
foods are much more saving of sugar, unless a substitute for cane sugar is used
Prof. Dean gives three methods of testing ice cream for fat, and these are given herewith in his own words. which has been laid down for ice cream, that the material be tested occasionally in order to avoid and guard against

THE FARMER'S ADVOCATE.
error in standardizing methods tce cream cannot te tested for fat in the same way as the ordinary cream, on account of the large percentage of suga
contains. Professor Dean's methods follow:
"1. Glacial Acetic and Hydrochtoric A representative sample of the ice cream is tate and the sampl of the ice cream an melted and thoroughly mixed; a 9 -gram sample weighed into an 18 -gram Babcock cream test bottle. A acid and concentrated hydrochloric acid. Twent acid and concentrated hydrochloric acid. 9 -gram sample of ice cream in the test bottle and is the all well shaken. The bottle is placed in a water bath of 120 degrees F. to 130 degrees F., and shaken at intervals until a brown color appears. It is then placed same way as for testing cream and the reading multiplied by two.
"2. Sulphuric Acid Test-To make the test with sulphuric acid, a $9-\mathrm{gram}$ sample is weighed into an 18 -
gram test bottle. About 9 cubic centimeters of lukewarm gram test bottle. About 9 cubic centimeters of lukewarm water is then added to dilute the sample in order to have about 18 cubic centimeters of mixture in the botime,
The sulphuric acid is then added slowly, a little at a time, The sulphuric acid is then added stowly, a little at a timio until a chocolate brown color appears in the bottle. No definite amount of acid can be stated as the quantity will vary with different ice creams, As soon as the chocolate brown color appears in the ice cream a little acid. The bottle is then placed in the centrifuge and the test completed in the usual way. The reading is multiplied by two.
3. Acetic and Sulphuric Acids.- Weigh a 9-gram sample of ice cream that has been thoroughly mixed. dilute the sample. Add 5 cubic centimeters of acetic acid, then add carefully 6 to 8 cubic centimeters, sul phuric acid. Centruge, and then add water the same the reading by two, to phain the per bottle, multicly the reading A nine-gram bottle which is gradvated to give the percentage of fat directly, needs no correcticn when reading.

## HORTICULTURE.

Be sure and keep the weeds down in the young trawberry patch
If any trees are so heavily laden that they need A good application of tankage or other good manure on the asparagus bed just now will pay for itself and

It is not wise to cultivate raspberries during the
picking season. Give one or two stirrings after picking picking season. Give one or two stirrings after picking is over, and then stop for the season.

The cover crop should be sown in the apple orchard by now to avoid winter-killing of trees next
Rape, buckwheat or red clover are in general use.

Watch the orchard for twig or fire blight. Cutting out of infected parts and disinfecting all tools and
wounds with corrosive sublimate 1 to 1,000 is the only wounds with corrosive sublimate 1 to 1,000 is the only

## The United States Fruit Grop.

An estimate of the apple crop of the Unites States, made by the Bureau of Crop Estimates on June 1, give year average on June 1, of 68.2 per cent. New Yor State, as a whole, will have a much heavier crop than The Hudson Valley crop will be somewh in advance. The Hudson Valley crop will be somewhat less than the States of Maine New Hampshire and Massachusett shows a lighter condition percentage of 62 as compared with a ten-year average of 89,65 and 85 , respectively Cold weather damaged the Batdwins in Matine and the Gipsy moth, together with a light bloom, hit the New Hampshire crop. In the heavy-producing counties of Virginia, West Virginia, Maryland and Pennsylvania, a condition of 65 per cent. Was indicated as compar
with 62 per cent. last year. Southern Ohio reports per cent. as compared with 25 per cent.; Michigan, per cent. as compared with 70 per cent.; Illinois equal per cent. as compared with in similar to Illinois.
A very large boxed apple crop is indicated in the Western States. Hood River, Oregon, reports 100 per centl, vouthern Oregon 50 per cent, Whame 50 valley Yall varieties 75 per cent., winter varieties 50 per cent 9,000 to 11,000 cars. Wenatchee will have about the same sized crop as last year or $6,250,000$ boxes, with Jonathan and Delicious good. A record crop is reported from Spokane County, sufficient to overcome the light production in Walla Walla: Washington State normally produces over one-hafr or the western boxed applanding factors in the West Last year's production was estimated at 3,500 cars, this year it will not exceed twenty per cent. of a normal production. California stands second to Washington in importance among the WesternStates, and the 1918 crop promises to be lighter.
Generally speaking, the peach crop of the United

States from sections from which we have reports ill per from thirty-five to forty per cent., cherries fift per cent., pears seventy-five to ninety per cent. in the fifty per cent. of the peach trees are practically dead from winter injury and the balance badly injured. Conditions with respect to small fruits are relatively the same as in Canada.

## July Fruit Crop Report.

So far there has been no improvement over the Jung reporte received from the Ammapolis Valley in Nova Scotia. The crop was very variable but will be less that that of last year; probably only thirty to forty pe cent. of a normal crop, and a total yield of not more thain 400,000 barrels. The weather during the blossomin period, which was about three weeks earlier than usnal was cool and not generally favorable for pollination Apple-scab, however, is almost completely absent and the fruit is reported to be of a remarkably fine quality Varieties giving the best promise are: Gravenstein Fallawater, Ribston, Blenheim and Stark: A fai crop is expected in Prince Edward Island, while in the Fredericton section of New Brunswick early varietie, are about seventy-five per cent. of a hormal crop. Winter varieties are for the most part light.
The weather in Ontario and Quebec for the past month has been cool with considerable rainfall and the ripening of small fruits has been delayed; in fact, the temperature has been below the average for this time best prospects for apid growth has been prevented. The County, Georgian Beay in Ontario are in Prince Ewary Counties, where the yield will be much greater than last year. Spies and Baldwins are very light in all dis-
ricts, with winter injury very strongly emphasized in tricts, with winter injury very strongly emphasized in Eastern Ontario and Quebec, particularly in young
orchards and a large number of the old Fameuse orchards. In British Columbia the crop will be about equal greater had not severe frost injury been experienced on
May 24 . Vancouver Island reports apples only atout May 24. Vancouver Island reports apples only about
fifty per cent. of last year, with a wery heavy drop: The inland Valleys show very irregular crops, with conditions particularly favorable in the Kootenay
Valley. In this section cherries and plums are sixty per cent., apples eighty-iive per cent., and raspberries seventy-five per cent.
Generally speaking, the cherry crop is not heayy, no material change being recorded since our survey of the Niagara district a short timeago. In British Columbia here is a good average crop, although there has been some frost injury and a heavy drop. The Niagara pear crop Keiffer and Bartlett showing best. filure in most. of the other parts of Ontario, Quehec and Eastern Canada, although a heavy crop is reported from British Columbia. Winter injury has seduced the peach crop to about forty per cent. of normal in
Ontario. In British Columbia the yield will not exceed sixty per cent. of normal, a loss of about twenty-five sixty per cent. of normal, a loss of about twenty-five
per cent. having been due to the May frosts. The plum per cent. having been due to the May frosts. The plum
crop in British Columbia was reduced twenty-five per cent. by frost. Japanese varieties are light, with Reine Claud, Bradshaw and Gueii giving the best promise.
Throughout Ontario and Quebec the crop is light to Throughout Ontario and Quebec the crop is light to
fair, with about fifty per cent. of the trees winter-killed in Quebec, except varieties of the American species. Grapes generally will be a good crop and raspberries from sixty-five to seventy-ane per eent.e, but strawblackberries suffered very heavily from winter-killing. By approyal of the War Trade Board the entry of fruit and vegetables into Canada may be permitted with-
out license until otherwise ordered, except the followout license unti, otherwise ordered, except the follow
ing: Blackberries, gooseberries, currants, cucumbers, ing: Blackberries, gooseberries, currants, cucumbers, parsnips, salsify, pomegranatés, quinces, nectarines, mangolds, egg plants, green peppers, Brussels sprouts, asparagus,

## POULTRY.

Great Britain is about to issue grain cards to Biddy and her family.

An English correspondent states that the demaind for Indian Runner ducklings is about twenty times the supply.

The New England States are watching Canada's experiment in regulating the grading of eggs. We in of eggs locally, or within each province.

The Advisory Council of the National War Emergency Poultry Federation of the U. S., met in Chicago,
June 10 and 11 , to complete and adopt by-laws. The objects of the federation are to further the war for the Allies and "to promote and protect the polutry induetry during these trying war times and in the reconstruction period after the war, when it will be necessary to re-
stock Europe and practically all the balance of the stock Europe and practically all the balance of the
civilized world with poultry for commercial and breeding purposes.

Preparing Green Ducks For Market. Food Board Regulations of Interest Editor "Tais Favier's, Advocits"
Owing to high feed prices it is more important than ever that green ducks should be marketed at the earliest possible opportunitywivefore the war, when feed prices were normady, wevfound it most profitable to get the tutcre ort Werr thands just as soon as they reached a market able age. When disposing of them as early as possible
one should keep in mind, however, the necessity of having as large a proportion as possible of flesh on the
frame Not only must the ducks be well fattened, but frame. Not only must the ducks be well fattened, but
care must be exercised in killing and plucking them for martet

Before being killed, ducks should be starved for twenty-four hours. This is necessary to clean out the intestines of food, which makes the ducks keep longer. The best way to kill a duck is to place it between the knees and then with a killing knire, having a blade o the juncture of the head and neck. As soon as the duck the juncture or the head and neck. As soon as the duck with a fairly heavy stick. This stuns the duck and makes t easier to pluck.
manediately aiter the duck is stunned it should be plucked. The plucking should be done dry as both the duck and the feathers are better than when the duck is scalded. First pluck a few feathers from the breast as the duck is held on the lap with its back down. These eathers are plucked in the opposite direction to which the tie. Thie rest of the feathiers on the body are pucked by wetting the right hand and grasping the feathers they lie. By plucking in this way the down is taken of they lie. By plucking in this way the down is taken off
with the feathers. Plucking is often done with the aid of a eharpknife, which assists in grasping the down and eathers. Where the ducks are to be marketed locally or are
intended for immediate consumption, they may be
scalded or steamed. The dense plumage of the ducks scalded or steamed. The dense plumage of the ducks
makes it more difficult to scald properly than a chicken. makes it more difficult to scald properly than a chicken.
Moreover, the fatty nature of the duck flesh also makes it more liable to injury, and consequently great care The best practice, if you want to pluck the ducks easily, is to wrap them in burlap or old grain sacks after scald ing them. Have the water quite hot and dip them in, ing them. Have the water quite hot and dip them in,
moving them up and down in the water two or three times, this in order to have the water work into the feathers. As soon as the ducks are withdrawn from the hot water, wrap them in the old grain sacks and allow them to steam for a few minutes. This steaming process seems to loosen the feathers and makes plucking easier than when dry plucked. When proper care is used ducks may be plucked quite rapidly in this way and at the same time present a good appearance. When the ducks are scalded, picking is usually done with the duck on a
bench or table. Usually the soft feathers of the body bench or table. Usually the soft feathers of the body
are removed first and the stiff wing and ail feathers later Macdonald College, Quebec.
M. A. Jull.

## FARM BULLETIN.

## A Good Summer Show at Calgary.

The annual summer show at Calgary was held las success, particularly in the live-stock department where there was a splendid display. The Clydesdales were strong with 133 entries which made keen competition.
D. Thorburn, De Winton, Alta, carried off the Clydesdale male championship on Scotland's Splendor, whil J. W. Durno, Calgary, Alta., won like honors in the Sixty-two Percherons of good quality were and Acme, Alta., had the male champion in Keota Jalap, and Acme, Lane.'s Norabelle won a similar standing among the females.
The leading Shorthorn exhibitors who contributed to a grand display in this breed were Chas. Yule, Car-
stairs, Alta.; J. G. Barron, Carberry, Man. I I Fllitt Guelph, Ont.; L. A. Bowes, Calgary, Alta.; T. B. Ralphs Calgary, and R. A. Wright, Drinkwater, Sask. Yule wor the male championship with Craven Knight, and Bowes had the best female in Collynie's Best. Elliott of Guelph had a very good senior herd and won first with it on Four well-known Hereford herds were represented Calgary; the Curtice Cattle Co., Shepherd; G. E. Fuller, Girvin and L. O. Clifford, Oshawa, Ont. Collicu Clifford was strongest in young stuff and had the junio emale champion in Perfection Lass 5th
In Aberdeen Angus, which put up a splendid showing,
the major portion of the prize money went to J . D MacGregor, Brandon, Man., though Jas. Bowman, Guelph, Ont., and E. A. Noad, Olds, Alta., gave keen MacGregor, on Black Cap Glencarnock and Majesty's The horse and cattle judges were: Clydesdales
Wm. Grahamf, Claremont, Ont.; Percherons and Bel Wm. Graham, Claremont, Ont.; Percherons and Bel
gians, A. Robinson, Pekin, Ill; Shorthorns, Lawrence
Ogden, Maryville, Mo. Ogden, Maryville, Mo.; Herefords, Frank Brown, Carlton, Oreg
Guelph, Ont.

If smut appears in the corn crop destroy the affected plants. That treatn
in Farm Homes.
Persistent reports have been going around tha clever crooks are operating in the country and imposing fines on farmers for having too much flour, sugar, of other provisions, that are being regulated by the Canada Food Board. These imposters, it is cla Canada Food fine and are not representatives of the Canada Food that many farmers have been victimized in this regaid simply because they are not acquainted with the regula tions and do -not take the trouble to ascertain whether the stranger is a bona fide inspector or not. Inspector of the Canada Food Board "invariably carry credentials, writes the Secretary. Anyone questioned by a strange in regard to food on hand or anything of this-nature should first ask for the credentials of the inspector or questioner. There is no need of being stampeded by strangers going throughout the country. First be sure that the parties interviewing you are bona fide servant of the Government and then give them they see

A few of the important regulations governing the purchase, storage, and consumption of food in farm Omes are give 30 deals
Order No. 30 deals with cane sugar and reacis as follows

1. No person shall hold or have in his possession, or under his control at any one time, cane sugar more
than is sufficient for his ordinary requirements for a than is sufficient for his ordinary requirements for a provi ed:
(a) A person living at a greater distance than two miles, and less than five miles from a dealer lizensed by the Canada Food Board, may have in his possession or under his control, cane sugar not more than is suffiexceeding thirty days; requirements for a period not distance than five miles, and less than ten miles from dealer licensed by the Canada Food Board, may have

in his possession, or under his control, cane sugar not for a period not exceeding sisty days; and a person living at a distance of ten miles or more from such dealer sugar not more than is sufficient for his ordinary re-
quirements for a period not exceeding one hundred and Order No. 31 says in part: "No person shall hold o have in his possession, or under his control at any one thene, flour made wholly or in part from wheat more period not exceeding fifteen days, except as hereinafter period not
miles and less than five miles greater distance than two the Canada Food Board may have in his licensed by or under his control, flour made wholly or in part from wheat, not more than is sufficient for his ordinary re quirements for a period not exceeding thirty days; person living at a greater distance than five miles, and Food Board, may have in his possession, or under his control, flour made wholly or in part from wheat, not more than is sufficient for his ordinary requirement for a period not exceeding sixty days; and a person living may have in his possession, or more from such dealer made wholly or in part from wheat, not more than is sufficient for his ordinary requirements for a period not Section 1 of Order No. 31 of the Canada Food Board has been amended by adding the following sub (c) "A bone fide farmer shall be permitted to hold,
subject to the order of the Canada Food Board the subject to the order of the Canada Food Board, the
amount of flour, made wholly or in part from wheat amount of flour, made wholly or in part from wheat
from whom it was purchased or by whom it was manufactured, the excess amount held by him. It shall then be the duty of such miller or dealer to report all such plied, and at such times as he is directed.
plied, and "Any person holding or having in his possession not more than 25 pounds of flour made wholly or in part from wheat, or who holds or has in his possession which such flour part only of one original pacikage in exceed 25 pounds, shall be permitted to hold the same."

The order previously referred to also prohibits the feeding of milling wheat to poultry or live stock, and the sale of same for these purposes. A mixture of wheat
and other grain which does not contain more than and other grain which does not contain more than twenty-five per cent. of wheat may be sold or purchased or used for the feeding of poultry, this Order says.

Order No. 35 states as follows:
consumption French pastries, iced Cakes, for private consumption French pastries, iced cakes, or cakes with exterior: and no person shall use in Canada cane to the for making for private consumption, what is commonly called candy.
Order No. 46 has to do with public eating places, but one part deals with private and semi-private luncheons, dinners, parties and picnics, where food or refreshment is served to fifteen or more persons, other
than members of the family or household of the prothan members of the family or household of the proprietor. Anyone having to do with public festivals, or events coming under this Order, should communicate
with the Canada Food Board and get a copy of the regulations covering same.

Order No. 50 is of recent date and concerns the baking of bread and use of substitutes for flour. Instructions regarding thi

There is also an Order-in-Council prohibiting waste large field, and we believe that in the farm homes a least, there is little chance of any food being wasted. The same Order-in-Council controls the holding of products until they deteriorate or go bad.
Public eating-places are under strict regulation in
regard to meatless days, but it has been left to public regard to meatless days, but it has been left to public support to carry out the
gard to the private home.

## The Harvest of the World.

The conditions under which shipping has been carried on have made the North American Continent the chief food crops in other countries have considerable bearing on the situation and as the enemy submarine becomes less menacing and shipbuilding is speeded up, no doubt, the other grain producing nations will have a chance to contribute more to the rationing of our Allies. At any rate it is interesting to know when the world's crops
are taken off. A small booklet issued by the Grain are taken ofr. A small booklet issued by the Grain
Growers Grain Company gives the harvest time as Growers
follows:

January-Australia, New Zealand and Chili,
February and Egypt. Feruary and March-East India and Upper
uba and Persia Egypt, Syria, Cyprus, India, Mexic May-Central Asia, China, Japan Southern United June -Turkey, Greece, Italy, Spain, Portugal, Sout Jance, and Central United States.
July-Roumania, Austria-Hungary, South Russia ermany, France, South England and North Central August-Belgium, Holland, Denmark, Great Britain, anada and Northern United States.
September and October- Nor

## Sept Russia.

November-South Africa, Argentina and Peru.
December-Burmah and Argentina.
ountries of the world has induced over most all the effort for increased national production. What the harvest will be in 1918 is hard to determine as yet, but the May Bulletin of Agricultural and Commercial Statistics, published by the International Institute of Agriculture in Rome, supplies interesting data in this connection. With regard to the areas sown for the season 1917-18 in the northern hemisphere, it states that in all the countries where definite figures are avail-
able, Denmark, France, Great Britain, Luxemburg, United States, British India, Japan, Tunis, areas sown with wheat this year are decidedly larger than those o the previous agricultural season. For the United States winter sowings is about 5 per cent.

## inter sowings is about 5 per cent. Only in Spain and Canada w

decreased, but very slightly (less than 2 sowings de though $13 \%$ in Canada. It must be remembered that the figures deal for Canada with winter wheat only. Summing up the Bulletin says: "We are enabled to state that, both on account of the increase in areas sown,
and of the decidedly favorable condition of the crops on May 1, we have the coming summer, a better crop of food grain than that in 191

## J. H. Grisdale Now Acting Deputy

 tor of the Experimental Farms' system has been appointed Acting Deputy Minister of Agriculture. Inthis position he succeeds Geo. F. O'Halloran. The change has been brought about as a result of removing from the Department of Agriculture the Patents and
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July 11, 1918
THE FARMER'S ADVOCATE.

# Tororito, Montreal, Buffalo, and Other Leading Markets 


 CALVES

Top Price Good Calves

|  | Receipts |  | Top | rice Good Calves |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week |  |  |
| Ending |  | Ending | Ending | Week |  |
| July 4 |  | June 27 |  | 191 |  |
| 1,449. | 1,024 | ..1,451. | \$17.25 | . 815.00 |  |
| 2,157. | 1,390 | 2,388 | 15.00 | 12.50 |  |
| 1,316. | 784 | 1241 | 15.00. | 12.50 |  |
| 204. | 207 | 256 |  | 13. |  |
|  |  |  |  |  |  |



## Market Comments.

Toronto (Union Stock Yards) Trading at the Stock Yards was in-
clined to be quiet at little change in prices clined to be quiet at little change in prices
from the close of the previous week. The from the close of the previous week. The
tendency, however, was for prices to tendency, however, was for prices to go
lower. The market for choice cattle held fairly steady, but common cattle were in slow demand, and in order to dispose of this latter class of stock sacrifices had to be made in many cases. The very good. A run was, on the whole cattle coming of the grass is lacking in finish, and last week's receipts showe many cattle of very inferior breeding,
suitable only for "boned meat", purposes, suitable only for "boned meat" purposes, also there is a limited demand for com mon classes of cattle at present. The
total receipts for the week amounted to orty-seven hundred head, of which number, thirty-three hundred head were on the Monday market. Owing partly feeling in the beef trade, business wa inclined to be slow and several hundred head had to be carried well into the week tor disposal. The top price paid was
$\$ 15.75$ per hundred for a load of heavy $\$ 15.75$ per hundred for a load of heavy
steers from Dutton, Ontario.. sales of heavy sters of good quality
were made at from $\$ 14.50$ to $\$ 15.25$, were made at from 814.50 to $\$ 15.25$
white those of medium quality sold from white those of medium quality sold from
$\$ 13.50$ to $\$ 14$. Of steers weighing from ten hundred to twelve hundred pounds, six head 'weighing eleven hundred and twenty pounds soldat $\$ 15.50$, eieqhteen
head averaging eleven hundred and eighty at $\$ 15.10$, and twenty-two head at $\$ 15$, while most of the sales within these Weights were made from $\$ 13.75$ to $\$ 14.50$. pounds offered, six head of nine hundred and twenty pounds sold at $\$ 14.55$, one load of nine hundred and ninety pounds average were weighed up at $\$ 14.50$, and
the majority of the good loads from $\$ 13$ to \$13.75. Light cattle of medium quality sold from $\$ 11.50$ to $\$ 12.50$, and common eastern cattle from $\$ 8$ to $\$ 10$ per hundred. althoice cows sold mostly from \$11 to \$12, as $\$ 12.50$, Medium wews made as high to $\$ 10.75$ and Medium cows sold from $\$ 10$ $\$ 9.50$ per hindred. Bulls were about steady at from $\$ 11$ to 812 for those of
choice quality $\$ 995$ to $\$ 10.50$ for choice quality, $\$ 9.75$ to $\$ 10.50$ for those
of medium from $\$ 8$ to $\$ 9$ per hundre common bulls for stockers and hundred. The demana at present; feeders were selling from $\$ 11$ to $\$ 11.75$, and good stockers from $\$ 10$ or $\$ 10.50$. A good demand prevailed $\$ 17.25$ per and prices were a trifie stronge veal calves, while those of good quality moved from $\$ 15$ to $\$ 17$; medium from $\$ 13$ to $\$ 14.50$, and common from $\$ 9$ to
Sheep and lamb receipts were lighter han during the previous week, and ment the prevailed in this depart $\$ 14.75$, and heavy from $\$ 11$ to $\$ 13$. Spring ambs met with a good demand at prices ranging from $\$ 20$ to $\$ 22$ per hundred Hog prices again advanced, $\$ 18$ per watered, on Monday and Tuesday. On Wednesday and Thursday prices ranged from $\$ 18.25$ to $\$ 18.50$, at least one deck
TORONTO
(Union Stock Yar

- Avge. Price Rang
$\underset{\text { heavy finished.... }}{\substack{\text { Sters } \\ \text { hen } \\ \hline}}$
Steers
$\mathbf{1 , 0 0 0 - 1 , 2 0 0}$ common.......
Steers
$700-1,000$ good....
common.. 167....... $\$ 14.75$...... Price Range
Bulk Sales


## Top

 $13.50-15.25$ 315.75 Heifers| good. | 409....... 13.75 |
| :---: | :---: |
| fair. | 290...... 12.00....... 11 |
| common...... | 58....... 10.33. |
| good..... | $850 \ldots . . . .11 .21 .$ | $12.75-13.75$ 13.75 14.50

12.50 $13.00 \div 14.00$. 14.75
12.75 Cows good.. Bulls $\qquad$ Canners \& Cutters,. Calve

| Calves | veal...... | 1,448 | 14.52 |
| :---: | :---: | :---: | :---: |
|  | grass...... |  | 8.00 |
| Stockers | good. | 81. | 11.03. |
| 450-800 | fair...... | 204. | 9.78. |
| Feeders | good ... | 60 | 11.93 |
| 800-1,000 | fair...... | 155. | 11.21 |
|  | selects...... | 6,717. | 18.19 |
| Hogs | heavies...... |  | 18.31 |
| . (fed and | lights...... | 159. | 16:86 |
| watered) | ) sows...... | 266. | 16.07 |
|  | stags...... |  | 14 |
| Lambs | good...... | 321. | 20.62 |
|  | common.... |  | 18.00 |
|  | heavy...... | 260. | 11.78 |
| Sheer | light...... | 284. | 13.77 |
|  | common...... | 157. | 8.51 |

, \$18.40 : The outlonk appears decks at $\$ 18.40$. The outlook
to be for a trifle higher market. Of the disposition from the Yards for the week ending June, 27, Canadian packing houses purchased 808 calves, sheep. Local cattle, 6,534 hogs 428 calves 448 butcher cattle, 307 hogs and 396 sheep. Canadian shipments consisted of 47 calves, 49 milch cows, 710 stockers and 144 feeders. Shipments to United States points consisted of 105 calves, 63 butc
feeders.
The total receipts from January 1 to June 34,483 calves, 187,632 hogs, and 167659 sheep; compared to 112,772 cattle, 27,968 calves, 247,934 hogs and 15,550 sheep, received during the corresponding period of 1917.

## Following the compal.

run of the previous comparatively heavy of cattle were very light, shipments being fewer by about twelve hundred and fifty head. There were, however, about one hundred and firty head held buyers and sellers seemed to welcome the opportunity to get the markets cleared up. Prices are rapidly approaching a basis for summer trading and while buyers are predicting
a further adjustment on all grades of light steers, the market closed in a muich previous week. There seem end or the pects of a good outlet for canners and for cattle for boning at from $\$ 5.50$ to $\$ 7.50$ per hundred, and also for good steers that will dress six hundred pounds or over; these were selling around $\$ 14.50$. There was also a demand for at cows at $\$ 9.50$ to $\$ 11$ for the local butcher trade. The supply of light unfished steers, however, seemed out of proportion to the requirements and the mumbers is likely animals in too great effect on prices of other stock Opressing of steers weighing between eleven hundred and twelve hundred sold for $\$ 14.50$ and one load weighing about ten hundred and fifty sold for $\$ 13.75$. The balance of the steers sold from $\$ 8.50$ to $\$ 13$. Fairly fat two-year-old steers weighing ten hundred to ten hundred and fifty pounds sold from $\$ 12,40$ to $\$ 13$. Steere weighing eight hundred and fifty to nine hundred pounds from $\$ 10.50$ to $\$ 11$, and a few head of still lighter steers sold at $\$ 8.50$.
Good cows sold from $\$ 10$ to $\$ 11$ wood cows sold from $\$ 10$ to $\$ 11$. Cows, weighing about ten hundred pounds and
showing some fat sold at average price for cows of lower arade the \$6. One bull weighing fourteen hundred

and fifty pounds, held from the previous week, brought \$11. Fairly fat bulls huigdred pounds sold at to thirteen jority of pounds sold at $\$ 10$. The mastrong animals of dairy were just good. at $\$ 8$. One lot of nice littl and sold heifers sold at 88.50 . The nubletein heifers offered, however, number of varrant any attempt to select them for breeding purposes. Receipts of calyes have been fairly even for some time and prices are being well maintained. No calves were shipped to the United States during the week.
Hogs remained at $\$ 19$ to $\$ 19.25$ off cars, with a slightly firmer feeling at the remain firm at these hrices continue to to have a steadying effect on business generally. The high and low levels are inclined to create a feeling of uncertainty Which is not an advantage to either the producer or to the trade.
Pt. St. Charles, - Of the disposition from the Yards for the week ending June 27, Canadian packing houses and fune butchers purchased 1,248 calves, 36 canners and cutters, 95 bulls, 889 butcher cattle, 987 hogs and 672 lambs. Canadian shipments consisted of 2 calves, 39

## Incorporated 1855

at any of the branches of
Whe Molsons Bank
farmers are welcome

> Local Managers are instructed to consult with them, and by every legitimate means assist in securing the utmost development of our farms,

## Savings Department at all Branches. Interest at Highest Current Ratc.

to United
1,138 calves.
1,138 calves. points consisted of The total receipts from January 1 to June 27, inclusive, were: 16,805 cattle sheen: cmmnarad to 174178 hogs and 7,132 sheep; comnared to 17,448 cattle, 37,018
calves, 43,898 hogs and 6,159 shep received during the corresponding period of 1917.
EAST END.-Of the disposition from the Yards for the week ending June 27, Canadian packing houses and local butchers purchased 1,130 calves, 1,065 butcher cattle, 927 hogs and 493 lambs.
Canadian shipments
consisted milch cows and 112 lambs. Shipments to the United States were made up of 111 calves.
The total receipts from January 1 to June 27 , inclusive, were: 14,996 cattle, 31,492 calves, 19,308 hogs and 7,134 sheep; compared to 18,446 cattle,
30,128 calves, 23,766 sheep, received during the corresponding
period of 1917.

## Buffalo.

Cattle.--Cattle trade was slow, draggy
and weak at Buffalo all of last week. The depression occasioned by the Food Administration's order, limiting beef eating continued to have its adverse effect, as a result of which retail butchers bought
ightly, and the coolers were not freed of beef as well as the kiflers would have liked. The restriction has penetrated every kind of beef, and while the Food
Administration has amended its order Administration has amended its order somewhat, allowing consumption for two
weeks freely, in order to clean up ripe beef that could not be carried along much onger in the coolers, still there is a weak
undercurrent to the general beef situation, and authorities here are not predicting any improvement for the near predicting
least. Offerings were least. Offerings were light here last week
but notwithstanding the thetle not good, generally steady prices prevailing, and anything in the cow line sold very slowly. Best steers ranged from
$\$ 17.50$ to $\$ 17.85$, with best handys running from $\$ 15$ to $\$ 16$ generally, some real fancy ones on the yearling order up to of a load of heavy Canadians, which part been on grain and grass, at $\$ 12.25$. Stocker Bulls strong, milk cows and springers. about steady. Immediate outlook is none too encouraging. Offerings for the week
totaled around 3,000 , as against 5,975 head lat week, and as compared 5,975
5,775 head year ago. Quotations: year ago. Quotations:
Shipping Steers.-N
prime, $\$ 17.25$ to $\$ 18$; fair to good, $\$ 16.50$ $\$ 15$;coarse and common, $\$ 11.50$ to $\$ 12.50$. $\$ 15.50$ to $\$ 16.25$; fair - to goood, $\$ 14.25$ to $\$ 11.25 ;$ common and plain, $\$ 12.50$ to
$\$ 13.25$. Butchering Steers. - Choice heavy,
$\$ 16.75$ to $\$ 17.50$; fair to good, $\$ 15.25$ to to good, best handy, $\$ 1$ to $\$ 14$ to $\$ 15.50$, fair
$\$ 9.50$, light and common $\$ 9.50$ to $\$ 10.50 ;$ yearlings, chommon, prime, $\$ 16$ to $\$ 17$; fair to good, $\$ 13$ to $\$$ Cows and Heifers.- Best heavy heifers, good butchering heifers, $\$ 11$ to $\$ 12.50$;
fair butchering rair butchering heifers, $\$ 9$ to $\$ 10$; com-
mon, $\$ 8$ to $\$ 8.50$; very fancy fat cows,
$\$ 11$ to $\$ 12.25$; best hee fat $\$ 10.2$, best heavy fat cows, $\$ 9.50$
o $\$ 10.50 ;$ good butchering cows, $\$ 9$ to

## Protection and Profit

When money is in a Savings Account in The Merchants Bank, it is absolutely safe from loss, as far as you are concerned. All the time it is here, it is earning interest -so that the bank actually pays you to let it take care of your money. Don't carry unneeded sums on your person or hide them at home. Protect them against loss, theft and fire by opening a savings account
THE MERCHANTS BANK Head Office: Montreah OF CXANADA Established 1884.


$\$ 9.25$; medium to fair, $\$ 8.50$ to $\$ 8.77$
cutters, $\$ 7.25$ to $\$ 7.50$; canners, $\$ 6.75$ to $\$ 7.25$. Buls.-Best heavy, $\$ 11.50$ to $\$ 12$; good butchering, $\$ 10.50$ to $\$ 11$; sausage $\$ 9.50$ to $\$ 10.50$; light bulls, $\$ 7.50$ to $\$ 8.50$; oxen, $\$ 10$ to $\$ 12$.
Stockers and Feeders.-Best feeders
$\mathbf{\$ 1 0}$ to $\$ 10.50$; $\$ 10$ to $\$ 10.50$; common to fair, $\$ 9$ to $\$ 9.75$ best stockers, $\$ 9.50$ to $\$ 10$; fair to good
$\$ 8.75$ to $\$ 9.25$; common, $\$ 7.50$ to $\$ 8$. Milchers and Springers. $\$ 7.50$ to $\$ 8$. small lots, $\$ 100$ to $\$ 140$; in carloads, $\$ 80$ to $\$ 100$; medium to fair, small lots, $\$ 75$ to $\$ 85$; in carloads, $\$ 65$ to $\$ 80$; common, $\$ 45$ to $\$ 50$.
Hogs.-Buffalo had a light run and a good market on the opening day of last while Western markets were lower here ruled steady to fifteen cents higher, the advance being on light grades Yorkers, lights and pigs sold generally at $\$ 18$, and while several decks of handy mixed hogs were placed at this price ocal packers got the bulk of the better as a result of the Monday market being too high compared with other points, ruled from 25 to 40 cents lower. Pigs were on weight grades landed mostly at $\$ 17.60$ Wednesday's market wasty at $\$ 17.60$ Tuesday, and Friday the bulk of all grades moved at $\$ 17.60$. General price for roughs was $\$ 15.25$, and stags ranged
from $\$ 10$ to $\$ 12$. The past week's receiptstotaled 15,600 head, as against 17, 828 head for the week before, and 16,20 head for the same week a year ago. ceedingly light last week, and as a result prices were stronger. Monday spring lambs sold at $\$ 18.75$, top for yearling brought $\$ 14.25$, and ewes went from $\$ 12$ down. Before the week was out spring reached $\$ 16.75$, and while no wether shee were marketed after Monday, Friday ewes were placed as high as $\$ 13$. Receipts head, as compared with 3,205 y 2,000 he week previous, and 3,000 head for Calves eek a year ago.
veals selling at $\$ 18.25$; Tuesday the bulh of the tops moved at $\$ 18$; Wednesday the $\$ 18.75$, and Friday the market was active bulk going at $\$ 18.75$. Good handy cull
grades were placed as high as $\$ 17$ and $\$ 17.50$, and inferior grades went from the past week receipts were 3,200 head, as against 4,293 head for the week before,

## Toronto Produce.

 Yards, West Toronto, Monday, July 8 consisted of 181 cars, 3,235 cattle, 514calves, 1,356 hogs, 538 sheep and lambs. ers bidding $\$ 1$ to $\$ 1.50$ lower. Sheep were steady. Lambs were 25 to 50 cents Hogs, $\$ 18.25$, fed and watered.

## Breadstufts.

Wheat.-Ontario (basis in store Montreal) No. 2 winter, per car lot, $\$ 2.22$.
$\$ 2.231 / 2$; No. 2 northern, $\$ 2.201 / 3$; No. 3 northern, $\$ 2.171 / 2$; No. 4 wheat, $\$ 2.101 / 2$ liam)No. 2 C. W., $861 / 1 \mathrm{c}$. $831 / \mathrm{c}$.: extra No. 1 feed, $831 / \mathrm{c}$. No. 1 .eed Oats.-Ontario, No. 2 white, 80 to 81c., nominal; No. 3 white, 79 c . to 80 c nominal (according to freights outside) Rye (according to freights outside) -
No. 2, \$1.80, nominal.
ellow kiln dried (rack, Toronto)-No. kiln dried, nomina nominal; No. 4 yellow Peas (according to
Peas (according to freights outside)-
Barley (according to freights outside) malting, \$1.24 to \$1.26.
Buckwheat (according to freights out
side) Flour $\$ 1.80$.
War quality, $\$ 10.65$ (prompt shipment) Toronto. Manitoba , Montreal; $\$ 10.65$, bags) war quality, $\$ 10.95$. (Ioronto, new Hay Hay and Millfeed.
14; mixed, $\$ 11$ to $\$ 12$. car lots, $\$ 13$ to Straw.-Car lots, per ton, $\$ 8$ to $\$ 8.50$.
Bran.-Per ton, $\$ 35$; shorts, per Bran.-Per ton, $\$ 35$; shorts, per ton

Prices delives Wool
City Hides.-City butcher hides, green, at, $131 / 2 \mathrm{c}$.; calf skins, green, flat, 30 c . $\$ 6$ to $\$ 7$; sheep, $\$ 3.50$ to $\$ 5.50$. Country Markets.-Beef hides, flat, deacon or bob calf, $\$ 2.25$ to $\$ 2.75$. 13 c . hides, country take-off, No. $1, \$ 6$ horse No. $2, \$ 5$ to $\$ 6 ;$ No. 1 sheep skins, $\$ 2.50$ Tallow.-City rendered stock, \$25. rels, 16 c . to 17 c .; country solid, in barrels, No. $1,15 \mathrm{c}$. to 16 c .; cakes, No. 1, 18c. to
19c.
uality, fine 60 . feece wool, as to fine, 80 c . to 90 c .

## Country Produce.

Butter.-The butter market kept prac tically stationary in price, selling as folmade pound squares, 46 c . to 47 c . per lb. dairy, 40 c . to 42 c . per l . 46 c . per lb .; Oleomargarine, 32 c . to 33 c . per lb . Eggs.-New laid eggs again firmedNo. 1, 46 c . to 47 c . per doz.; selects, 50 c Cheese.-Old, 24c. to 25 c . per lb.; new, Poultry. - Spring chicken receipts were Spring chickens, 45 c declined slightly. 20c. per lb.; fowl, $31 / 2 \mathrm{lbs}$. and under 24 c . per $\mathrm{lb} .$, fowl $31 / 2 \mathrm{lbs}$. to 5 lbs., 26 c .
per $\mathrm{lb} . ;$ fowl, 5 lbs . and over 28 c ducklings, 30 c . per lb .; turkeys, per 1 b .; 30 c.
These quotations are for 1 ive. per lb, These quotations are for live weight,

Wholesale Vegetables and Fruits. off the market; a few Ontare practically selling at $\$ 2.25$ per bag. New received kept quite firm. No. 1's selling at $\$ 8$ | per bbl.; No. 2's at $\$ 6.50$ per bbl. |
| :--- |
| Onions.-California $\$ 8$ | quality were received selling of choice 100 lb . sack , and $\$ 2.75$ to $\$ 3$ per $50-\mathrm{lb}$.

crate.

## Money Makes Money

"Opportunity" means having a little capital to invest at the right time.

The way to get that capital" is to save something each week so that you can make your money work for you when the time comes.

Decide, now, to
let us help you to save. Interest paid every six months.

| Paid up Capital - $6,500,000$ <br> Reserve Fund - . 12,000,000 <br> Resourcea - . . 130,000,000 |
| :---: |
|  |  |
|  |  |

THE BANK OF NOVA SCOTIA



Beans.-Green and wax beans declined, selling at 90 c. to $\$ 1.25$ per $11-q t$. basket. Cabbage. - Canadian cabbage shipments increased materially, selling at $\$ 4.50$ to $\$ 5$ per crate, and $\$ 2$ per hamper.
Carrots.- The bulk of the carrots received so far were very small, selling at 20 c . to 40 c . per dozen bunches. Cucumbers.-Cucumbers continued to command high prices selling at $\$ 3$ to
$\$ 3.25$ per 11-qt basket for No. 1 's and $\$ 2.50$ per 11-qt Straties Strar No. 2 Strawberries.-Strawberries were slightly easier at the beginning of the week
selling at 18 c , to 23 c . per box firming toward the close and selling at 23 c . to 27 c . per box.
Raspberries are now coming in, selling 33 c . to 35 c . per box
Cherries.-Black cherries of choice quality touched a new high water mark $\$ 4$ per 11-qt basket brought as high as down to $\$ 2.50$ pasket, ranging from that $\$ 1.25$ to $\$ 2$ per six-quart basket, Sour cherries have mostly been quite small, selling at 40 c . to 75 c . per six-quart Currants.-Both $\$ 1.50$ per $11-q t$. basket. rants were received, the former selling at $\$ 1.75$ per six-quart basket and 23 c . per box, and the red at $121 / 2 \mathrm{c}$. to 15 c . per box and 75 c . to $\$ 1$ per 6 -quart basket. from 90 c to $\$ 1$ - 6 arge fruit brought per 11 -qt. basket. Small frut, and $\$ 1.75$ 65 c . per 6 -qts. and $\$ 1$ to $\$ 1.25$ per 11 -qts. Tomatoes.-Outside grown tomatoes sold at $\$ 2.75$ to $\$ 3.25$ per 11 -qt. basket for No. 1 grade, and $\$ 2.50$ per 11 -qt. basket for No. 2's; No. 1 hot-house at
25 c . per lb. and No. 2's at 18c. to 20c. per lb.

Cheese Markets.

## Montreal, finest Easterns 22 <br> 23c.; New York, specials $241 / 4 \mathrm{c}$. to $241 / 2 \mathrm{c}$

 average run, 24c.; St. Hyacinthe, Que.Continued on page 1186


## The Answer.

I-prayed, "God keep him safe". He was That fair-ha
eager in the cause-filled with desire To join the fighting line
And every morril trayed, and every eve In said, "Keep safe my boy Ind, never doubting Hi ,
panger,
of faith and joy.

A message came that burned upon my In words of living fire;
I prayed, "God keep, him safe".-"Killed while in action,"
But while my heart cried out there came a voice,
So gentle it brought rest
kept thim safe,
He is with Me.-'t is best.

## Letters From Europe.

Berne, Switz., May 7, 1918 B Berne, Switz., May 7, 1918. Berne crammed with
and full of dust, and rumors Berne so crowded that it is almost impossible to get a room. Guests in hotels have been obliged to sleep in the public parlors, and even in the bathrooms commodation in the pensions as the rates are lower and the guests more o less permanent. One must apply week to get a room in a pension and then be days of selection; they are days of take what-you-can-get and be thankful for it Many of the foreign diplomats are put to great inconvenience in finding home for their families owing to the lack o
suitable apartments and houses in Berne and the exorbitant rents demanded Many people have been obliged to find accommodation out of town in the villages roundabout, -some have even gone as so that their children could attend the schools there.
The price of living in Berne has enAt a rough guess I should say, it had allike kites on a windy day. Clothing is very expensive and materials shoddy.
Ready-made clothing is especially unsatisfactory; at the first wearing the buttons pop off, the seams burst, and the wearer, naturally, flies into a righteous luxury. New ones suggest untold wealth on the part of the possessor; old ones are treated with great tenderness and respect and everything possible is done to prolong their days of usefulness. Owing to the fabulous prices demanded for new shoes the war-sandal has made its appearance and is almost exclusively worn now by has a wooden sole, leather straps, and is jointed under the instep. Five active children in sandals clattering about on a stone pavement make more noise than a regiment of Swiss soldiers. One almost needs cotton in the ears when prowling about the streets in the poorer districts, Stockings- thin
Stockings-thin, cotton, cobwebby
things cost about a dollar, and lead a things cost about a dollar, and lead a darned and darned with needles and with tongues. the tea-rooms of Berne are crowded every afternoon-except one day in the week when they are all closed. A "portion" of
tea now costs one franc (it used to be
just half that amount), and cakes the size of a postage stamp, and not much thicker, cost 25 centimes. city city, the high cost of living, the noise, the
dust and the racket, there is a new feature of life in Berne which adds to the egeneral unpleasantness, and that is the vigilance of the police. Now that they have full control of all the foreigners in Switzerland, new rules and regulations are cropping up all the time. Berne being the capital the rules are particularly
rigid.
Ali strangers arriving in Berné from a foreign country must report at the coming from other parts of Switzerland are allowed eight. days grace. At the police station they must show their
identity papers and give any information Identity papers and give any information
required,
including their reasons for required, includi
being in Berne.
being in Berne.
The police stati
The It is alwan is a most यnpleasant place. It is always full of people, one there isn't a chair on which to flop. The day I reported I was the only lady in the line. There were twenty or thirty men, of all sorts and conditions ornaments. The man immediately behind me looked like a Russian Bolshevik and had the unpleasant odor of the unwashed. But that he had aspirations in the line of cleanliness was evident for he spent the waiting time manicuring his nails, an operation that seemed to neces-
sitate keeping his mouth open and breathsitate keeping his mouth open and breath-florid-faced German. police
police official.
'Where are you going?'
To Locarno." here for?"
"My health. y"
"How long do you expect to remain?"

> "Five dys.

Ris apt to meet anybody in Berne.

RUMORS are as thick in Berne as Thes around a honey-pot in July, reports that one feels as if he were living on top of a volcano that might at any moment begin to belch revolutions there is one consoling feature-the begins to doubt them all Still they make one very ineasy, The last and most sensational is that all foreigners who are not in Switzerland for some specia purpose must leave the country. Whether this rumor is true or not I cannot say, but this I do know that the expulsiot process has already started in Berne the city every day sot only people out of and refractaires, but also nice, respect able people who have lived here many years. Various reasons are advance o account for these stringent measure on the part of the Swiss police. It is said they want to rid Berne of the idle popula tion and make room for the people who is on account of the food problem. is said it is just a scheme to drive the Hoating population out of Berne and fil up the empty hotels in other towns: Whatever the real reason may be there s certainly an exodus, and everybody is asking, what next?

May 27th.

$I^{F}$any person thinks it is easy to get a Bread Card
undeceive him
I got one to-day and I know all about It is the first time I have applied persont y for $\mathrm{a}-\mathrm{B} . \mathrm{C}$. as it is customary in hotel or the Concierge to attend to the re newal of the Cards for all the guests. This is usually done a few days before the expiration of the month, as new Card are issued each month.
To-day the hotel manager called for the cards.


Scene on the Principal Street of Berne.
Notice the old woman sawing wood.

Near the top of the line I caught that seemed to have an old familiar look. Where had I seen it before? I couldn't remember.

When I presented mine he demanded ", What.
"The Police Control-card", he said. "I haven't any, gazing at me in amazemen No. I never had anything excep this."
"Most extraordinary!", he said, "Didn't you have one in Vevey?"
hotel that I know of. Perhaps the "Well-you can't get a new B. C. in Berne without a Control-card."
"What shall I do then?"
He looked perplexed. "Either send your B.C. to Vevey to be renewed or
take your identity papers to the police
station here and get an order from the re As the time is short I advise you to go to the police station."
de So, I went, armed with my Permis de Sejour. Although I got there early, the corner of the room reserved for applicants was packed. This corner is
fenced off from the rest of the room by a high wooden railing. As there isil. a place to sit down one has to stand around with a watchful eye and wedge into the first promising opening near the railing. This achieved you cling desperately to your position, advancine little by little till near enough to reach anchor yourself with both hands. There you remain till the Mighty-Personage on the other side deigns to notice you. This he does, apparently, quite at ran"It took me half an hour to get to the "front", and another half hour to catch his eye.
looked I explained my predicament, he Permis de Sejo critically, examined my yawned, strolled asked me some questions sulted a big book coss the a gain, called over a few questions to me, conferred with a man at a desk, wrote something in German on my Permis de Sejour, gave centimes-for what, I charged me fifty ways orSwiss officials are most mysterious. Then I went in search of the Bread Bureau which was a couple of blocks away on the third floor of a school building. It was a hot, dusty, windy day, and the air was full of fluify stuff from The doors on both sides of the building were open, so that every few minutes whirlwinds of dust and fluff would fill the hall to suffocation, I looked at the crowd on the stairs, then at my watch, and decided to postpone the struggle I returned hefore
found the stairs just the opening hour and found the stairs just the same as when I
left, so there was nothing to do but join the procession, Each step accommodated six people. It took nearly an hour to get to the third story. There, a police guard was stationed to keep the crowd in check. Every twenty minutes or so a bunch of people-would be let into tributed. As soon as the door was opened all was confusion and rush and riot. I seemed to be punched by twenty-five sharp elbows at the same time. My feet
were trampled on, I was jostled and were trampled on, I was jostled and pushed till I gasped for breath. Inside the room it was not much better. Every person dashed frantically towards the tables where the tickets were given out.
No sooner did I get a -place than I was roughly shouldered out of it. I began to despair of ever getting a B. C. Visions of a breadless June rose before me. Then I plucked up courage for another attempt, and was just endeavoring to wedge myself in beside a large, fat woman, when she That was luck.
hat was luck.
Bread Card, a Fat Card that table with a and a burning desire to punch somebody. When I emerged from the building I bore the marks of conflict. My hair was stringing over my face, my hat on one ear, my sleeve ripped at the shoulder, and my jacket pocket half off (it caught is enough for me. Hereafter the Concierge may take my cards.

Twarm weather of the last few weeks has brought out summer Bernese belles are parading the streets in the gauziest of neckless, almost-sleeve-less robes, whose brevity leaves nothing to the magination regarding ankies. To make are large and floppy and vivid. I have
never been any place where the native revealed so much of their anatomy to the public gaze, as in Berne. At the various sport grounds scattered over the town the boys and men take their exercises in the open air, wearing nothing the sun and air is an absolute crase here the sun and air is an absolute craze here athletic park, and I often watch the men exercising from the bridge. One day ventured down to the river road and took a snap-shot. A Berne gentleman told me that in some of the Swiss cities they are not allowed to exercise in public places in this unclothed statewhich he considered very narrow-minded and prudish.

THE Bread Bureau in Berne (British Red Cross) is now sending bread to many. So much is needed now that it has to be made in several other cities besides Berne. For the summer months French biscuits are being substituted as they keep better in warm weather. An expert from England has been here teaching the bakers how to make them. them as well as bread is evident from some of the reply-cards, received.
One chap said "Don't send me any more biscu
Another fellow, who evidently had teeth said: "Kiss the packer", thinking, suppose, that she was young and pretty. But as she happened to be somewhere near sixty the kiss was not delivered.

## A Historical Possession.

$A^{N \text { interesting setiter from one of of }}$ Leach, witten while on furlough in Scotland, tells of having traced Edinburgh, the valuable heirloom for so many generations the possession of the with them to this new land
In 1876 the late Alexander Dewar, Plympton township, then the possessor, was approached by a representative of that historical society who prevailed upon
Mr. Dewar to assign the antiquity for a Mr. Dewar to assign the antiquity for a for safe keeping, "there to remain for all time to come for the use, benefit and enjoyment of the Scottish nation." This relic called the "Quigrich or Crozier of St. Fillan" has remained in the Dewar family since the days of Robert Bruce, descending from father to son
Only one other Scottish Crozier is
know to exist. This Quigrich is the head of a pastoral staff, nine inches high and of a pastoral staff, nine inches high and enclosing an earlier crozier head of bronze or copper, and is distinctive of the
Celtic church. The original Quigrich or Coygerach was given to a progenitor of one Finlay Jore (Dewar) of the parish of Glendochart. A common term in those early days being (Dewar) "Jore Cogerach" - keeper of the Crozier of
St. Fillan. This office gave the keeper great power while within the bounds of great power while within the bounds of
Scotland, so long as he bore the Quigrich which stood for "obedience to the law which stood for obedience to the law justice. is interesting to note how with
changing years and generations, the family name "Jore" has become changed -more in spelling than pronunciationpresent day. Dewar resides still on the Mr. John Dewar resides still on the
family homestead, Plympton, and had Scottish society by his father would now be "keeper of the Crozier", which in due time would decend to his son Dewar name in the antiquarium with other historical treasures, and during present conditions is securely packed as a precaution against possible damage from air raids. Pte. Leach urges the present generation of Dewar to a greater realiza-
tion of the value and significance of the quigrich or Crozier of St. Fillan.

## Tommy.-'Ow far is it to the camp <br> mate? Native.-About foive miles, as the crow flies. <br> Tommy,-Well, 'ow far is it supposin

ing rifle and kit-bag?

## Hope's Quiet Hour.

## The Nearest of Kin.

He stretched forth His hand toward His discirles and soid, Rehold $\mathbf{M}_{3}$ shall do the will of My Father which is in heaven, the same is My brother and sister, and mother.-S. Matt. 12:49,50.

This is the gospel of labor,Ring it, ye bells of the kirk! The Lord of Love came down from above To live with the men who work.
HENRY VAN DYKE.


## Athletes Exercising Under the Kirchenfeld Bridge

## This bridge has three arches. The central arch spans the river, and is about 125 feet hich

The only Man who was able to choose His own relatives was Jesus of Nazareth. can, with the brothers, sisters and other relatives God has seen fit to give us In some cases this must be a very difficult business; but perhaps even when the hard to.get on with-it might make things easier if you remembered that God Himself linked your life with theirs. It is His intention that you should accept them as His gift to you, giving them towards you is anything but brotherly ove is bound to be victorious in the end, nd it is always possible to overcome evil with good-though the victory may not be But our Lord chose His family and
and "blessed among women.
yet a throws Authority than even an archanges throws open that invites every woman to enter into and invites every woman to enter into that most sacred relation with Him. He has said-who shall dare to doabt His God is His "mother". The way is made plain. It is our own fault if we remain plain. It is our own

It is an inspiring thought that the Lord of Love has chosen us to be in constant association with Himself. We are often told to "choose Christ",-and of course we should choose Him as our Master,but those first disciples were chosen by have Ye have, not chosen "Me, but have chosen you", He said: He calech
unto Him whom He would: and they came unto Him. And He ordained twelve,
what He said when He celled Judas "friend" when Judas was proving himself the blackest of enemies. The friendship God for men is too often one-sided.
But we were talking of His neares earthly relations-where can we find them? Read the text for to-day, One ably drawn into the family of Christ.
ably drawn into the family of Christ.
"I have seen men risk their lives, and forefeit them, in an effort to rescue a comrade. I have seen them give place to one another when wounded, both in matters of dressing and of stretcher to bear them back to safety. I have seen comrade cling to comrade through the moments of supreme peril, each refusing to save himself unless he might win safety for the other. And, in seeing Ihese things, what in
He easily recognized the family likeness in these soldiers, many of them religion. who made no profession of religion. Our Lord does not say that the people who talk about their religion are near of kin to Him-it is those who
"do" the will of God. In the day of judgment there will be a separation made between those who have made use of their many opportunities of showing kindness and those who have let them slip. The other day a patient suffererwas talking religion to me. A visitor was the time sion to me day, and I was very thirsty and I couldn't help. thinking, all the time she was talling I was thirsty; and ye gave me no drink! It is not any formula of religious profession that can bring us into the Holy Family. The Judge is our Friend, and yet He has said: "Not every one that saith unto Me, Lord, Lord, shall enter into the kingdom of heaven; but he that doeth the will of My Father which is in heaven. Many will say to Me in that day, Lord, Lord, have we not prophesied in Thy name? and in Thy name have cast wonderful worts? And name done many unto them, I never thew 1 will profes from Me, ye that work iniquity.
St. James defines religion in this summary fashion: "Pure religion and undefiled before God and the Father is this, to visit the fatherless and widnws in their affliction, and to keep himself unspotted from the worid - kindness, and purity of thought and life. Note the family likeness to Him Who went about doing good", and who was without pot
In these days many barriers have been brory kind of religiof all ranks, and meet as close comrades in no religion Women drop their exclusiveness and wot together, in city and in country, in Patriotic Societies. Too often it seems as those who profess to belong to the family of Christ are less ready for self denying service then others who make no Itigious profession.
It is a terrible thing to find that some who reverence the Lord of the Church s. Divine, are moved to send out in print such a condemnation of His church officer", These are his ords "A amateu ur days the Church of Chrds: "Again in he only God with power in the huried eart beneath a ous, empty ceremonial, and a paralysing mass of sterile, useless dogma
The Church is the Bride of Christ, the family and household of God. It is her business in the world to bear joyful witness to His living presence in our midst. In we are not serving our Master
by showing kindness to the least of $H$ is by showing kindness to the least of His something for it is time we began to do something for others. Can we be near Family live Elder Brother if there is "He deigned forget His own Eternal Being
He loved and served and toiled, the end foreseeing-
too low for such as I 6 West Ave., Toronto.

A Fifty-fifty Irishman.-In, his book
From Gallipoli to Bagdad," "Padre" William Ewing tells the story of a burly Irishman brought into the field-hospital suffering from many wounds
"What are you?" asked the doctor
"Sure, I'm half an Irishman;" "Hol and ther half" Chronicle-Telegraph.

July 11, 1918
THE FARMER'S ADVOCATE.

The Ingle Nook.
TRules for correspondence in this and other



He you ever thought of our
responsibility in using $W$ ords? So-and-so is "ungenerou say carelessly, or "conceited",or "a stick," and so on. Afterwards we find, perhaps, that the one of whom we spoke is really most liberal, not conceited at all, o very interesting. So far as we are concerned the wrong has been righted, but they gone on thinking ill of this mis they gone on thinking ill of this mis to be our friend?-thinking ill of him or her because of our hasty words.
It is so hard to judge superficially, evidence may go on and on until they work real harm on and on until they mortification and sorrow, if not worse.
thought of this, the other day, when reading Philp. Gibbs ${ }^{2}$ words about th American soldiers. You know as well to thinking the Americans boastfu 'Oh they are blow-hards'" we say wit an air that dismisses the whole matter. Well, perhaps they are given to e
tolling the "United States of America" tolling the "United States of America" when they are out of their own country
but might we not also be given a little to talking overmuch of Canada if we were out of it, and especially if we were a
bit homesick?
At any rate here is what Philip Gibbs says of the United States soldiers whom
he met overseas. He is speaking of the
and perhaps by many of them for us, happened to be country and theirs ago.
Does it not seem strange that it took another war to put us side by side and very great thing that is-Yet what a peoples, living side by side on this two inent, should love one another! Don't you see how much it means, and how much easier it is going to be to smooth over difficulties in the future? For how comparatively easily complications are stirred up between two peoples filled matter how foolish and each other, no udice may be-And so very often preudices are based on nothing stronger than just "sentimentality. Ah , but we hould look well to our sentimentalities! Now, to return to our responsibility in the using of words
You know as well as I the slighting suggestiveness with which the words "Chink" and "Dago" are used on this continent. But let me-tell you this,-if you hear anyone using either of these - epithets-in a contemptuous way, you may safely put that person down as being, on the point of nations at least, hugely ignorant. Of the Orientals enough has been said in previous issues of this depare superfluous. The Italians, by their here superfluous. The Italians, by their by their great feats in engineering and airplane construction have sufficiently airplane construction have sumficated themselves. Never forget that the better class of Italians are a cultured, musical, delightful people, and that few countries in the world have done more for the sciences pertaining to "the soil". It is in Rome that has been founded the culture.
shelter at the back of the house? One o the most attractive extensions of the kind that I have ever seen was buil by. a woman, with her two hands, a saw, hammer, nails and spade for digging the post-holes. The openwork walls wer were made of cedar branches with the bark left on, and formed a splendid support for the morning-glories and With such a porch part of the family may choose even to sleep out of doors which will be exceedingly good for them although they may need a tent of mos quito netting to put about the bed
Or are the mosquitoes over for this year?-Apropos of them I read a skit the other day, which I must pass on to you. think it came from Judge.

The Sleeter is a bird of prey
About three-eights of it is beal
About three-eights of it is beak,
And five-eights appetite,
And nineteents

TUST one more word,
will not need it at all
will not need it at all.
oung if any inexperienced city folk o young students have gone out to you to with them at first Do not expect that before they have been taught how and before their muscles are hardened the will be able to do as much and as well as professional farmers. Just as reasonably you might expect to come into a city office and do the work there proficiently right off the bat. Most of these young people are really anxious to "do. thei bit", although, of course, a few of them may not come up to the mark, but
how patice.
I am sure, however, that the most of
of standard flour, West of Port Arthur substitute to four pounds whear pound The brand "Victory Bread" is to be affixed to every loaf (baker's) as be guarantee that the prescribed amounts of substitutes for standard wheat flour are being included therein. Bread not bearing this label may be seized, and any person violating the regulation is liable on conviction to a penalty not exceeding * $\$ 1,000$ and not less than $\$ 100$, or inprisonment for a period not exceeding three monts, cipality if the municipal officer secures the conviction, or to the Provincial Treas the where a Provincial Officer secures the conviction.

## A Merry Jingle.

Just' as I finished writing the last words about farm helpers, sorneone came in with the following, the joint effort of a group of farmerettes who are evidently going at their work in the right Spirit and getuing some "Tom Carpenter" is a prime favorite.
It chanced to be on Thursday, in the That a wagon full of farmerettes came down Winona way. They quickly donned their overalls and "We velled out blithe and gay, a dollar ten a day.

At eight o'clock next morning, 'twas seven by the sun,
They started tying grape vines and at first they thonght it fun,
But long before the noonday sun was
shining overhead.

## 

The Funeral of Nursing Sister Margaret Lowe Who Died of Wounds Received During an Air Raid by the Germans:
anxiety with which both British and
French looked for the arrival of "Les Americains
"'Then at last we heard that some of the line and doing well, and then we saw with our own eyes some men in
khaki, with stiff collars unlike ours, and canvas gaiters and slouch hats, and we said, "By Jove, those are Americans!"
Presently we met quiet fellows in United Presently we met quiet fellows in united
States uniforms. who sat listening to and asking penations of Britisin ohers wanting to know things. They were the outposts of the American army. I met some of these advance guards and found to-face with local technique to which they were strange, among our men who had
learnt it by painful lessons. I found them keen and alert and businesslike, quick to see the essential truth of things,
taking it all seriously, making mental laking it ail seriously, making mental
notes at great speed, yet with an easy way that made them good comrades at the mess table, and with a sense of humor refreshing in its incisiveness" . The
higher officers the continues, impressed him by their "fine simplicity of thought and speech", and he concludes the words of praise by saying that the Americans,
on the whole are on the whole, are "rike the e canadians",
which does not "go down" badly with us,

So much for the summing up of that great-souled Englishman, Philip Gibbs, listening to? Don't they make you just ike the American soldiers? And that is exactly as it should be. things on this continent has been the petty prejudice entertained by many of
us for the people of the United States,

Sl let us be careful with our words.
They spread far and wide go down the centuries. You have heard, have you not, of the woman who went to a priest to confers that she had
spoken slander? "Go" said he, "and scatter thistle seed to the four winds of heaven, then return to me." She did as she was bidden. "Now", said the priest, "go and gather up all the seed you have scatered. "Then"; he said, "No beatter can she said. "Then", he said, "No better can
you recall the words you have spolen ",

S
O far we have had but little warm weather this year, but we may have September, so it is well to to prepare to some extent for out-of-door living; at least we will do so if we follow the very good example of many, people in the
cities and of our cousins everywhere cities and of our cousins everywhere
"across the border". "We eat, sleep. across the border". "We eat, sleep, calls, give teas and auction parties and even get married on the porch' "Once a porch party was a rare and exciting a event; now life in the country is a Perpetual Porch Party with three

## All this

All this presupposes a good wide apon which tables and a hammock or two. Idaresay that by this time Miss Northend is giving knitting parties instead of teas and auctions.
At all events scientists have proved that constant out-of-doors living nigh why live indoors in summer? If you haven't a porch "big enough, and can't
afford to build a "good" one at the front, why not put up some sort of temporary
light, and need no jogging in regard to $\begin{gathered}\text { JuNIA. }\end{gathered}$

## The New Food Regulations

All bread made from standard wheat flour must now be mixed with a percentage of substitutes for wheat flour. This is Canadect of a recent order issued by the Canada Food Board in a vigorous effor to save the efxisting wheat supplies so as to make them last out until the wheat mills and the new flour is distributed for consumption.
The new Order defines substitutes or wheat as corn, oats, barley, rice, rye, sameat, tapioca and any mixture meal, rolled oats, corn meal, corn starch, meal, rolled oats, corn meal, corn starch, meal. to July 15th, from July 1st, one pound of wheat substitute must be used by all bakers, confectioners and public eating-places with every nine pounds of
standard wheat flour in making any standard wheat flour in making any
bakers' products, and the same rule hall products, who bakes bread, rolls or pastry fo private consumption. On and after July 15th, in all Canada east of Port Arthur the proportion is to be increased to one pound with every four. In Port Arthur and the West this increase is still in abeyance, preceding the report on the It is provided in this Order
and after July 15th no licensed deale shall sell for private consumption east of but not including Port Arthur, white flour to any person who does not purchase from him substitutes in the proportion of not less than one pound to two pounds

Our merry bunch of farmerettes would fain have been in bed

One day good Mr. Carpenter said, "Girls, I'll have to get the hoes and set you something else to do,
There are rows and rows of strawberries that need attending to;
So take your hoes and bend your backs,
They pulled and tugged and struggled and hoed for many a day; heard the farmer say
'You're, doing splendfád work, girls, And You've surely earned your pay ," with a dollar ten a day made happy

Next came tomato planting, they were fifty thousand strong;
The egg plants and the peppers were And still they're working, working, no idling or shirking:
And often at the close of day you'll hear this song:

Keep the home soil turning, while the Heed the call for food and till the mellow
There's a sitver lining, through the dark clouds shining;
Turn the dark clods o'er and o'er till the boys come home.

## Salmon Loaf.

For E. R, Dufferin Co., Ont
baked Salmon Loaf.- One can salmon, cracker crumbs (bread crumbs will do),

## Silver Gloss Slarch



2 Ccups cream sauce. Grease a goodsized mould with butter, sprinkle with potatoes. Drain the oil from the salmon and remove bones, season with pepper and salt and pack in the mould. Cover with potatoes and then with buttered cracker crumbs. Bake half an hour in a fairly hot oven and serve with the cream sauce to which has been added chopped parsley. For another receipe see elsewhere in this issue. . T
you for your complimentary words.

## From a Shut in Friend.

To all the Dear Ingle Nook Friendswill write you again to bid you good day Have tried to write you so often, but enjoying reading some but have been vocates and what splendid pieces were in them then in the Nook as well as now, only few of the old friends write to Nook now. Faithful Junia and Hope never forsake us. How they cheer and help
us all like the cheery flowers, good old stand-bys. This has been fine spring so far. We have been blessed with useful showers of rain as well as glorious sunfor us still. There is not so much to write about now. The world is full of trouble many loved ones are gone to the war How I wish to be able to go and cheer
those left behind, but dears we all can those left behind, but dears we all can
tell it to Jesus and feel He will watch

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 best investment you ever made. Saves gasoline. Costs nothing for upkeep. Always ready for instant use.
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over the loved ones. Let us all nray and hope for the best, hoping the war will soon end. "Let not your hearts be troubled. Surely the Master careth for each and all, bless each one.
Only just tell Jesus thy greatest grief And whisper to Him thy care, May you find just to tell Him does bring whene

Well now for a reply to my queries Please can you tell me what to do for nasturtiums that seem to have lice on them? They come on in bunches real black, tiny at first but the flowers do not do well when they are on the stem. What are they and the cure for them? What good ideas the Advocate gives us all. I have not been able to write you for so long. I feel this letter will be a failure. Kindly forgive all this time. I wonder being dull. Well just try cutting through being dull. Well just try cutting through a piece. Just keep a strip of it handy and cut through it and find scissors greatly improved. Take a soft cloth and put a few drops of kerosene on a rag and rub your patent leather shoes and see the fine shine after it. Wishing one and all a pleasant summer. Dear Hope, many thanks for your useful Easter gift and to all who so kindly write to me and help me in so many ways. As I cannot write to the kind friends, especially those at Bolton, please accept my sincere thanks for all kindness to the Lass. much help and cheer given me through much help and cheer given me through comes to cheer and instruct us all. How much, dear Junia, we appreciate your help too. My flowers are pretty now. God is still showering us with many blessings, I know He cares for me, may my life show to the world around what a dear Jesus I have found.
With best wishes to all, gratefully,
Your shut in friend,
Lankshire Lass.
Wellington Co. Thank you for your kind words. Any of the nicotine mixtures, made for the
purpose, will soon rout the lice from your nasturtiums. Forcible spraying with can get the nicotine.

## War Time Cookery.

Rice Pudding.-Four cups milk, 5 tablespoons rice, 5 tablespoons honey or corn syrup, $1 / 2$ teaspoon salt, grated rind of half a lemon or flavoring of nutmeg. Wash the rice, put in the milk, etc., and bake 3 hours or more in a slow oven,
stirring occasionally at first. stirring occasionally at first.
Indran Pudding.-Twelve tablespoons cornmeat, 4 cups mik, teaspoon or Heat the milk and sift in the cornmeal add salt and molasses. Put into buttered baking cups, set in a pan of water and bake slowly about 2 hours,
Boiled Custard.-Four cups milk, yolks of 6 eggs, $1 / 2$ cup honey or corn syrup, $1 / 2$ teaspoon salt, flavoring. Heat the milk in a double boiler. Beat the eggs and sweetening a little and pour the mil over them. Heat in double boiler until it thickens, stirring all the time. Coo and flavor. If it curdes remove from the sto If the whites of eggs are beate beater. If the whift sweetened covered dish of water which is hot but not boiling then placed on top of the custard, the resulting dish will be Floating Island. Decorate with dots of jelly. Tapioca Custard. Half cup pear tapioca, 2 cups milk, 2 egg yoiks, $1 / 2$ cup honey or corn syrup, pinch salt, flavoring Soak the tapioca for 1 or 2 hours the drain and cook the mik until trans parent, using a double boiler. Cool an lavor. Serve with cream.
Quick Buckwheat Griddle Cakes.-Sift ogether 1 cup buckwheat flour, $1 / 2$ tea teaspoons baking powder. Add 1 cup cold water and 3 tablespoons sweet milk, mixed together, and stir to a smooth batter. Bake at once on a hot, greased griddle.
Jellied Left-Over Chicken.- Half fill a mould with bits of chicken, adding hardboiled egg or anything else that may be iked. Heat the broth in which the chicken was boiled, and to it add one third package plain gelatine sortened in
issolved pour into the mould and let stiffen on ice or in cold water. Serve with lettuce and salad dressing, or with garden cress, The egs looks pretty: put in first around the mould.
Potato Flowr and Honey Cake.- Boil $3 / 2$ cup each of honey and granulated sugar to the soft ball stage-that is to form a soft ball when dropped in cold water. Have ready the yollss of 5 eggs and also the whites, beaten well separately Gradually beat the syrup into the yolks add the grated rind and juice of $1 / 2$ lemon, then fold in $1 / 2$ cup potato flour and the egb whites. 50 minutes.
Honey Frosting.- Boil $1 / 2$ cup honey and 11 tablespoon corn syrup together until almost candying point, then pour in a fine stream on the white om an egg melted chocolate and flavoring of vanilla after beating in the honey.
War Pastry.-Sift together 3 cups barley or rye flour, $3 / 1 /$ cup wheat four, 1 teaspoon salt, 2 teaspoons baking powder aditle cup shortening, then water for a pastry for deep fruit pies.
Mock Pumpkin. Pie.- Mix ${ }^{1}$ cup cornmeal with 2 cups water and boil until very thick. Add a pinch of salt and cup well and dust with flour until completely covered, repeating in a few minutes, To the corn meal add 2 eggs, brown sugar to sweeten, $1 / 2$ teaspoons ground cinnamon, teaspoon ginger and another cup of milk. Put in the pans, pour a little cream over the top and bake in a quick oven. Neither pumpkin nor crust is needed, yet the pie is very good.
Celery and Onions. - Cook separately, then combine and cover with cream sauce. Potatoes With Cheese Sauce.- Mash potatoes, seasoping nicely and adding in a mound with a hollow in the center, then pour over all a sauce made as
follows: Melt 6 tablespoons butter, and follows: Melt 6 tablespoons butter, and stir in 4 tablespoons grated cheese. Pour over yolks of 2 eggs, beating all the time. in the oven until the sauce thickens in the center, from 20 to 30 minutes.
A Meat Substitute.- Beat up an egg to each cup of rich milk, season well, add chopped greens or any other vegetable with potatoes for Sunday dinner.
Inexpensive Chocolate Cake.- One eggyolk, 1 cup sugar, 2 tablespoons melted butking powder and 1 scant teaspoon sood stirred in $11 /$ cups flour. Melt 2 squares unsweetened chocolate in $1 /$ cup hot water until thick, and add to the cake mixture. Then add $1 / 2$ teaspoon vanilla. Bake in a loaf or in layers using whipped cream on top and between. Or a custard may be made for between of $11 / 4$ cup sugar, $1 / 4$
cup water, $1 / 4$ cup milk, 1 square melted chocolate, $11 / 2$ tablespoons flour, all cooked
Nut Ginger Cake. - Three and onehalf cups sifted flour, 1 cup black molasses milk, $1 / 2$ cup chopped figs $1 / 2$ cup nut milk, $1 / 2$ cup chopped figs, $1 / 2$ cup nut baking powder. Sift baking powder with the flour and dissolve the soda in the buttermilk. Cream butter and sugar together, add eggs, one at a time, (not previously beaten), then add by degrees
half the flour. Next add the molasses heated, and the rest of the flour, gradually, beating all the time. Stir in nuts and figs, flavor with almond extract and bake in shaliow, square pans. milk, thicken very slightly Sald rich starch and sweeten with honey. When cool add crushed raspberries and a little lemon extract. Freeze as usual.
Fish Loaf. Melt 2 or 3 tablespoons pork drippings and brown in it 1 finely chopped onion. Pour this over bread or cracker crumbs and add enough hot water to make a moist dressing, seasoning well. or any kind of cooked fish, and dressing, alternately, having the dressing on top and bottom. Bake in the oven $1 / 2$ hour radiators, fcr an hour or longer. Serve hot with tomato sauce or cream sauce Tartare Sauce (To serve with fish) To a cup of mayonnaise dressing beat pickles, onions and 1 tablespoon finely chopped parsley.

## THE FARMER'S ADVOCATE

## Made of Bran.

Bran Cookies.-One-half teaspoon soda, 1 teaspoon ginger, 1 teaspoon cinnamon, 1/2 teaspoon cloves, 3 cups bran, $1 / 2$ cup sugar, $1 / 2$ cup molasses, $1 / 2$ cup milk, $1 / 2$ cup shortening. Aift spices into the bran (the shortening melted) and mix well Drop from a spoon on a buttered pan and bake about 15 minutes.
Bran. Biscuits.- One cup bran, 2 cups sifted flour, 5 level teaspoons 4 baking powder, $1 / 2$ teaspoon salt, 2 to 4. tablespoons shortening, 1 cup milk. Put bran in a mixing bowl, sift in the
other dry ingredients, and work in the other dry ingredients, and work in the shortening. Gradually add the milk and mix with a knife to a soft dough. A little more liquid may be added if necessary. a knife to coat with four then knead slightly Roll out about $3 /$ inch thick cut in rounds, brush over with melted butter and bake 15 minutes.
Bran Bread.-One cup whole wheat flour, 1 quart bran (loose), 1 cup barley Aour, 1 pint buttermilk, $1 / 2$ cup molasses, solve soda in buttermilk. Stir all together solve soda in buttermilk. Stir all together,
make into a shallow loaf and bake about make into
an hour.
Another Bran Bread.- One cake compressed yeast, $1 / 4$ cup lukewarm shortening, $1 / 2$ teaspon salt, 1 teaspoon molasses or suyar, 3 cups whole wheat flour or white flour, bran, about 3 cups Blend yeast in the water: dissolve the shortening in the warm milk; mix all the liquids, etc., then stir in the flour and bran mixed. Knead until smooth, cove and let stand until doubled in bulk, then cut down and shape into a loaf. When again light bake 1 hour.

The Scrap Bag.
To Keep Refrigerator Sweet Keep a lump of charcoal on the re rigerator shelves to keep down odors dry thoroughly.

## Keeping Dried Products.

Glass sealers are good for keeping dried fruit and vegetables in, as it is easy to inspect them for the development of insects, which will necessitate reheating the oven at once. Always keep dried moisture readily.

For Green Peas in Fall.
Peas and beans planted now will ensure a crop of green peas and beans in the fall: If the soil is dry soak it when planting, and if lice appear on the young plants spray with nicotime. Spinach and beets may be planted also

Care of Enamel Pans
Place new enamel pans in a large dish of water and let come to a boil, then set aside to cool, and the pans will last much longer without chipping.

Making Stockings Last.
If you want to save wear on your stockings glue a scrap of velvet smoothly on the inside of each heel.

Making Shoes Last.
Dip the soles of new shoes several times in hot tallow and they will wear longer and help to keep out the wet.

Cleaning Silver (Excellent).
Dissolve 1 tablespoon soda and 1 tablespoon salt in 5 quarts boiling water Place the of galvanized iron or aluminum. to 5 minutes then remove and wash the silver in hot soap suds. The pan must be either of the above mentioned, as it is some chemical action that does the wor you the pan

Using Up Lettuce
Do not waste lettuce that is becoming serve on hot buttered it as "greens" and water to prevent burning should be used, adding a little more if necessary, half done add salt, a pinch of sugar and a little butter. If any liquid remains when the lettuce, is cooked add it to milk and make a white sauce, which is
poured over the toast and greens.

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We are all kno pring a few fresh Dutch Beited cows and heifers. This breed, although not well known in Canada, are extra heavy milkers. Correspondence solicited.
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Keeping Stockings and Socks in Order Darning socks and stockings has lost half its terrors when one uses wooden on when darning. When not in use in this way the lasts should be kept in fine shoes to preserve their shape. Silk stocking with "runs" may be mended by using a crochet hook to catch up the dropped stitches, fastening well at the ends. Remnants of cotton legs that are of no use for anything else may be used as into strips and used in braided rugs.

## Milk for Children.

Clean pure milk from a healthy cow is one of the very best foods for children. The "bowl of bread and milk" forms an almost perfect supper, but the bread should be at least a day old, and, if liked, toasted. If skim-mikk is used the bread should be spread with butter. Rich mith may also be given to the children junket, or with custard, tapioca or sago.

Sharpening Food Chopper Knives. It is said that food chopper knives may be sharpened at home by grinding ing soap.

Carrying Dresses or Waiste.
To prevent dresses or waists from crumpling when carrying them in a suit case, put them between two large
pieces of pasteboard and tie together at each side with bits of string put through holes punched in the pasteboard. This will keep the articles from falling down in a heap.

Old Curtains Like New.
Curtains that have rotted from the sun or other causes at the lower windowsash can be made t- look very presentable.
Have the curtains Have the curtains up, taking care not to stretch them quite as long or as
wide as usual, then place a curtain on wide as usua, then place a curtain on a table, and cut off the bottom up to
where the holes begin; then cut off the piece that has the holes in. Take the other curtain and do the same. Next turn the second curtain upside down, so that the top and best part will hang down and the weaker part up. Sew the piece cut from the bottom of the first curtain on to this. Do not make a seam; just
lay one on top of the other and stitch twice across on the machine. Do the this is done you will be surprised to find how very nice the curtains look to find stitched part in the curtain comes just at, or a little below, the window-sill and is scarcely noticeable at all.-Sel.

How to Know Adenoids. If a child breathes constantly through his mouth, snores and snuffles in his sleep,
is very subject to colds and sore throat with occasional earache, does not hear well and seems dull at school, the chances are that he has adenoids, or, perhaps, both adenoids and diseased tonsils. Adenoids are spongy growths, that form far back
in the nose. Unless they are removed they are likely to make the child duller, mental ly, than he would otherwise be, spoil his good looks by giving him an overshot upper jaw and hollow chest and render cluding tuberculosis.

## Current Events

Lord Rhondda, former Food Controller in Great Britain, died on July 3rd, at his British mine-layers have laid a great
mine field beter Shetland Islands and the Norwegian coast, to restrict the operation of enemy submarines from the Baltic.
Baron Chelmsford, Viceroy and Gover-nor-General of India and Edwin S.
Montagu, Secretary for India recom Montagu, Secretary for India recom-
mended a limited home rule for that mended
country.

The American transport "Covington," torpedoed and sunk. Three of the crew are missing.
rebellion in South Africa.
Young German flyers are said to be deserting wholesale into Holland, where they are being interned.
The Finns have notified British subject to leave the country and have permitted troops in the country.
Thorough search of the waters in the vicinity of the spot where the Canadian Hospital ship, Llandovery Castle went down has found no survivors. It is believed that only 24 out of the 258 on board were saved. There were, 89
members of the Canadian Army Medical members of the Canadian Army Medical
Fifty new vessels were launched in the United States on "Independenc Day," the 4th of July,
During the week the West front has seen several successes upon the side of the Allies. On July sth the Australians with the co-operation of British troops
 por south of the Somme. The French, lines made some gains upoo the German ines between the Oise and the Alsne. Diaz have been putting the finishing ouches to the great italian victory o the Piave, while French and British troops have been making raids agains the enemy on the Asiago plateau. The brought in italy, it hary moldier of civiliza tion. In Ruseio conditions cecome daily worse, so far as the Ruseians are concerned, and the country may yet be goaded into striking back a blow against Germany that will count. In the Ukraine it is said, thousands of the peasants have been made prisoners on various pretexti and sent to the Western front to be used as manual laborers. - The Don Cossacks, meanwhile, are organizing against the Bolsheviki, a movement which is spreadtar into Siberia. Russia, however, is too disorganized yet, and too much improverished, to leave any hope of the Gerted effort Farhed Tillis and are now heading for Baku.

## The Dollar Chain

For the soldiers and all who are suffering because of the war Contributions from June 28 to July 5 50 cents "Toronto" $\$ 2$.
Previously acknowledged
Total to July 5 th............................. $\$ 5,562.00$
Kindly address contributions to The armer's Advocate and Home Magazine, London, Ont.

## TheBeaverCircle

## Lost in the Woods.

 IWritten for the Beavers by M. C. Hay ward, Corinth, Ont. A True Story.May, beautiful May everywhere! Soft green tender grass carpeting roadside and meadow, upland and valley; bursting buds on every tree, and happy birds caroling from every bough; but dearer still,
and more delightful to the two little girls and more delightful to the two little girls in my story, was the fact that the wid flowers in the woods were blooming
in great abundance, and a long promised in great abundance, and a long promised and Allie Martin, little girls of ten and eleven years, were schoolmates and bosom friends, and lived just across the road from each other, in one of the pretty, picturesque villages in Western Ontario. Mabel's uncle, Mr. Hadley, was section foreman on one of our great railway lines, and lived in the "section house" about a mile and a half from the village. At that time these houses were built at
certain distance apart, irrespective of situation, and sometimes the situation was somewhat lonely. The house in which Mr. Hadley lived was about a half south. Away to the north stretched welltilled fields, and verdant pasture lands, but to the south lay a large tract of then
unbroken forest. To spend a day with Mrs. Hadley, to have a romp with he roguish, good-natured baby boy, and to tent: this was the treat to which the little girls had been looking forward for some time. And now the day had come the glorious twenty-fourth of May warm, bright, and sunny, and two very As the greater part of this walk. lay a ong the railway track, they were cautioned over and over again, by their mother to look out for trains, and over and over again promised to be watchful. It was Mreary in the day when they arrived at Mrs. Hadiey's home. Baby Frank was delighted to see them and showed his appreciation bsy clapping his tiny hands, his limited vocabulary of eighteen months could command. They romped and played with him out in the warm sunshine, rolling about on the soft grass, and aughing at his baby tumbles. His party, joining in all their sports, and apparently enjoying them as much as did he children. Presently Mrs. Hadley called them to dinner, and you may be quite sure they were all ready for that dinner, however, it was a rather unwilling ittle boy the mamma carried away for his mid-day nap. But wearied with play he was soon sound asleep, and Mrs Hadley said. "Now is your time to gather fowers girls: Baby will sleep a couple of hours, you will be fin by that time and all ready for another play.
"All right, Aunt, Mary, and may we take Trip with us?" said Mabel. don't suppose he replied Mrs. Hadley: "I don't suppose he will pick flowers, but now girls" she continued, "be careful net to go too far into
might get lost you know
'Oh! we couldn't
Hadley", sald Allie confidently; we could hear the trains passing, and see the smoke

Mrs. Hadley smiled at the child's eagerness, but nevertheless repeated her
caution, and giving them a basket in which to carry flowers, watched them climb the fence into the wood, and then children were wild with delight. The mossy bank was a mass of bloom. Mayflowers and violets, lilies red and white, golden adder tongues, and to all of these "jack in the pulpit" was preaching on to the other, Trip dancing about them in doggish glee, catching twigs in his thenth back again, barking in sheer delight They went on and on, until the baske and then sat down on a mossy bowers, sort them over, and enjoying a rest to fore going back to the house. As they of a passing train treasures, the rumb Mabel, for the first time, looked around "
and I can't sounds a long way off said, a trifle anxiously. "I hope we haven't "Oh no!" said Allie "th. thick here Mabel, that is the reess are so we can't see the smoke, it can't be very It's right over there, listen!" said the little girl, pointing in the direction from which the sound seemed to come
Mabel was easily convinced for the time, and went on contentedly arranging fowers, and gathering moss to put pine log lay athwart the bank, and hey amused themselves by cutting thei nitials with a sharp stick upon its decay ${ }^{\text {a }}$ Oh! isn't it lovely Mabel?" said nature "Yes," answered Mabel, with a long drawn breath, "but I think we'd better Mary may be anrious if we stay They picked up their basket, swinging in the direction from which the sound of the train had seemed to come a short
"Where's Trip?" said Allie, "why there Trip!" she called and he came bounding back, and stood for a moment looking into their faces, and wagging his tail, as
his mute language later on, although on through the forest, and for trudged on through the forest, and for a liztle whe birds' queer morres, and laughing at the the birds queer notes, and laughing at the
antics of chipmunk and sugrre atartled by Trip's sharp barking Sudthe on rising on a little knoll, Shuddenly themselves on the edge of a deep ravine. Trees grew very edtickly on to ts steep sides, so thickly that the sun's rays could not penetrate their branches, and to the
two startled little two startled little girls looking down dark and lonely. They turned and looke at each other for a moment and then the fact dawned upon them that they were
lost in the woods, and did not know which way to go. A look of terror crept into Alre's blue eyes. The wood had looked so lovely half an hour before, but now a great, dark, gloomy prison, and she the courage in Mabel's nature. She a a whole year older, and much the stronge physically of the two, and she felt in stinctively, that getting out of the presen
trouble depended largely unon herself. trouble depended largely upon herself. cry", she said, trikhteng Allie's hand re assuringly, "I've heard Uncle Hadley speak of this gully and I think it is west and we'll be sure to come out some where"
But which is east?" said Allie, bravely un has turned around and it seems to away in the north.
ears, at the deed in spite of aer-own north. The laugh did them both good They turned their backs on the ravin and walked resolutely in the opposit little girls now as they walled sobe even Trip seemed to share their trouble or he walked beside them very soberly forgetting to chase the squirrels, what came suddenly to a standstill, lookin at each other again in astonishment, and again Mabel, who had the happy faculty burst into the humorous side of things "Why Allie!" she laugh.

## ack to Ali" log again here we ar

 back to our $\log$ again; here are the our initials: we've just gone round in"But how will we ever find the wa out Mabel"? said timid Allie, who was too thoroughly frightened at the situation to see anything humorous in it. "I have heard my papa say that when anyone was lost in the woods they would just keep right on walking and walking, and And Mabel, what if we should started. just keep on walking and coming that, to this log again until it sets dark? what would we do then? IM and here the little girl's tears burst forth afresh. "Oh don't cry, Allie dear!" said Mabel, again suppressing her own fears to until dark, and someone who knows the woods would surely come for us before that. But hark! hear another train; let's see if the smoke doesn't come through the trees somewhere". could be seen, owing to the fact that wind carried it in the the fact that the a fact, however, which did not occur to them then. As for the sound it seemed to come from all over the wood at once. As the train passed, a new hope dawned "Oh Allie", she said softly, "do you remember what our teacher said last Sunday? She told us whenever we were
in trouble to go right to God, and tell Him all about it, just as we would to papa or mamma, and He would be sure to help us someway. Let's tell Him now Allie? and together the children knelt on the mossy turf, and bowed their heads on the old pine log, and an earnest prayer went up from two anxious little hearts, straight to the heart of the great loving Father, whose watchful eye was over them all the while, and who, in His wisdom, experience, that their faith in Him might experience, that their faith in Him might be str
Mabel's clear, sweet voice prayed
earnestly, "Dear God, Allie and I are lost in this big woods, and we don't know
which way to go to get out. Please God

## You may be deceived

some day by an imitation of

## "SALADA"

and possibly you will not detect this imitation until the tea-pot reveals it. Demand always the senuine "Salada" in the sealed aluminum packet, and see that you get it, if you want that unique flavour of tresh, clean leaves properly prepared and packed.

## FitimeFlat Protects Property <br> From Lightning Shinan Frat Condictors ame the  <br> The U. S. Weather Bureau Says: <br>  <br> 1918 Lightning Losses <br> Will Be the Greatest Ever Known Mus.  <br> Shinn-Flat Rods Are Bonded to Protect <br>  <br> Lightining Cant Strike IF Slimn Cets There first

help us to take the right diraction out top
the railroad track. Dont
let tus
go wrong
 again for Jesus sake. Amen,
"And Allie's trembling voice

And Allie's trembling voice responded, "Well,"
Well," said Mabel hopefully, as they stood side by side again, "we"lt take athbefore; don't you remember going out under that old bent tree? But where's Trip? There he goesagain towards that tall stub. On Allie!" ohe continued, a sudden thought striking her, "don't you remember is going in that direction when we tarted the other way before? That way doesn't seem a bit right to me, but follow him anyhow " So know. Let about and followed the dog who barked with delight when he saw them coming raced on at a pace that made it hard for thern to keep up. In a very short time they could see a clearing before them a few moments more and the telegraph poles came in view over an embankment and they knew they were nearing the railway, but they were much surprised on reaching the track to find themselves mearly a half mile east of the house, when they climbed down the embankment o the track, Mabel said softly.
Alie don't you think we ought to "But", said Allie, half doubtfully stooping to pat Trip's shining coat, "it was Trip who showed us the way out "Yes, I know!" answered Mabel, "but and made us think about following him, cause you know we didn't think of such a thing until after we asked Him to show "So we didn't
Him now." And said Allie, let's thank knelt reverently against the raitway girls bankment, and thanked God for His guidance and care.
found they reached the house they found baby Frank had been awake for some time, and Mrs. Hadley was growing anxious indeed but could not leave Frank to go in search of them. They rewas fondled and petted, and called wise "But Aunt Mary," said Mabel

## don't believe we would ever have thought

 to follow Trip if we hadn't cold God aboutit, and asked Him to show us the way it, ay
out.
." "God always takes care of those who quast Him Mabel," said Mrs. Hadley as Mabel and Allie have grown to hood, and both have a gittle girl of their own, but they have never forgotten the day they were lost in the woods, nor how answer to prayer.

## Some Prize Letters. <br> Written in May last.)

To do even a lttte to warathelping to by growing foodstuf, one's duty, whether lour, meat, and sucar, or inving ume of to the Red Cross. In doing this children can help a-little.
I am going to try this year to do my buy raising a pig, which 1 am going to cause every extra pig raised this year means more meat for the brave boys fighting tor us.
Then I am going to have a good-sized vegetable garden, in which it bope to successfulty grow enough for use during
the summer and perhaps a few to store the summer and perhaps a few to store that I grow will be kept for seed, as I would like to plant a good many more Then I am going to buy a setting of eggs, which I hope to hatch under our next clucking hen. I do hope there will be more hens than roosters, because one can get eggs from them, and when they
stop laying one can always have them for meat, whereas with roosters they are Last of neat oniy.
my tea and my tea, and very little on my porridge, plate or in my dinner pail.
Marter P.O., Englehart, New Ont
I have two brothers fighting in France and am going to do my best this summer o help win the war by helping my mother
o grow vegetables and look after the


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 4 Ant fill
Brantford Cordage Co., Ltd. Branuond, Ont.
35 HONES STSEEET, WINCE:


Socond-hand Surrey, Top -busey.
Apply 31 King St., London, Ontario THRESFIING MACHINERY FOR SALE
${ }_{1}^{20-H . P, ~ G e o . ~ W h i t e ~ T r a c t i o n ~ E n g i n e s . ~}$ Geo. White Separator, $36 \times 56$ Feeder 1 Erst Bros. Separato, $36 \times 50$ Feeder \& Blower.
2 Water-tanks, 1 heav, wagon.
$113^{\prime \prime}$ Jolliette chopper, bagger and jack. In good $\begin{array}{ll}\text { alborking condition. Apply } \\ \text { B. Brown. } & \text { R. R. Mo. 5, Mount Forest, Ontario }\end{array}$

## TAMWORTHS

Both serese, two months old.
Gordon Culthen

## POUTPRY COEGGSOL <br> Ro

under this heading at three cents per word each
insertion. Each initial counts for one word and figures for two worts. Names and addresses are
counted. Cash must always accompany the order for any advertisement under this heading.
Parties having good pure-bred poultry and eggs
for for sale will find plenty of customers by using our
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for less than 50 cents. for less than 50 cents.
BABY CHICKS AT REDUCED PRICES. $16 \%$
off in June, $33 \%$ off in July. Buy your chicks now for spring layers. Barred Rocks, yhour chicks
Reds, Whind
Rhite Wyandottes. White Lephors. Satis Choice Eggs for hatching, from free range (Barron's 282 Eexg fockin) S.C.C. White Lethars

 Rose-Comb Rhode Island Reds


## WANTED

## Live Fowl

WALLERS, 722 Spadina Avo.

I will have a garden of my own, too, and grow potatoes, carrots, cabbages, beets, turnips, parsnips, spinach, peas cultivate the potatoes, turnips and mangels.

We shall have two months' holidays from school, and I will spend my time helping on the farm. rake.
By doing this I shall help to grow food for our own use so that we shall not have to buy food that the soldiers need. The potatoes and cabbages that I grow in my own garden I shall give to the Red Cross Society, who will sell them to raise
money for the benefit of the sick and money for the
wounded soldiers.
I can also knit socks for the Red Cross.
Charlton, New Ont
(Age ten years, Jr. third.)

Dear Editor.-This is my second letter to your wide Circle. I saw my letter in print, so in this compht I would write"for the
This war is eit.
thing, isn't it? $W$ getting to be a terrible every way we can, such as growing more every way we can, such as growing more
food, knitting socks, making shirts and bandages, sending money through the Red Cross Society, the Victory Bonds, Belgian Relief Fund, making up parcels containing chocolate bars, cake, gum, two pair of socks, a wrist watch and some pictures. These would delight the soldiers who are fighting in the mud for us.
In it I going to have a garden this year. In it a going to put vegetables. In the fall I will take them up and perhaps take them to the fair. Then I may sell them and send the money to the Red I will have two kinds a plot at school. kinds of vegetables. I am sending four a plan of my home garden. Well I will close with a riddle, wishing the Beaver Circle every success.
A fair little maid
In the garden was laid
As fair as the flowers of the morn,
She was made a wife
The first day of her life
And died before she was born.
Ans.-Eve.
R. R. No. 1 Sheppardton, Finnigan (Age 12).

## The Windrow

The name of Trocadero Avenue in
Paris is to be ,"changed to "President
Brig.-Gen. Benjamin D. Foulois, head Expeditionary Forces, has been appointed commander of the air
First Army of the Allies.

Since the war began France has lost Recently 800 citizens of Revere, U. S.,
assembled in the City Hall to do honor o Miss Cassandra Barrows, 46 years a
eacher in the city. In addition to tributes from citizens and former pupils
who came from great distances to honor name of her friends, presented Miss "Wormy fruit advertises that we are

The Presbytery of Sarnia, at its regular se of the appended lines as a second tanza of the National Anthem in lieu
of the one commonly sung, "God save our splendid men which is generally
admitted to be deficient both in sentiment and diction: God save our men at arms,
Shield them 'mid war's alarm
Strong may they stand in The

The Boo's Roply.
An angry wasp and a busy b The once on a clover head, The bee at his wort humer said: While the wasp with that mortals one and all, Act lindlier far by you? I use my sting if they trouble me, But that is my rightful due.
You do the same but they use you well While askance at me they look.
The wasp waxed wroth and waved his wings
Till the head of clover shook.
The bee worked on. When for flight preThe bee worked
He hovered aloft on wing
Then paused a moment and archly said,
"I give more honey than sting."

## Smiles.

Murphy Preferred Coasting.-An-officer on board a war-ship was drilling his men. "I want every man to lie on his back put his legs in the air, and move them as f he were riding a bicycle," he explained Now commence
After a short effort, one of the men
"Why
"Why have you stopped, Murphy?" asked the officer
"If ye pleaze, sir," was the answer, Telegraph.

A farmer came into town to make some purchases at the hardware store. "Can't farm on?" asked the clerk. "I can sell you a first-class one for $\$ 40$." "No, guess not," replied the farmer. "I'd rather put my \$40 in a cow." "Well, that's all right," said the clerk, "but magine how foolish you would look rid ing, around town on a cow." "I s'pose so, said the farmer, slowly, "but how

Have You Projectile Force? It is through our work that we grow or energy the character, the soul we put into it Every bit of work you do heart ily, honestly, thoroughly, is developing your own ability, making you a bigger broader, more capable man. It is the determination to do one's full share of the world's work, the willingness to struggle for advancement-the pushing out, the struggling on, the striving upward that makes the sort of man and the sort
of woman the whole world is clamoring for now as never before.

## Markets

## Montreal.

Horses.- It is difficult to say how
lumbering operations will be affected this
season hy horse dealers are doubtful regarding the tween now and the winter, on account of this business. Mentime, pricou con-
tinued steady, as follows:. Heavy draft horses, weighing 1,500 to 1,700 lbs, $\$ 250$ to $\$ 300$ each, light draft, weighing g, 1,400
to 1,500 lbs. $\$ 200$ to $\$ 250$ each. 1 thht to 1,500 lbs., $\$ 200$ to $\$ 250$ each; light
horses, $\$ 125$ to $\$ 175$ each; culls, $\$ 50$ to $\$ 75$ each; fine saddle and carriage horses, Dressed
Dressed Hogs. - No particular change
took place during the week in the marke took place during the wek in the market
for dressed hogs. The tone was firm, Maple Syrup.-Suppliec 9 C . per 1 b . were quite equal to the demand, and 20 gallons selling at $\$ 1.80$ per gallon: 5 gallon tins at 81.85 per gallon and analon
tins, 82 to 82.15 . Sugar was stealy at 23c. to $231 / \mathrm{c}$. per Ib. 1 b
Potatoes.-Although old potatoes were not in active demand, the market for
them was very firm, with Green Mountains quoted at $\$ 2.75$ per 90 lls s , in at $\$ 2.25$, and reds at $\$ 2.75$ per 90 lbs., exstore American new crop potatoes are
neeting a better demand all the time and were selling at $\$ 9$ per barrel for best,
and 8.50 for No 2 stock estore the
 oftered on the local market showed a fall-
ing off, and prices for selects showed an ng off, and prices for selects showed an
advance. Quotations were 2c. higher, at 48 c. No. 1 stock were 2c. up. 2 t 45 a

with dairy produce commission prices ruling at 23 c . for No. $1: 22 \mathrm{y} / \mathrm{c}$. for No. 2 , was cleared at 221 The Peterboro Board Bas cleared at Litte
the price of butter. The was noticeable prevailing so far has been very favorable to the quality and quantity of the make. Prices for finest creamery were 433 c. to 44 c .; fine being $1 / 2 \mathrm{c}$. under, and dairies, 37 c . to 39 c . The tone was, if anything, easy. Grain:-The market for oats was slightly firmer, with No. 2 Canadian Western oats quoted at $961 / \mathrm{c}$. Tough No. 2 and extra No. 1 feed, $931 / 2$ c.; No. 1 feed, $90 \% \mathrm{cc}$. and No. 2 feed, $87 / 1 / \mathrm{c}$. per bushel, ex-shel firmer, with sales of car lots or No. 3 yellow at $\$ 1.92$; and No. 4 yellow at $\$ 1.82$ per bushel.
Flour.-Owing to recent orders of the flours Board, demand for substitute with rye flour $\$ 14.50$, and prices firm, corn flour, $\$ 12$ per barrel, in bags. Mani toba spring wher barrel, in bags. Manistandard, $\$ 10.95$, f.o.b. Montreal, and 10c. more delivered. Ontario winter wheat flour, $\$ 11.40$ per barrel, in new cotton bags.
Millfeed.
ing the week. Bran was $\$ 35$ place dur ing the week. Bran was $\$ 35$ per ton; barley feed, $\$ 62$; pure grain mouille, $\$ 67$. feed cornmeal, $\$ 68$, in bags, delive Hay.-Prices were steady and low with inferior hay down to st per ton, ex track. Clover mixed, $\$ 6$ to $\$ 10 ;$ No. 3 hay, $\$ 13$; No. 2 hay, $\$ 14.50$ to $\$ 15$. steady, at 18 c market for hides was 16 c . for bulls, and 23 c . for steers hides; 20 c ., 19 c . and 18 c . per 1 l . for Mors, flat, or inspention. veal skins, 52 c . per lb.; spring lambs and clipped sheep skins,
$\$ 1.25$ to $\$ 1.30$ each; horse hides, $\$ 5$ to $\$ 6.50$ each. Tallow was $31 / \mathrm{c}$ per $\$$ to scrap fat; 8 c . for abattoir fat; and 16 c . to $161 / 2 \mathrm{c}$. for rendered.

## Chicago.

Hogs.- Butchers, \$16.75 to \$17; pack$\$ 17.15$; rough, $\$ 15.60$ to $\$ 16$; pigs $\$ 16$ to \$16.35.
Cattle.-Steers above $\$ 16.50$, steady, cattle lacking weight and quality, 25 c . $\$ 1$ lower; stockers and feeders and veal calves 25 c . to 50 c. lower. light yearlings Sheep.-Lambs and light yearlings
as. to 50 c . lower. Sheep strong to higher 25 c . to 50 c . lower. Sheep st
and in improved demand.

## Questions and Answers.

Formula for Stable Wash.
What is the formula for making a cheap Ans.-Take half a bushel of unslaked lime, slake with warm water and cover to keep in the steam. Strain the liquid through a fine sieve or strainer, add a peck of salt previously dissolved in warm water, thin paste and stirred in rice boiled to a add one-half and one pound of glue, which has also been previously dissolved wy has also boiling water. Add 5 gallons of hot water to the mixture, stir well and allow to Stand a few days protected from dirt. Whether applied with a brush or spray pump it gives best results when put on hot. About one pint properly applied will cover a square yard. This will give some idea of the amount of material

Give the Man a Chance. by h. b. thomson, chairman, canada 1 want the farmers of Canada to give the city man, who comes out to work for him this harvest, a chance. He is a patriotic man. He is anxious to help out to the work and he doesn't know anything about farming to speak of in seventyfive cases out of a hundred. But he is willing. You can do anything with a man who is willing. It is all in the way a man thinks. If he is willing that is not only half the battle, it is 99 per cent. of it, because he will learn. He will try. He wont quit when he makes a mistake
He wont lie down when he is tired. He wont lie down when he is tired.
He will realize that it is up to him to He will realize that it is up to him to
make good, and he will keep at it all the mime. Of course, you have to make allowandes. He is not a regular hired man. He is a wartime volunteer. He could not go to the front or he would have been in France before now. He wants to help out, and this is the best he can do. But I want to tell you that Great Britain is getting along with just such inexperienced farm help. Great Britain has most of her able-bodied men at the war. You
know yourself that one out of every seven of the total population of Scotland is in of the total population of Scotland is in
the army - one out of every twelve in England as compared to one out of every twenty in Canada. You know yourself that in France out of the population of $39,000,000$, about $7,000,000$ were conscripted for the army, of which over one million have been killed, and more than another million have been incapacitated for further service. You have seen pictures of French women hitched up to a plow because there were no horses, the the army. There is nobody left at home to do farm work in France but women told men and crippled soldiers. But France has not quit yet, nor has England quit-not by a good bit. England produced last year with the aid of her civilian
non-combatant population 850,000 tons more cereals than the year before, and increased her potato crop by $5,000,000$ tons! She increased the cultivated area of the Island by one million acres.
Why! Talk about "inexperienced" world is just shaking in the balance l world is just shaking in the balance experience a man has when he tackles a job. All that man has to do is to make up his mind that he is willing. All the farmer has to do is to have a little patience and consideration until, he gets on to his job. Look at the munition business. When the war broke out Canada didn't know anything about making munitions. She had a rife factory down in Quebec where she made a few rifles for target practice and militia purposes.
But, pshaw! that was only a flea bite. In 1014 the Government rot the mann fractures going. They didn't only learn how to make munitions; they learned how to make the steel to make the munitions with, and they have turned out hundreds of millions of dollars worth of shells in the four years which have fol lowed, shipped them across to the firing line and put them to the only use for which they were intended, killing Ger-
mans-and they are just as good as the mans-and they are just as good as the
best at that. Shells of all calibres from the biggest to the, smallest and the finest intricate with shells, like fuses and time charges, have been turned out. This is an abso utely new industry in this country, and who learned it? Were they experienced mechanics? A few of them were, but the bulk of the work was turned out by women and greenhorns. The same thing in England exact the industrial organ ia ozo,040 man them into the arganizathey filled their places in the factories by women- 804,000 women. You would think that the industry of the whole country would have been wrecked. But was it? You know perfectly well that the output of guns from the British factories increased 30 per cent., and in the case of aeroplanes 250 per cent. In spite of the shortage of skilled men for the shipyards, by the help of inexperienced turned out $1,165,000$ tons of British ships last year.
We have got to organize inexperienced We have got to organize inexperienced townsmen of all classes, women and boys. We have got to save the harvest. We are
appealing to all classes of people to get

## Keen in tow h with menu re ane fighting fore you!

There's a hard campaign under way "over there" -the grimmest, deadliest yet-a campaign that will call for the last ounce of stamina and morale. Let them know you are thinking of them, and appreciate what they are doing!

Nothing will help more than letters, cheery, hopeful and frequent. Reinforce them with sensible practical gifts, like the

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and once in a while, a few packages of Gillette Blades to replace those lost or given away.

Clean shaving has from the first been a matter of pride and discipline, as well as a -comfort with our boys. You can imagine how it refreshes and braces them up after a long dusty march or a day of hot and desperate fighting. Now it's a matter of life or death as well, for on none but a cleanshaven face can a gas-mask fit close enough for safety in these days of intensive gas-attacks.

And the Gillette has proved itself by'all odds the best razor for the job. It's always keen and ready for action, even under the most unlikely conditions. To that man whose life means so much to you a Gillette would be a welcome daily reminder of a home worth fighting for. Don't keep him waiting for it! Ask your dealer to show you the new Military Sets in metal and khaki, today.

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Canadian Service Set

34

out on the farm. Give them a chance.
Be patient with them. Teach them and Be patient with them. Teach them and
do the best you can. Go at it in the right spirit and they will do the same and you san bet your boots Canada will produce the goods in 1918 that they are starving for across the Atlantic.

Questions and Answers. Miscellaneous.

Warble Fly
When our cows are in the field they frequently give a jump and run as hard as they can to the barn or some shady place. This only happens on very warm this trouble, as our cows are failing in milk very rapidly?
Ans.-This trouble is, due to attacks is sometimes called the gad fly or heel
fly. These flies appear early in the summer and deposit their eggs on the skin of the cattle, fastening them to the hairs. The
cattle seem to be much afraid of these flies and are sometimes stampeded by them. About the only treatment that can be applied is to use some fly repellent. Terminating a Contract. A rents a farm from B, but when the transaction was made B did not say repair. A has rented the farm for a term of three years. The water runs into the stables in the spring and after every heavy rain. A had to dip water for three days and nights at a time to keep the stock from drowning. B has been compelled to stay the full term or be he vacate this fall provided he or can payment for the time he was on the place? Ans.-It will depend a good deal on the
wording of the lease. It is altogether likely that B could demand one year's rent. The lease may be worded so whether A stayed on the farm or no' rent Splint.
I have a young horse with a splint about one inch below the knee joint. both legs are affected. What treatment Ans.-If the horse is not lame it is doubtful if it would be advisable to apply treatment. If lameness is present, given him a rest and bathe the parts frequently with cold water for three or four days, then rub well with a blister made of one dram each of biniodide of mercury and cantharides, mixed with one ounce of
vaseline. The horse must be tied vaseline. The horse must be tied so he hours rub well again, turn into a twenty-four and apply sweet oil daily until the scale comes off.

## WRIGLEYS

Six reasons

## WHY <br> itso sood

$1-$ Steadies nerves
2-Allays thirst
3-Aids appetite
4-Helps diqestion
5 -Keeps teeth clean
6-It's economical


Chew it after every meal The Flavour Lasts!

(A)

## Ouestions and Answers.

 Miscellaneour.
## Citizenship.

I desire to know whether or mot I am a British subject. I was born in Russia of age. A this country when four years become naturalized

1. Does that do for me?
2. Or must Itakethe oath of allegiance 3. Cari I take it before 1 become 21
years old. years old.
Ontario
Ans.-1. No; but your father $\mathbf{R}$ Ans.-1. No; but your father may
apply to the Secretary of State im Canada to include your name in his certificate of naturalization. If so included you would thereafter become a British subject.
3. Ges. 3. Generally speaking, na But there
is provision in the Naturalization Act, 1914, for grant by the Secretary of State in special cases

Yeast Treatment.

1. What treatment do you use for cow that will not conceive? recently has a teat from which freshemed impossible to draw the mill. What can be done for the trouble? A. D. Ans.-1. What is known as the yeost treatment may give the desired results if the cow is physically all right. Mix an the warm water and allow to stand for 12 hours in a moderately warm phoce then stir in one pint of fresthy boinod. luke-warm water and allow to stand for another eight or ten hours. The entire quantity should be injected into the vagina of the animal to be bred. Use the ticed and breed when period is about ended.
other nature or an obstruction of some teat. It is sometimes possible to remedy the trouble by performing an operation.

## Dimensions of Farm.

1. I am about to purchase a 100 -acre farm, on which there is a rail and stump fence. How many rods of fencing wire it take to divide rods of fencing wounld felds with a lane through into eught the farm How through the centre of apart would be required?
2. Should I put up the line fence at yy own expense or should my meighbor 3. There are a number of oak post on the farm. Would they be satisfactory to use?
3. How many rods are there around a square hundred? A. J. F. rods of fencing and 935 posts. 2. Your neighbor is supposed to bear the expense of labor and material for owe 3 . in localities where it is plentiful for posts 4 Approximately 506 rods.
Concrete Cistern.

I purpose building a cement cistern for soft water supply for my house, to be system. Connection with trom insure cellar. Would it be advisable to place the cistern in the cellar, or would there be danger of it causing dampness? What
size of cistern would you recommend the average size family? recommend for Ans.-It is possible that there E. R. a certain amount of dampness from the cement cistern placed in the cellar. However, if there were adequate drainase from around the cistern we doubt if it would size of cistern for soft water extent. The on the frequency of rains in would deppend and also upon the amount your locality, A cistern 10 by 8 by 6 feet womild hold approximately 3,000 gallons. It is advisable to build the cistern plenty large enough, especially if you are depending for bathroom and toilet. The management of
The management of the Toronto Fat classes for female decided to eliminate be held this fall. At a time whem beef is so badly needed by all the Allied right to offer prizes which would mot be inducement to slaughter femall be am which should be utilized for breedting purposes.

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## 

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July 11, 1918

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 In the fidsts the ork would never be done if it were not for modern machinery In the house, theSEAFOAM Washer and Wringer saves just as much time, labor and money, as the mower does in the fields. It releases the housewife for work in the dairy, the garden, or with the poultry

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## Dowswell, Lees \& Co., Ltd.

 Hamilton, Canada

Gossip.
The McGregor Doddies. One of the largest sales of Aberdeen-
Angus cattle to be held in Canada will Angus satt at the Brandon fair grounds on July 26 , which is during the week of
Brando Fair. The propritor, Jas. D. Brandon Fair. The proprietor, Jas. D.
McGregor, is offering his entire 1918 show McGregor, is offering his entire 1918 show
herd, including Majesty Queen, that herd, including Majesty Queen, that famous Angus cow. She has a bull cal Pride of Glencarnock 3rd, believed to be one of the best two-year-old heifers on the American continent to-day, is in the sale. Some idea of her growth and thriftiness can be ascertained when it is known that
she weighs close to 1,500 lbs. The breeder She weighs close to
who secures Pridista of Glencarnock, a who secures Pridista
senior yearling, will have something that will win in very keen competition. She is out of Pride of Cherokee 19th, firstprize yearling heifer at Chicago and
champion female of Canada in 1910-11. In junior yearling heifers, Glencarnock
Pretty Rose 2 nd
will prove She is sired by Black Abbott Prince and is a real outstanding heifer and should be a great producer. In heifer calves,
Karama of Glencarnock 2nd and Key of Glencarnock will be features of the sale; the former is regarded as the best female
which Mr. McGregor has in the showring for this year. Breeders requiring something choice as a herd header will
find in Pathfinder of $G$ wenmawr an outstanding individual that was a first prize junior yearling at all the Western fairs year. He weighs around $1,800 \mathrm{lbs}$., and by the time he make the ton. He is sired by Edward of Glencarnock. If a younger bull is wanted, Laird of Glencarnock 2nd, a junior yearling weighing around 1,300
lbs., will meet with the most exacting breeder of the Doddies. In the sale will be seventy-five breeding
cows, half of which will have calves at foot, and the remainder heavy in calf. A grand lot of two-year-old heifers which
have been bred will also be offered, be sides twenty yearling heifers, some o
which are full sisters to the most noted which are full sisters to the most noted
show cattle which have gone on the circuit show cattle which have gone on the circuit
from the McGregor herd. The sale will


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Our prices will advane $33 \%$ on Auguset 10th, next. Order received up givinerey ghicyire of your old wazon at small cost. "CookE" whels are

 your nearest station, no matter where you live! 19 West Street,

Orillia,
BROOKDALE FARM HEREFORDS
 W. READHEAD MILTON, ONT When writing advertisers will you kindly mention The Farmer's Advocate
be held under cover, and commences at 12.30 sharp. Every animal in the sale is guaranteed a breeder, and every, animal
will be sold absolutely without, reserve Besides attending this big sale buyers will have an opportanity sf saie, buyers Brandon Fair. The son leaving for the war and the father's time being taken up with duties of a national character are reasons for holding this dispersion sale..II

The exhibition buildings in Queen the militar, which have been used by time, are now authorities since last fair pairs and changes in preparation for the big fair to be held September 6 to 14 An addition is being built to the sheep pens, and a new roor is being put on the dry and comforter that it may be made dry and comfortable. Space in a numtaken up. The Government is sending a number of exhibits of unusual interest, and excellent pictures are being loaned by the National Art Gallery, Ottawa, which shourd prove of interest to all who visit the art gallery. For detailed information
write the Secretary of the Western Fia write the Secretary of the Western Fair,
A. M. Hunt.

John Elder \& Sons, of Hensall, write as follows: "As in past years, registered Shorthorns of high quality continue to go out far and near from the Elder herd at Hensall, thus showing that selections This this herd satisfy the purchasers. ago by a selection of good twenty years fermales, and during that time poly four bulls have been at the the only herd, all of which were well selected individuals and proved to be great sires worthy or being retained in the herd for a goodry number of years. We have Hawkins, of Thedford and bull to W. milking strain to Ivan Hairsrice of Leamington, and to L. Morrisen, Shedden, six choice heifers and a bull, all under one year of age. It is doubtful if a finer lot ever left Hensall Station to lorm the foundation of a herd. They
were all sired by the present were all sired by the present stock bull,

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## Cornerstones of a Great

 Career.Why are great men so few? In hundred thousand population we hav scarcely a hundred who have made world place for themselves. And we are the nation of born leaders-in other land the proportion of supremely great men will be found to be considerably less than 1 to $1,000,000$. Russia, for example, ha not more than five or six big men, China has not more than a dozen.
Of all the human beings now on earth, it is probable that not more than 300 wil finally be classed among the immortals Reckoning the population of the globe at a conservative estimate of $1,500,000,000$ we conclude that only one person in 5,000 , 000 , the world over, is likely to attain the eminence that marks the work or char acter of supreme excellence
The secret of immortality is to do something greater or better for the world than was ever done before. Incidentally, fame and wealth follow. But when we have realAy earned fame and wealth, we do not care for them any more. Supreme endeavor has Yor its motive the joy of accomplisament, the pride and thrill of leadership, the re sponsibiity of service, the ideal of imhard the hope of proving worthy of the hard, the hope of proving worthy of the tnowing that you have done your best The beginning of greatness is to have an incentive that grips your mind and heart, and forces you to act without regard to public opinion, your own pocketbook, or any superficial consideration.
Who is the biggest man of your town, city, community or state? Why is he the
biggest? Did he grow strong by leaning on his early advantages -or by climbing Over his early disadvantages? Were his
life opportunities showered lite opportunities showered upon him-
or did he hunt them and create them? How many failures, disappointments and heartbreaks has he gone through? Do the people who live near him understand his motives? How far could his principles and methods be applied successfully to other branches of commerical, industrial or professional work? Has he met and surmounted problems or difficulties that you are facing at this moment? How could he be persuaded to teach, announce or demonstrate his rules for success to the Ouestions like these she neighborhood? fully and demonstrated practically wherever young people from ten to forty yerof age meet regularly-in the home, the school, the church, the business organization. To be educated is not to memorize
the facts of the past but to energize the possibilities of the present. There is more
to be learned from one big man than from a dozen big books:
pood foun io for any vocation is a good foundation for any other. Your proIession, trade or business merely forms the -the foundation consists of your personal habits, traits, principles and methods You cannot build a lofty career without knowing what these foundation elements are, what they mean to your career, how to select the good and reject the bad, how to
combine the best in the best way, how to dig into your character and lay the foundation deeply, how to cement the foundation to stand hard as a rock, how to judge it,
prove it and build on it. Every man is a builder by occupation. builds for himself his own life structure. How he builds to-day will be shown to all
the world in the height and breadth of his The average person starts to build a life with no more sense or system than a child uses in building a toy house of blocks on time until a cruel circumstance hits the irail thing and it topples over. Ninety per
cent. of the men past sixty-five yey age are industrial, social, financial and ness or society, no established life work selvesme adequate even to support themselves, no character sufficient to control
their environment and influence the world for good. These men built haphazard, they
used no moral principles in the foundation no scientific methods in the construction of their life dwelling.

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 present two exceptionally good young bulls ready
for service, and others younger, as well as females
all ages. Some aare full of scotch breeding, and all

Evergreen Hill R.O.P. Shorthorns
 PLASTER HILL HERD Six young buall-Purporoso Shorthorns from for th thiren months.
Size, quality and goor tiiking strains. F. Martindale \& Son, R. R. 3, Caledonia, Ont Spruce Lodge Shorthorns and Leicesters Herd headed by the Butterfly-bred bull, Roan
Chie 1 mp $=$ Go8b5 . Young bulls, cows and
heifers of all aes. heifers of all ages, of good breeding and quality.
W. A. DOUGLAS,
CALEDONIA. ONTARIO College GLENFOYLE SHORTHORNS of Rothschild and Taylor's noted stock Am
offering young cows and heifers, bred to this ame bull. Houe a fews bulls of breeding aze on thand
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in ten or more points of similarity. The quality, size, occupancy,arrangement, con struction, price. We will formulate a few questions on these points to help you
analyze and organize the building of your analyze and organuze the building of your
career as you would the building of your house
Plan. Have you a definite purpose in living? How far does each fact, word and thought every day carry out this purpose sirable and atainable? purpose is both de your life ahead as completely and scien tifically as you would plan your house? Does your performance fail to measure up to the plan? Can you change minor de tails of the plan to accommodate yoursel to circumstances, without destroying or
hindering the final outcome? When it fails oo work, do you hod yourself responsible? Place. Are you in the right job, How do you know? Can you make a better
place for yourself with your present concern, or must you go somewhere else.
How far can you build future develo How far can you build future development on the basis of present knowledge and past experiencer How many openings are there
to a higher position? How many promotions have you had where you are? you get another job if you lost the one you have? How would you make sure it What are you doing now to improve your methods of work? Is everybody satisfied
with results?
Use. What do you wish to be the main output of your life? A product of commerce, or of character, or of both to-
gether? Do you want more to sell things and make money-or to serve people and
make friends? Which means more to you, recognition and appreciation by the public, or your own satisfaction with your own work? Are you happier when getting something-or giving something? Have you classified your talents, your physicial, mental and moral possibilities,
, planning to enlarge their scope of expression? Are you working toward financial independence in order to be free, to do
better and bigger things than money somebody be. you a million dollars, would you devote $\$ 900,000$ or itcothe extension or your purposes and with your work? Do you love your work or much that nobody with any a mount of money could pull you off the job?
Material. Do you know that every hought or emotiond either tears down or
builds up your mind and body? How many of your thoughts and emotions, regular nod up all your daily habits to carry forward your life purpose? How many "small" vices have you? Are you informed
as to the proven specific ways in which they shorten your life and impair your efficiency?Are your opinions alwaysreason-
able and impartial? Do you know more about your business than anybody else connected with it? Would you back up your life plan with all the money you

Quality. Is your word as good as your bond? Are you famous for good workmanalways ectify it promptly and fully? Do you never make the same mistake twice? Have you conducted a national Investigation to learn whether anybody is making a batter product of your kind than product do you require to guarantee it he best possible? Are you employing best work from your associates most and ordinates? How do you know you are giving adequate pay, and sufficient other rewards better wan payi complaint or criticism about your work? Is quality of output more important to you than quantity, when a choice between the two is necessary? worth at least $\$ 100,000$ to
trade mark

Size. How many people do you expect
ultimately to reach with your sales and your services? Could you not by imor distribution easily double, treble or quadruple your present number of patrons, so as to reduce overhead expenses ant the price of your goods, thus making building up a professional or business or ganization that will live for generations after you are gone? Did you ever plan
how to make each client or customer one

## Cushman Binder Engines aill Farm Work

 SAVE A TEAM ON THE BINDER

The 4 H.P. Cushman is the original and only successful Binder Engine. housands are in use every harvest-saving horsefles
THE ONE (一that is used in the grain fields all over North America, fro m Tass BINDER to North Alberta.
BINDER \{-that has ten years of successful fiold work bohind it $\begin{aligned} & \text {-that has proper attachments to fit any make of binder in use. }\end{aligned}$
The Cushman is water-cooled and cannot overheat on all-day run in hot harvest field like engines not properly cooled.

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Investigate our 8-15-20 H.P. Two-Cylinder Engines
They are the lightest-weight farm engines in the world, yet they are more steady ranning; vibration. May be attached to all farm machines that require stationary power. Fasy to move around. Moving parts enclosed and run in bath of oil Throttle governor. Run at any
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anning Mills-"tHoiland", Witd OatI Soparators-Smut anid Fiotitn Mtachines Universal Hoists-Langdon Ideal Solf Foedors - Porthion Grai Tleators - Wagner Hardware Spectialties-Combinatio
Threshing Outfite-Shinn-Flat Lightning Conductor.

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still has a few Shorthorn bulls, fit for service, and some females that are as good as can be found for
the man that wants to start right in Sootch Shorthorns. They will be sold for a low price, considering the quality, and the freight will be paid. Write for anything in Shorthorms. One hour from Toronto,
IMPORTED SCOTCH SHORTHORNS Our present offering includes 100 imported females and 12 young imported bulls, representing the most
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mile from farm. J. A. \& H. M. PETTIT, FREEMMAN, ONTARIO
SPRING VALLEY SHORTHORNS Herd of seventy head, straight Scotch, good individuals. Weaded by the great show and breeding bull,
Sea Gem's Pride 96365, and Nonpareil Ramsden 88422 . We have for sale four as good young bulls as

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## ESCANA FARM SHORTHORNS

 yearing for frade herd. Farm $1 / 4$ mile from Burington Jct., G.T.R. BURLINGToN, ontario SEVENTY-THREE HEAD OF SHORTHORNS.
$=77521=$ Eat the he head of the of herde meerter mmmed, ate saye. They are out of good dams, which will bear inspection. Our cows and heifers will
please, and youll like the bulls. Also three extra-good grade heifers, from heavy millk-producing dails.

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Light in welght-wear like Iron. More comfortable than those who don't wear
threm can imacine. Mer can in thasine. seneral shape of a moccavin, they
afford ease of movement that is delightful. Piford ease of movement that is delightful.
Boilt on right and left lats, with counters and
soles they fit the foot hold their shape and soles they fit the foot, hold their shapes and
give the greatest measure of neatnees and
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Pohner-McLallan Chrome-011 Process Which makes it soft and very durable and preThe sole and heel are nailed on by a racking. which

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1 bull, 2 years old; 1 bull, 18 mos. old,
from a $231 / 2-1 \mathrm{l}$. 3 -year-old dam. One R. M. HOLTBY, Port Perry, Ont.

[^0]your number of business friends growing Do people in large numbers come or send at least 100 miles for the product o do you you offer? When you lose a patron doling to make your business a profession, or your profession a business. When a poorly dressed person comes to your place of business, does he receive as much cour tesy as a millionaire?
be a place in Do you realize there should he a place in your career for hundreds o ested in making the work as much interre? flow are you going to select, you sustain and reward these helpers?' What branches or departments of your industrial or professional organization will inally be necessary? Heve you laid these partment cour own mind, with every department conducted by an expert? Who is of the right stuff to make a leader out of, and will be competent later to shoulder abig responsibility? Has your organization studied and prepared all the new profit-sharing or stock-holding by the largest corporatiow being worked by the largest corporations? Has the idea Does everybody working under you feel that he is working with you, not for you? Is each member of your organization planning his or her lite work ahead, as Arrangement
work to day, inead of doing today's dreaming about the of wasting time corrected departments and individuals so that there is no friction or envy or lost motion or material or money? Are your cools, implements and machines arranged on the principles of scientific management? needless motion counted the number your day's work? Do yogularly make in cost of every operation? Do you alwas make sure that the other fellow gets square deal before you do? Are you getting all you earn and earning all you get? Hav you trained yourself to look for new op portunities where you are, and to take ad
vantage of them? vantage of them
life plan has been accomplished? How will it take to finish at the present long of construction? Do you know all the rea is slower the development of your work is slower than it should be? What supplies, do you lack? Where and how or helpers cure these? Have you how can you se principles, policies and methods worked out and written our for each department and each individual? What personal de focts or deficiencies of your own have you you learned your doing big things? Have each disappointment or failure? What are you reading and studying outside of work business? Why and how are the biggest men in your line doing things better than Price. Do you know how many and has made to achieve an immortal purpose? s your purpose the greatest thing in your
ife? Have you, under the fore swept away forever the trifling personal dulgence that keep most men from doing anything worth while? Is your deepest done? Would you rather work than play? in the world? If you were offered fines of President of the United States on condition that you never went back to your present work, would you promptly,
proudly and firmly refuse the offer? willing to hardship, failure, grief, loneliness pain, derstanding, abuse? Will your life pulan bring ybu large financial rewards in the care about? Is personal thast thing you even comfort immaterial to you so long as you get your work done? Have you
studied the sorrows of the great men of all time? Could you wait twenty years for minute as you are now? as sure of it every fight to syou are now? Would you rather fessional ideal than live and work without wisdom where nothing matters but doing What is you know to be right? most expression of one's physical, mental moral and spiritual power in the best ways known to advance the progress of


## THE $\$ 12,750$ HEIFER

Sold at the ereat Mil waukee Sale, was only one of the many daukhters we have of our senior sire
Pootiac Korndyle of Het Loo. We als, have exceptionally low. Let us bear from you several other young bulls of serviceable age, are priced


## Manor Farm Holstein-Friesians

Segis Pontiac Posch and King Korndyke Sadie Keyes. All are form my senior and junior sires, King Choice bull calves at present to offer - average for two nearest dams, up to 34.71 lbs . butter is
seven days. Correspondence solicited, visitors welcome.

CHOICE BULLS—Ready for Service
 No. 2-By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old) averas
34. 17
lbs. butter in seven days. Price $\$ 600$. Some extra choice young bull calves, from $\$ 8000$. HIGHLAND LAKE PARMS

## Hospital for Insane, Hamilton

choicest cows to be seen in any herd, and bulls equal to the best.
Apply to Superintendemt

## SUMMERHILL HOLSTEINS

## 

Cloverlea Farm Holstein-Friesians GRIESBACH BROS. $\qquad$ extended pedigree write to a 20.3 ll . dam. For price and DUMFRIES FARM HOLSTEINS S. G. \& ERLE KITCHEN $\qquad$ ST. GEORG SILVER STREAM HOLSTEINS
 Choice Grandson of Queen Butter Baroness amo ofiering a choice 14 -months bull from a $21-\mathrm{lb}$. junior two-year-old dau t ter of Lo is Prilly Rouble
Harton, and sired by Baron Colantha Fayme, a son of Queen Butter Barones, he forme $33-1 \mathrm{~b}$ Canadian
champion cow. Also have other younger, WALNUT GROVE HOLSTEINS

well you can do it, how far you want to do it for the benefit of other people
rather than yourself are the main points to consider. Wealth or fame or social position or some other material reward
may come as the crown of your but will not come if you think of the career, when you should be utterly absorbed in Constructing the base. Atribute is only
the echo of an attribute. Before the wold the echo of an attribute. Before the world
will look up to yout world to something higher. The only force of an ideal. Put new idew is the your work, visualize them with racation methods, and watch your business boom. Every great industry was founded on a great personality and a great personality
is but the human
in is principles human embodiment of great principles. The sign of real genius is not
eccentricity
but impersonalty you can tell a man's business from then he looks or acts or dreses or talke thay not a great man. Rudyard Kipling doesn't wear his hair long as imitation poets do; Billy Sunday doesn't require Luther Burbank resemble him a preacher. than a farmer: General Pershing hat more idea of military badges on his coat. Pres the dent Wilson easily throws away presidential dignity, runs off to the circus and eats peanuts with the rest of the boys. A man is great in proportion as he does not care to appear great.
If you were planni you would probably make a stuld a home homes, that you might include the other features and omit the bad when building Why not do as much in planning a life? The first thing in a life, as in a house, must be the cornerstones. The cornerstones in Health . Knowl great men have been dustry. Health is largely physical, Know, edge is largely mental, Character is largely moral, Industry is physical mental, emotional, moral, spiritual, a scientific blend of the powers of the whole man. Looking back thirty years and extent of will see that the quality made the foundation of your cornerstones The firsi cornerstone is Heallth. In war and in business, the successful fighters are the men who keep themselves fit. Recent investigations by Government officials, famous doctors, and experts of the life insurance companies go to prove that 80 per cent of the adult employees in the United are below normal health cond itions to such an extent that their work materially suffers, in quantity, quality or both
80 it is estimated on the other hand that 80 per cent. of the leaders in American life to-day have specialized in health study and practice tho because of a The few men stitution, seem able to defy the laws of health and pay no penalty are likely to die suddenly and prematurely, just when they want to nive most because they are beginning to achieve most. his life by living wrong thirty years of hing when you live wrong.
The pail and teat cups are suspended from the
cow's back. The teat cups cannot fall on the floor and suck up manure or straw. The Omega and as clean as is possible Omy band milks as fost Leading
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placed in the bank at the first of each year, and allowed to accumulate at interest for twenty years, will amount to \$1,107.04

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 Fix ix



RECORD OF PEREORMANCE JERSEYS




## Shropshires and Clydesdales

 Besides my regular offering of ram and ewe shear-lings, I have the three.year Clydesdale stallionCainimo vie Heir 18209 . Write quickl. W. H. PUGH, Myrtle Station, R. R., Oncarlo

Cliverdale Shropshires and Berkshires - 40
shearting rams, 70 shearling ewes; an exceptionally choice lot true, to to type and wewl rown, nearly all
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 Sunnyside Chester Whites and Dorsets. In
Chester Wites whave both sexes, any age, bred Chester Whites we have both sexes, any age, bred
trom our champoions of many year. IIDDorsets
we have ram and ewe lambs by our. Toronto and Ottawa champion, and out of Torontont London,
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BIG TYPE CHESTER WHITES Three importations in 1918. From the leading
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## TAMWORTHS

| Young sows bred for Sept. farrow and a nice lot John W. Todd, R. R. No. 1, Corinth, Ontario |
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| Morriston $\underset{\text { Bred fort fre and and Shorthorns }}{\text { Ta }}$ of England. Tamworths, both sexes; bars from 2 to 12 months. Shorthorn bulls, from 5 to 10 CHAS. CURRIE. Morriston, Ontario |
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| Six large litters of young pigs, about ready to wean; pairs supplied, not akin. Write your wants to G. W. MINERS, EXETER, ONT., R. R. No. 3. |
| rose isle yorkshires <br> Herd headed by the O. A. C. and Brethour's bred hog, Weldwood 93. Young pigs, either sex, 12 carrying the blood of the Torc nto champion, Pine Grove Rover th the MOSSIE BUNN, DENFIELD |
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vertise and sell them; how to serve your patrons better; how to put all competition lar in the rear; how to set up a new
record for yourself in twelve months; how to enjoy your work more than your play; how to find what your real work is; how to save time and energy for yourself and all your helpers; how to reduce overhead; how to stop complaints; how to build a professional library; how to develop a profit-sharing plan; how to increase wages and profits at the same time; how to make every worker proud
of his work; how to eliminate the "boss" of his work; how to eliminate the boss
idea and substitute the partner idea idea and substitute the partner idea;
how to teach employees to think for themselves; how to turn every loss, disadvantage and failure to account; how to combine practical methods with ideal principles; how to insure healthful surround ings and mental conditions; how to incorporate social service. When you have
mastered these points of the business game, we shall be glac to give you harder ones to sharpen your wits upon, so that you will not need billiards or poker to keep them properly active.
The way to reach the head of your business is to have your head reach all over the business.
thinking, or think without working, but think abour your work when you are not working, then apply the resul of your thinking when you are working. The on the man whose head; heart and hands are united in his work. Failure is merely a habit of doing something with your hands while your head and heart are somewhere else. Faiture is the willingness to be a fraction of a man.
The third cornerstone is Character. Character is the kind and quality of wood under the varnish. Character is a natural rose in a world of artincial roses. Character inmost self. Chan and radiation of your inmost self. Character is what is the sum the triumph of your determination ouer your inclination.
In a recent contest to determine who is that what the employees of a derge concern trust, follow and obey is the character of their employer-not his wealth or his
power or his shrewdness, but his plain oldfashioned character. The men who control 5,000 to 30,000 employees are men of supreme force of character. A
beneficial exercise for any young man is to pick out ten most famous men he knows, whether teachers, doctors, bankers, merchants, manufacturers, inventors,
scientists, warriors, pilanthropists, or scientists, warriors, pilanthropists, acter foundation of each man really is, what moral qualities have made each man great, and what ones they all have in

The fourth cornerstone is Industry. The higher a man gets the more he has to work sut the more he likes to work. The habit of doing hard work and lots of it puts a
man straight in line for leadership. The biggest men of this country work at their of then to fourteen hours a day. And some of them, while they were getting their
start, worked sixteen to eighteen hours a day. Their employees insist on an eight are still employees explains why they promoted while arguing for an eight-hour

A lazy man is always sick. And a tired man is generally foolish. It isn't hard
work that wears you out, but the habit of taking your work hard. man doesn't like his job there is something wrong with both the job and should first find what is wrong with the job; if the man is an employee he should function of the new science of work is to in such a way that everybody can do more work and hetter work with less fatigue,
the profits of the owners and the wages of the workers are increased together, and all esults and relationships are satisfactory. me here for. Unless he finds it and does calls for everything in you that makes you man. It is a fight, a game, a challenge, a religion, a philosophy, a crusade, a serv-
ice to humanity, and a nueasure of all powers of your manhood. Look into your
job. Learn its possibilities. Make the most fruitful a study. The way to become great

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> ITAVE you noticed how discussion of the food supply situation seems to center around the number of acres it is possible to plant rather than around the harvesting of those planted acres?
> It is an unconscious, but none the less wonderful, tribute to the genius of the inventors of the reaper and binder that the planted as a matter of course. The sole question now is, "How many acres can we plant?" The power and help required by the planting will be amply sufficient for the harvest where Deering binders and binder twine are used.
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Miss Vera Costello has made a total of twenty-two dollars up to this time.
Another of our representatives in the Toronto District has made a total of $\$ 49.00$.
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