## 



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LONDON, ONTARIO, JUNE 4, 1914.

## EDITORIAL

Old weeds die hard, young ones succumb much more easil

Harrow the sprouting corn. It will save latior later on.

Keep the cultivator going-cultivate! Cult: vate! Cultivate

A few swede turnips will add to the value of the ration for the cattle next winter. Sow them soon.

If you have a small piece of land that is clean and well cultivated try a little alfalfa sown
Here is one to ponder over: "We are short on originality, long on imitators, and very short on stabiiity."

Hot weather is here, flies are here, and unless the dairyman is careful kis cream or milk will be tainted before delivered.

If possible arrange the pastures so that the stock may have access to shade. It means much towards their comfort.
Attend a few of the good old-fashioned picnics in your neighborhood. A day away from the farm now and then will inspire
Watch the methods of your neighbors, and see if there is not something in them that could be
used to improve your own. If so do not hesitate used to improve your to make use of them.

A good cow can soon become a scrub in the hands of a careless and indifferent owner, but a
scrub cow cannot be made worthy of a stall in scrub cow cannot be made worthy
a good herd by the best of care.
Woes your farm reflect prosperity? If not
why not? As a general thing on an average why not? As a general thing on an average
fertile soil the farmer himself is the factor which fertile soil the farmer himself is the factor which
determines whetker or not good crops will be produced
1i ('anada's farmers were as rich as some
Would make it appear, they would not have to would make it, appear, they would not have to
take the dust of so many city-owned automotiles, and they would be piven their due portion of the roall on all occasions. Low that the country's business with Mac-
Kenzu, and Mann is settled for a few months,
shoult not take long for Parlament to wind uf,
the fomple's aftairs to be attended to this ses-
sion
 reads and arbitration would never have been
drean. $\quad$ of. Formerly all things were fought
out,

## A Big Man's Job.

Do not despise your occupation as a farme: no matter what is said or written. Farming is some of the best men in the world working towards its advancement. It has become a common saying that the farmer is not enough of a business man to successfully compete in these strenuous times, and some say that it is because of his lack of business acumen that he is not given inore lavors in a financial way by moneyed corporations. Be that as it may we venture to say that if a good many of the advisers-busievery dollar they make hy the sweat of the brow and by live-and-let-live business principles, the farmer's lot would be easier to-day and he would have more cause to he looked upon by other professions as a business man. We said at the out set that agriculture is a big man's job, and so it is. With weeds and weather to contend against, scarcely any good farm labor available and every other industry taking all possible advantage of the inability of the man who must work long hours how can he ha life whe he, the financial and social side of life, which give Many of our financiers have not had as much ability as lies latent in many busy tillers of the soil, but they simply grasped the opportunity aid bare before their eyes, and once they got a little money they had the "whip hand" and more came at their bidding. They were big enough to amass great fortunes, but many could never have been successful farmers. The farmer's job is the biggest job in tris councry, and he whe masters manipulated other peoples money to enrich himself.

## The Fight Is On.

 in the potato patch, in the roots and even in the n which, if not checked, will work havoc with he crops on these fields, or will require an end less fight later on to exterminate them. The corn is just peeping through and the roots are not up yet, in fact may not have been sown, the has laid a few days, and over all there is slight green cast, and where the land is stirred it shows full of countless white rootlets anc the many weeds to which fertile soil is heir Now is the time to commence the fight. Harrow the orn if it is not too big. If it is culvate are up, and once just as they ure coming and as thoroughly as possible, and lastly hoe the garden that the table may be supplied through out the summer with fresh vergetables and legitimate and important fight which now conrens farmers, ont ind are dreadnoughts. Goot farmers look upon dimy crops as a disgrace, and cultivation. The fikht is on. With the help of weentors. hatren if ool commence the fight be hows, volu can win if oul commence the fight beHelping Nature to Grow Her Crops. Agriculture is a term with narrow significance
to some, but as years go by and ..knowledge comes" the outlook broadens into an knowledge field without a visible horizon. A little difierence in slope, a little difference in the character of the soii, and a few days longer growing season make one acre so situated as productive as an o:dinary one-hundred-acre farm when the value of the output is conisidered. The systems of coaxing valuable crops from the soil, as practiced in the South-Western part of Ontario, emphasize the unlimited possibilities in the agricultural world, and what a change of conditions or diversion of effort will accomplish. Temperaartificiol irrigation and with acres of giass the yount plants are reared until the summer comes, when they are set into the field where the crop is matured in a month or two. The sun's rays have been collected, stored and augmented with artificial heat, and the seed grows into the young plant much more quickly there than where nature has the whole responsibility. The growers in the early district are not indifferent to weather and climate, but they work in conjunction with nature and the union is a happy one

## Sell Hay or Graze

Scarcity of labor in Old Ontario and in many other parts of Canada has led farmers to seed hown permanently a large proportion of thei likely freatly deplete the soil of its fertility and if the right course is followed should in the end build it up. We are not strongly in favor of anything but a fairly short rotation of crops, but to the man without the necessary help and who is not disposed to hire it at ruling wages, far better is it for him to seed down than to only half work the farm under cultivation. There is a danger, however, that this practice may be unwisely increased by the good prices which have which stocker and feeder cattle have sold recenty. As the present situation stands there is a great incentive to grow hay for sale, sell it all off the place and bank the money. Indications point to a short crop of hay we are told in some oi the Eastern counties of Ontario and in Westrn Quebec this year. This has caused growers (o) be figuring on the value of their hay crop already. A short crop means high prices, lese labor and more net returns than a bigger cro old at a low figure.
There is just a possibility that the hay-growing business may be overdone. There are sec-
tions where this crop has been the standby for yea:s, but there are many fields taken out of the cotation which goes with stock farming and placed under hay because it is less labor, and the farmer helieves that in the end it is more profitable. Will it be? This remains to be seen, but one thing is sure, that if the crop is continuous 1. sold off and nothing is replaced the yields must diminish. Timothy is by no means easy on the soil, and an old meadow is largely fimothy until it has been crowded out by the less valuable and more pestiferous Canadian blue grass, which gives small firtis, breeding ground down, and is the most fertile b, reeding ground for wire worms and There is a partial, if not a complete, remedy for some of these sections, and that is graze the

The Farmer's Advocate

## AND HनME MAGAZINE

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.
PUBLISHED WEEKLIY BY
THE WILLIAM WELD COMPANV (LIMTED)
JOHN WELD, MANÁGER.
Agente for "The Farmer's Advocate and Home Journal,"

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NDON, CANAD
grazing as much of the land is far too valuable for this class of farming, but where the owner or renter is bent on seeding down he should either keep enough cows to raise young stock to graz on it or should purchase cattle. At the present time with stockers so high the former would be the better plan. When stockers may be had at a reasonable price some could be picked up for grazing, and it looks as though there would be no trouble in selling them either as feeders or
finished beef for some years to come. Some of the hay would be necessary to feed the cows or store cattle over winter, and thus at least a part of the crop would be returned to the land which grew it. "This is not as good as return bread,"' and selling haly continuously vear after year must eventually lead to the no-bread stage year must eventually lead to the no-bread stage during the summer that your land may not heas come impoverished and force you to not be your old age.

Nature's Diary.
By A. B. Klugh, IN.
One of the very daintiest of all the flowers found in our woods is the Star-flower, with its
white, six-pointed star on its deficate i..dicel and
whorl of six pointed leaves. This sumect be readily identified from our illustration, which is from a photograph taken in the N.iw, Bruns
wick woods. wick wooas.

 Canada has ar rather sparse vertilian shun

 from its method of defending itself
at its agreessor. In snapping the rapipitis
which the head is lurched forward rivin dexterity of the rat llesnake. So quick
movement that the eye is barely alle to poll
it. Backed up by a pair of keen-edged, cutting mandibles and jaw muscles of tremendous power the stroke of one of these reptiles is decidedly dangerous. As in their haunts these turtles lie
embedded in the mud at the bottom of the water embedded in the mud at the bottom of the water,
the rapid movements of the head and neck are important in the capture of fish which form a large portion of their food. Beside. fish the Snapping Turtle eats young water-fowl, whick it
stalks beneath the surface of the water, seizes stalks beneath the surface of the water, seize
by a quick dart of the jaws and pulls down to drown and he devoured. It never feeds unles under water, and if it captures prey on the bank
it retreats into the water to devour it. In fact it retreats into the water to devour it. In fact
it seems unable to swallow unless under water. it seems unable the early summer the female leaves the water and prowls about seeking for a place to deposit her eggs. She often wanders som


Fig. 1-Star Flower
distance from the water, and selecting a suitable
spot, scoops away the earth to form spot, scoops away the earth to form a hollow loose earth falls over her. Thus she is hidden until the eggs, which usually number about two rears up, and the earth which has been on her back falls over and covers the eggs. The eggs At my summer cottage at Puslinch Lake I ha A garden on the bank of the lake, and Snappin
Turtles found the loose soil of the garden so Turtles found the loose soil of the garden so
much to their liking that they were always dig ging up my young tomato plants in excavating their nests. Turtles are wonderfully tenacious of life, and
an excised heart of one of these reptiles will beat an excised heart of one of these reptiles will beat
for hours after removal from the body as long as it is kept moist. ${ }_{\text {A }}$ fish which has a very wide range in Can ada is the Lake Trout or Namaycusn, often als the large lakes, and in many of the smaller ones from New Brunswick to Vancouver Island and northward to Labrador, Hudson Bay and Alaska


Fig. 2-Bluets

\section*{is several feet, and a weight of sixty to a hum-} | Disht is ahout fiftocen pounds. This speries is |
| :--- | Thul Lakie Trout spawns on the reefs and lives, anown trein on water The spawning "r, It late dmpon the height of the spawning


ing with a spoon or a live minnow, and by com mercial fishermen with gill-nets or pound-nets.
The Lake Trout fisheries of the Great are exceeded in value only by those of the Whitefish. At one time this species was abundant that it did not command a price at al commensurate with Th edible qualities, but of prices have soared. This is one of the the which has yielded most satisfactory results with artificial propagation, and the Government hatch eries have succeeded in arresting the depletion of the supply.

## THE HORSE.

If you have a real good colt lay plans to ex-
hibit him next fall. Hard-worked horse at grass must have grain, or they will fail in condition.

It seldom pays to leave an inferior colt for a
stallion. Better castrate him. stallion. Better castrate him.

Grade stallions must go in a few years. As
far as your breeding operations are concerned far as your breeding ope
they should be gone now.

We all like to see filly foals, but a horse colt of the right kind will make a profitable gelding
if he is not good enough for stud purposes

A good horse race still draws a crowd Fifteen thousand were present at the Woodbine
on opening day, and twelve thousand on the secon opening
ond day.

A good feed of grass is a great system to build up his condition by being allowed a free zun on pasture for a time.

If the right kind of a stallion does not come close to the farm, it will pay to lose a little time from the regular farm work and take the

Get the mare bred as soon as possible now not advisable to be in is here. It is sometimes when the weather is cold, as more difficulty is generally experienced in getting the mares with
foal

Indigestion in Horses-III.
Spasmodic Colic.-Probably the most com-
mon form of indigestion in horses is that form commonly known as "spasmodic colic." It consists in a spasmodic contraction of a por-
tion or portions of the muscular coats of the tion or portions of the muscular coats of the
intestines, usually of the small intestine. It is not uncommon for the muscular fibres of the neck is usually due be also involved. The disease feeding, sudden changes of diet, exhaustion from over work, particularly if associated, with long
fasting. A drink of cold water may cause it especially if the animal be exhausted by a long journey or several hours hard work, or be exces-
sively watered. Some horses are particularly sively watered. Some horses are particularly predisposed to attacks, such as those in which
there are concretions of different kinds in the intestines, abscesses in the mesentery, parasites in
the intestines, ulcers in the stomach or inthe intestines, ulcers in the stomach or intestines, cancer or chronic thickening of the in-
testinal walls; also those with concenitally or actuired weakness of the digestive powers or disease of the digestive glands.
While simple spasmodic colic is a comparative-
ly unimportant disease which readily yields to ly unimportant disease which readily yields to
treatment in most cases, fatal cases have oc-
curred the pat curred, the patient dying from exhaustion, and a post mortem revealing no lexions or chronic
disease of the digestive tract, the only abnormal conditions being a rigid contraction of small porof colicky pains occurring in a horse without apparent cause indicate some structural change in the digestive organs, in many cases the presence such be present and are movable, we are justified in ussuming that they occasionally, by change of position, occlude the canal, and thereby check The backward passage of faecal matter, check cases the violent movements of the animal are likely to dislodge the obstruction, reopen the canal and consequentiy relieve pain. In other cases the ohstruction does not become dislodged, several hours inflammation of the bowels results
and cansus death. A post mortem reveals the
presence of a calculus or tumo:. The presenc
of turaors is more frequently found in aged gre horses, they being what are known as melanotic horses, never in dark-colored animals. In such cases the presence of obstructions can only be
suspected until after death, as the attacks may suspede to other causes. In the latter cases they
be due
may be prevented by tonics, ful feeding, but in the former nothing can be done that will prevent them. A horse that is pre disposed to colic from any cause is a very unde
sirable animal to own, as sooner or later it highly probable that an attack will prove fatal.
Some horses suffer from colic if allowed water shortly after a meal, others if given a change o
food, others if fed certain kinds of When such a tendency to attacks is noticed they can usually be prevented by exercising care not
to subject the horse to the conditions that cause to subject the
the attacks.

Symptoms.-These usually appear suddenly
and are very violent and alarming. The patient suddenly expresses pain by pawing, kickviolently, rolling and struggling, jumping sudden ly to his feet, probably repeating these actions,
and in other cases shaking himself, becoming quiet and commencing to eat as though nothing were pains. recur, sometimes in an aggravated and sometimes in a modified form. During the at-
tacks the pulse is full and frequent, but during tacks the pulse is full and frequent, but during
the intervals of ease it is normal. They may occur again and again, the periods of pain and
of ease being of various duration, until the aniof ease being of various duration, until the ani-
mal is relieved by treatment or spontaneous cure mal is relieved by treatment or spontaneous cure
or the disease becomes complicated by inflamatory or the disease becomes complicated by inflamatory ly. At the commencement of an attack faeces are often voided frequently and in small quan tities, and may be either soft or hard and ther tities of nurine. In other cases there is noticed
then frequent but ineffectual a ttempts to urinate These symptoms indicate that the neck of the bladder is involved in the spasms, and as a
consequence urine cannot be voided. This leads the uninitiated to conclude that the horse is suffering from disease of the organs of urination This idea is very common. The owner or driver
decides that there is an obstruction in the urinary passage, and proceeds to remove it b giving a dose of sweet spirits of nitre. This usually is followed by relief, but it does not act as is generally supposed. It will not remove
obstructions, but it relieves the spasm of the neck of the bladder and hence allows escape o urine, after which the horse will probably show
no more pain. How often do we hear no more pain. How often do we hear a man
telling about his horse being very sick from " stoppage of his water"; he gave him a dose o sweet nitre, he urinated and was "all right."
The fact being, the dose relieved the contriction The fact being, the dose relieved the contraction, If there be an occlusion of the u-inary passag from other causes than that mentioned the treat ment named would make matters worse, because the drug, as well as being antispasmodic in
creases the activity of the kidneys but does no remove obstructions, hence it causes an increased flow of urine into the bladder, but does not re move the obstruction that prevents its escap from the organ. During the paroxysms or coira
the pulse becomes altered as stated, the respira tions are tolso accelerated and in some cases perspiration is profuse. During the intervals of ease
these functions become normal. The symptom these functions become normal. The symptoms
while usually short, are generally more violent and alarming than those of more serious intestinal diseases.
Treatment.-In many cases "a spontaneous
cure takes few minutes to an hour or two, but it is advisable to administer an antispasmodic cose in
all cases. The following is a favorite and effective colic drench, viz., $1 \frac{1}{\frac{1}{2}}$ fluid oz, each of
laudanum, tincture of belladonna and sweet spirits of nitre in a pint of cold water. This being the dose for an ordinary-sized horse, young
or small animals or very large animals being given less or more according to conditions. Instead of this we may give 1 to 2 oz. of chloral
hyduate or 2 or 3 fluid drams of chlorform in a pint of coid water. The patient should placed in a roomy, comfortable box stan hor from
dock and carefully watched to prevent him from hurting himself or becoming fast. It is good
practice to give a rectal injection of a couple of practice to give a rectal injection of a couple of
gallons of warm, soapy water. If relief be not apparent in an hour the dose should be rep ated.
If this fails to give relief we may suspect a more serions case than ordinary spasmodic colic or
that the dicease has become complicaterd, and wher. Practicable the services ossional assistance
shomil be procured. If profess cannot be procured the owner will repeat the
dos. vals than one hour, and treat complications as
best hic can. If bloating occur he should treat
as and 2 drams ginger after the acute symptoms
have been allayed.
WHIP

## Conditioning and Preparing Horses

 for Show.hibiting of our readers will be contemplating ex-
tions, and whe of the summer and fall exhibitions, and while it is yet early in the season it is not too early to commence laying plans and Accordingly horses for the contest to come. Farmer and the following article from "The There are two things needful to win at shows The first, of course, is that the horse must be second essential is that the animal meets, but a brought out. It must be got into proper show condition, and trained to deport itself favarably for much in the eves of the judges so counts that unless a horse has been suitably so much so its chances of success are much depreciated, or even may be wholly discounted if the company be
strong. Every season. it happens time strong, Every season it happens time and
again, when two horses run one another closely in point of merit, that it is superior condition that proves the deciding factor in turning the
scales in favor of the one horse. scales in favor of the one horse.
To bring a horse into show
considerable skill and much painstaking atten-


Beehive.
The winner of the 1914 King's Plate. Jockey Guy Burns up. This colt has entered it
has as many firsts to his credit.
Owned by Harry Giddings, Oakville
an unduly bulky diet and do not get enough grain. It will be apparent that, a horse proper tinctly better-fleshed condition than is the case with horses in hard-working condition, which is as often as not signalized by a certain spare or a horse being prepared for the show-ring must be liberally fed on grain, etc., we do not want to work the animal at all severely, as that would work off some of the flesh which is aimed at proIn some measure the feeding is regulated by the individuality of the horse, and it certainly will not answer to feed and treat all horses alike animal happens to be light in the barrel and deficient in depth of rib or girth, it will be desirable that it should carry correspondingly
more flesh but just stopping short mose flesh but just stopping short of actual fatas far as may be, as the greater the horse's condition is the less will the faults obtrude them-
selves. On the other hand, if the selves. On the other hand, if the conformation
is very good and there is a notably well-sprung rib, these favorable points will be brought out ail the more conspicuously if we do not have the horse specially fleshy, so that the
framework may not be unduly covered framework may not be unduly covered up. These in the preparation for show if the most is to be
made of the horse's chances. marde of the horse's chances.
The relatively heavy graining which is callsd
for to produce show condition. combined with the combined with the approaching $r$ ren hard work is to be avoided, a $n$ d only exercise in moderation is admissable,
$m u$ is $t$ necessarly tend to a heating effect. It consequently becomes in-
cumbpnt specially to guard against any harmitul results this direction, or as the result of the
high and fullhigh a nd in ull-
blooded condition blooded condition
$w \mathrm{~h}$ i h is being maintained. To important that frequent bran mashes should be included These have a cooling a n d highly
beneficial action, while green food, may also advanas a regular fea-
ture, but of course in strict moderation, for too much
would tend to enlarge the barrel unduly, besides $1 \mathrm{~m}-$
pairing thp bloom of the condition. eschewed, as being too heating and
tion, but it is an art that may be learned by anyone, and there is no special mystery attaching factors are to be named as playing a part in the conditioning process, these, briefly summed up, embodying also the needful training, which necessarily varies much according to the class of horse shown. The Hackney, for instance, requires quite a
different system of schooling for the show-ring froment show Hunter, or a horse intended to be entered in a hack class. It is difficult to define in so many words on paper what degree of bodily
condition exactly is to be aimed at in preparing a horse for show, but to give, at any rate, some iangible information regarding this all-important point, it may, to speak roughly, be stated that
horses of the light division require to be shown horses of the light division require to be shown
in a nicely-fleshed or what might suitably be described as a fresh condition, or they may even be on the lusty side; but they should not be in
such a fleshy, not to say fat condition as it is such a fleshy, not to say fat condition as it is
customary to demand in the Shire and other heavy-draft breeds. A horse in show form should have the ribs nicely covered with flesh, the flank should be full and the crest line of the neck well
filled out as becomes a well-fed horse, while it filled out as hecomes a well-fed horse, while it
should the straight in the barrel. But while the
latter should not be in the latter should not be in the least tucked up, it
must not, on the other hand, be too big or
gross, such as is seen in horses that are fed on
legs. Usually oats alone will fully suffice, in the way of grain, for alone will fully suffice, in the way of grain, for
bringing a horse into good show form. If, how-
ever, the addition of some stronger foad is ever, the addition of some stronger foad is
deemed desirable, peas will best meet the requiredeemed desirable, peas will best meet the require-
ments of the case, but they should be supplied only quite sparingly. These will engender plenty
of spirit and mettle, though, ordinarily, high of spirit and mettle, though, ordinarily, high
feeding on oats will do all that is needful in this feeding on oats will do all that is needful in this
divection. However, here, as in other. respects. However, here, as in other. respects,
one must study a horse's individuality and feed accordingly.
The use of condiments and condition powders is optional. Many set great store by these, but
it will be found that they can generally be dispensed with, and powders and drugs do not have a wholesome effect when regularly used, though
a course of alterative powders will prove useful course of alterative powders will prove useful it frequently does when a horse is highly fed. For the purpose of improving the coat there is little may with advantage be regularly given, as it is a good conditioning food and withal whole some. A little linseed oil occasionally may also be recommended, to assist the action of the and which consequently are inclined to scour under excitement. When a horse is poor or has
been lying out in the rough, it will need some been lying out in the rough, it will need some extra pushing on to get him into good condition.
Apart from having them thoroughly trained
as flatulent colic, which will be coctice to ar

## THE FARMER'S ADVOCATE.

or schooled to carry themseives well and move witti balance, one great secret of getting horses
to show to the bost advantage in the ring is $t$ have them above themselves, so that they may be in mettlesome mood. Never will a horse move
with more vigor and stride out more gaily than with more vigor and stride out more gaily than
when in the spirited condition resulting from his when in the spirited condition resulting beans," as grooms ddscribe it. This is attained by dint of
high feeding and abstention from too much exercise or work. Particularly when a horse is of soft constitution and none to stout-hearted will it be desirable to restrict the exercise, healthy
frisky. regard to the exercise, this should chiefly
In regard to the exercise, this should chiefly
In a slow order, consisting of plenty of waikbe of a slow order, consisting of trotting at a
ing, interspersed with bouts medium pace. Such slow exercise will help to fetch up the muscle as effectually as for show purposes, if enough is given, and has for show purposes, horse. It will be well to exercise the animal
plentifully in a circle so that he becomes acplentifully in a circle so that he becomes
cuistomed to moving around in the show-ring. good form of exercise consists in lungeing, a side rein, lastened to the rodter, being worn on the
outside, in order to keep the head straight, or outside, in order to keep the head straight, or
we may put these side zeins on both sides. Their we may put these side yeins on both sides. Their and promoting balance of movement.
A horse being conditioned for show cannot be beomed and strapped at any rate twice a.day, and quite two be done at any rate be spent on this, preferably onger: Besides putting the requisite gloss and loom on the coat, reai hard strapping promotes he health, which is a very important considerahighly fed, and not getting over-much work. A sleek coat is obtained if the horse is left un-
clipped in the winter, though, of course, it may clipped in the winter, though, of course, it may that season, but if it can be conveniently managed, then it will certainly be best to refrain
from having the winter coat on a horse intended to be shown clipped. An essential part of the onditioning process is to keep the horses rugged in the stable, this being indispensable to ensur a glossy coat and a proper bloom of condition It will be well also to bandage the legs regular
y , so as to keep them fine, the high feeding yecessary entailing a tendency for the iegs to fill
If this undesirable feature should make itself If this undesirable feature should make itsel
at all apparent, daily hand rubbing of the back at all apparent, daily hand rubbing of the back
sinews and fetlock joints is to be recommended. Mane and tail must receive careful attention, and if there seems any danger of the horse rubbin the latter, a tail guard must be habitually worn
in the stable to prevent it from becoming dis in the

## LIVE STOCK

## Does Pedigree Save the Scrub

 A writer in an American journal recently high prices which are often paid for pure-bred animals induced breeders to keep all the offspring for breeding purposes to the detriment of the breed and live-stock breeding generagre bemay be that many and them and with very little individuality to back thent up are retained in the herd or ool. to be better turned off to the butcher or put in harness to do the farm work. There is a strongtendency in the direction which the American tendency in the direction which the American
stated, but all breeders cannot be accused stated, but ail breciers Many of the best
following this practice. Min stock men in the country if an inferior animal is bred in the herd discard that cull rather than have the name of stock injured. He would not offer it for sale for breeding purposis
because his reputation depends upon the class of because his reputation depems and
stock he turns out, and an interime individua
matter what kind of a pedigree is behin: not a safie proposition as a meeder. All
importance of the hreeding value of stock does importance of the hreeding vatue of stock
not hinge upon pedigree. Individuality must tak
first place and this, backed up by the best of first place and this, backed up by the best of
blood lines found in the highest class of pedigrees serves to eliminate and
of undesirable variations occurring in live stock breeding. The breeder it for kranted that becalls the animal has a pedigree that it is the animal he wants, and, while in some cases where operations
are carried on, on a small scale and the breede is not endeavoring to establish a reputation ", is not a first-class the inferior individuals for breediny ar.il offer them for sale at a notry pective buyers, this is not generase contempl commencing the business, understand fully thev want and they will not purchase iuferin
animals at high prices. The animal plus th

## pedigree is the measune of value. Neither is

 individuality is valueless.
## Stomach Worms in Sheep.

Chief among the evils that visit the sheepfold and exact an annual toll is the stomach worm. The young lamb is most susceptible to its attacks, and fatality is most pronounced
the immature part of the flock. It should not be confused with the grub worm which lodges in the head, or the tape worm accompanied by a rapacious appetite and wasting of flesh. They are different in their source, habits and effects, and
require different treatment. But all three are require different they attack a flock while in an unhealthy condition, or when running on fields that have pastured sheep for years previous. The sheep runs become infested with all kinds of
vermin, and require changing more often perhaps vermin, and require changing more often perhaps
than do the pasture fields for other kinds of live stock.

The presence of the stomach worm is evidenced by a loss of flesh, general weakness, dullness,
failing appetite, thirst and diarrhoea, but a more failing appeting, diagnosis may be made after a post mortem examination. The fourth stomach is the habitat of these worms, and after the contents are allowed to settle the parasites may be seen in the liquid. They resemble little snakes, but
are only from to $1 \frac{1}{3}$ inches long, and about as thick as an ordinary pin.
The insect comes to maturity and lays its
eggs in the stomach. They pass out with the eggs in the stomach. They pass out with the
intestinal contents and begin hatching in a few days after which they entrench themselves on biades of grass or other objects, and so enforce themselves with covering that they will endure
considerable heat or cold. The grazing sheep considerable heat or cold. The grazing sheep
take them into the stomach where they attach themselves to the walls. From this position they give off certain poisons, appropriate som of the food stuffis of the stomach, and sack quan
tities of blood from the stomach walls. It is usually the flock that is in a run-down condition that suffers most, and it may easily be seen that healthy sheep following those aflected with th one shepherd reports that where the young flock received extra rations of roots, grain and oilcake they seemed invulnerable to the worm. An it is noticeable tially those receiving the extras mentioned, are usually quite free from infestation. Vetches, too, constitute a preventive in some shepherds minds, and other stock raisers claim they have vetches. Shepherds in the United States have and Canatian flockmen have used it with considerable
success. The treatment that has been most success. and effective is the administration of gasoline on three successive days. The evening before the first is given the antmals are shut up without feed or water, and are dosed about ten they are allowed feed and water, and at night
are again shut up without feed or water. The
next morning the second dose is given, and the
third morning the third dose. The treatment before and after the dosing is the same in each case. The size of the dose is: For lambs, ounce; for sheep $\frac{1}{2}$ ounce. The dose for each
animal is measured end mixed separately, and mixed in raw linseed oil, milk or flaxseed tea, ing tube. Gasoline should not be given in water. Great care should be used in drenching to avoid the entrance of the liquid into the lungs

## Washing Sheep

Illustrated in this issue is the practice of washing sheep, a practice which is declining in most of whom prefer to clip their sheep earlier most of whom prefer to clip their sheep earlier
in the season, and dispose of the wool in the unwashed state.
Not so very many years ago nearly every
sheep in the country was washed before bein shorn. During the last days of May or early in June the entire flock was driven away to the nearest stream, penned on the banks while two or three men did the washing, and the small boy î the family fished and eajoyod the sport. Now that most of the flocks are shorn in March or April and are turned out to grass without fleece We believe this is the when wractice as the shearing is accomp, and the sheep are not forced to carry a heavy fleece which has served them as a winter protec tion through the hot and often sultry days of early summer. We have experienced just now a fleeces to suffer considerably. However, there are those who still cling to
the practice of washing, and little can be said against it, provided it is done propealy and done early enough in the season. We would not think of leaving it later than the first week in June,
as the weather becomes hotter and hotter and the sheep suffer more and more every day, and besides there is likely to be a considerable loss
of wool, as with the heat and the loosening flece sheep rub a good deal of it out. Not very many have as bandy a vat for washing as that seen in the illustration. A convenient strean with what the smal boys call a deep hole a
where the water is four or five feet deep witli a gradual sloping bank is the best place to wash the sheep. It is also advisable where possibie to select a spot where the water runs away very
rapidly, because if a large number of sheep is rapidly, because if a large number of she roily and does not do the work as thoroughly as it should. It is not enough to plunge the sheep into the water and allow them to swim around for a very short space of time and not work the
dirt out of the wool. Sheep should be turned upon their backs and the wool on the bellies thoroughly worked with a rake or comb for the purpose or by hand; then the sheep should be
turned over and the back and sides done the well to keep them in the water very long. Get them out as soon as possible,


Washing Sheep

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well for both man and beast that a very warn ay taken not to plunge the sheep into the must water when they are warm as they generally are tmmediately after a long ditye to the washing 5 dace. Pen them up if possible under a shady cool down before commencing to wash. After
the sheep have been washed they should be driven the sheep have been washed they should be driven
steadily home, and left about steadily home, and left about a week before be
ing shorn. It is not well to leave thore ing shorn. it is not well to leave them too
long, as if this is done, very little good comes of washing, as they will collect more dirt and the wool will not be clean. Seven or eight days, or at the most ten, should be enough time
bo elapse between washing and shearing, and durla elapse between washing and shearing, and dur meadow where there is little danger of them get ting dirty
While on this subject it might be well to men
ton that all signs are pointing toward tlon that all signs are pointing toward a littl
more interest in the wool trade. Our Govern more int is endeavoring to further
ment among sheep breeders in the production of a bet ter grade of wool. Grading of wool is coming
and those who produce the highest quality are and those who produce the highest quality are
sure to reap the richest rewards. This does not mean that unwashed wool may not be of hot quality; but it does triean that all kinds and
classes of wool should not be mixed together, classes of wool should not be mixed together
and if they are the grower will eventually have to pay the penalty in a lower price and a slower salle. It will pay every wool producer to care Keep it clean, grade it according to home place insist upon selling it that way. Of course, where only a few sheep are kept it will be necessary fo the breeders in the district to get together an grade their wool together
best prices from the dealers

Unemployed and the Price of Meat. our lest week's stated that now that most of those who, during the winter months, were out of work had found employment, the wholesale butchers were kiliing and selling more beef. Beef has been rathe high in price, and men not getting a regular wage could not affiord to buy it. To create th greatest possible demand it is necessary that all the peopie-not only the well-to-do, but also the have stoped cat rink. have stopped to then that ployed in the cities, but if we are to take our market report evidence it would seem that such has a direct bearing on the demand for cer tain articles produced on the farm. It is ratke important then that all our people have work to eat is equally important they be educate price of this article of diet should not be unduly boosted beyond their reach. In the end th producer of meat would not gain muck by
ahnormally high prices, as these would drive thousands of customers to the use of other classes of food which would ultimately appreciably lower the price of meats, and once the con sumers had jiecome accustomed to other ieod
they would not readily come back to the meat.

The Old Steer Goes
The Board of Directors of the Internationa Live Stock Exposition have decided that after the show of 1914 all classes for three-year-old steers in the ca:-load division will be abandoned proven quite three-year-old show catte have In a good many cases these cattle have proven unprofitable to their feeders. Conditions of the ceat trade are changing rapidly. Feeders and they can get their, cattle on the market the more money will so down in their pockets as profit In this will go down into their pockets nothing like the percentage o three-year-olds and older steers may be found in the stalls during feeding periods as . Was the case only a few years ago. The feeder has 10 und out around, and is making an effort to get all his cattle marketed at two years of age or younger It is a good step forward on the part of the International Exposition to eliminate these older
steers. Exhibitions of this kind are supposed to the
educatice. and we are glad to know that the
largest live-stock show in America is keeping largest live-stock show in America is keeping
abreast of the times. There is no use of en-
couraginir feeders to couraging feeders to keep their catte the seeders
age by making exhibits of them when the fargest
recognizu margine from experience that the frofit is made from earlier finishing
Other show

「HE FARMER'S ADVOCATE

English Show Season Starts. The English outdoor show season has fairly opening - way with a sound of brilliant re-union was held at weston-Super Mare the Somerset County Show was decided whe Newark, where Midland breeders feel their ways for the rest of the year with their young stock. -
Shorthorns were a conspicious feature of the Wharfedale Show. Gold medal for Bulls went.to ing, Maden s ive-year-old roan, Montrave Ethreserve was found in a beautiful white and the of George Harrison's, Hindley Gold by Starlight Yearling bulls were extraordinarily' well-grown, and Capt. Behren's Swinton Sardonyx and St. Clipper-both of them by Swinton Saint-took
the two leading awards in that order. The fe the two leading awards in that order. The fe-
male classes were very satisfactory. The pick was Bankfields Belle, the elder of a pair shown by Richard Cornelius, a Cheshire exhibitor. Both fields by that celebrated sire, Village Beau. Bankfelds Belle had the advantage in age over her the latter beling reserve. Mr. Madion was also a successful exhibitor $\ln$ the female section, getting a first prize with his Lord Canning calf, Rockcliffe Gem 5th, seconds in the two-year-old a
over three-year-old classes, and a third. Yorkshirea-od claswes, and a third.
quality-like. In two-year-olds winner was a mare ton Dray King Colt, Lincoin Dray King, which has big limbs and feet, moves well, and is owned by D. Collins. He took the S.H.S. mpdal. Robert and Yearburgh's Sister Mary won the Mare medal, and headed the Any Age Gelding or Mare class.
She is a mare of immense weight, well ribbed and roomy, and was never shown in better bloom. At the Somerset Show, a great feature is made of Devon cattle. Sam Kidner's old bull Stockleigh Gioldfinder won his class, and a fine
two-year-*ld male was Sir Gilbert Will's Northmoor Vanguard with capital butts and a strong and even back. The best of the females was undoubtedly I. H. Alford's Horridge Belle, a massive, yet com
lovely coat.
In Shorthorns at this West Country Show, all the prizes go to strangers and W. M. Cazalet, a Kent breeder won classes with the cow Cairncosh ful trio, hard to fault. In Guernseys, J. F. Rem-1 nant, M.P., did the chief winning, and in Jerseys Mrs. Evelyn (Surrey), Mrs. McIntosh (Essex), and Mr. A. Miller-Hajlett were leading winnors. At Newark Show the Forshaws did well in
Shires; F. B. Wilkinson and Gee, Harrison in Shires; F. B. Wilkinson and Geev. Harrison in
Shorthorns, and John Evens in Lincoln Reds. The Duke of Portland won a prize in the pig department.
But a lot has not yet started her outdoor shows. the poor farmer over there who cares to venture in good-bred stock. A horse-breeding scheme is now carried out in every county in Ireland but Meath, where the County Council rejected it on account of the refusal of the Department to have
Clydesdale stallions registered for the county. The total number of stallions registered in Ireand for the purpose of assisting stock breeding last year was 393 as compared with 396 in 1912 and 296 in 1909 . They were made up of 181
blood horses, 106 half-breed, 75 Clydesdale, 19 blood horses, 106 halif-breed, 75 Clydesdale, 19
Shire, and 12 Irish Draught stallions. At 229 local exhibitions 5,624 mares were passed as sound and suitable for nominations to be served by registered stallions. The sum of $£ 10,000$ was granted from the Development Fund for the purIrish Draught Horse Scheme, in addition to funds supplied by the Department. The cattle-breeding scheme was adopted in every county. For it the amount expended in 1918 was $£ 18,082$. The was 900 of which 592 were Shorthorna, 185 Aberdeen-Angus, 67 Hereford, and 56 other breeds. Similar though smaller schemes were carried out for sheep and pigs. T. BURROWS.
London, Eng.

Stockmen turning their stock on the pasture in the spring should see that tney are free from vermin, such as lice and ticks. Anything of this will decrease appreciably the summer gains... The sheep have been shorn, should be dipped and thoroughly freed from this pest. Cattle should be treated with insect powder or lotions prepared
especially for the purpose, and every precaution taken that the stock will not be tormented by taken that the stock will not be tormented by
vernin that the farmer can easily free them fom.
Flies will give them trouble enough.

## THE FARM.

## Farm Engineering. <br> WATER WHEELS

In general water wheels may be classified as gravity, impulse ' and reaction wheels. The
gravity type are operated directly by the weigh of the falling water exerted through its falling distance. Such are the breast and overshot wheels represented diagrammatically in Figs. ${ }^{1}{ }^{1}$ and 2. They are used solely in small plants,

and are not very efficient under normal condi tions. The efficiency of the breast wheel range from 55 to 65 per, cent., and that of the over
shot from 65 to 75 per cent. under shot from 65 to
ditions. feet, the breast wheel is quite generally used. slightly greater fall, say 6 or 8 feet, usually re sults in the choice of the overshot wheel. In the latter form the total force exerted by the
water is due to its weight and it is a true


Fig. 2.
gravity type, but in the breast wheel some of the is utilized. These gravity wheeis are advocated for slight
falls of from 3 to 8 feet, or thereabouts, for falls of from 3 to 8 feet, or thereabouts, for small installations largely because of the fact
that small turbines for slight falls are apt to be of low grade materials and poor design. The gravity wheels are müch easier made and in-
stalled. In fact frequently overshot wheels are


UNDERSHOT WHEEL
constructed by the farmer himself. This may be any form of wheel with buckets on the circumference so that water wiil be retained and the
weight thereof give a turning motion to the weight thereof give a turning motion to
wheel. Even board wheels of rough design and construction will give considerable power.
Impulse wheels are those in which the tot Impulse wheels are those in which the total
energy supplied is from the movement of the runenergy supplied is from the movement of the run-
ning water. The type of undershot wheel in ing water. The type of undershot whee
Fig. 3 and the Pelton wheel of Fig. 4 are ex-
clas.
while the undershot amples of this class. While the undershot wheel is perhaps the least efficient of all water wheels (from 25 per cent. to is per cont. unditions), the Pelton is the most efficient. Under favorable conditions the latter reaches 85 per cent., and in all intelligent installations
efficiency runs well over 75 per cent. A running stream having slight fall furnishes opportunity for the common mill wheel of the
Where used, the stream is narundershot type. Where used, the sheel, thus giving the wheel the benefit of all of the water in the stream running at a somewhat greater velocity than in the open strear. and is not to
rapidly disappearing altogether,
be recommended if other types may be installed.
be recommended if other types may be installed.

Fig.
Frequently in order to use another type as, for example, the breast wheel, a dam would need to
be constructed to get a sufficient fall of water be constructed to get a sumcenter is a cross be-
There is a low breast wheel which is a tween the breast wheel and the undershot. This foot or where the maximum fall is slight, say a
fhe delivery of the water is not opposite the shaft but is sornewhat below, being wheel 'in Fig. 4. The Pelton wheel is increasing in use, and to-
gether with the turbine is universally installed gether with the turbine is universally installed
in plants of any considerable size. For all in plants of any considerable size. Nor all
heads above 8 or 10 feet this wheel equals the
turbine in efliciency. Jor heads less than 20 to turbine in efficiency. For heads less than 20 to 25 feet, however, the amount of water used by
the Pelton makes the turbine somewhat more


Fig. 6
economical. Above twenty feet there is little choice from efflciency or cost of operation until high heads of from 100 to 2,500 feet are reached.
With these there can be little choice between the two, the Pelton being greatly superior. The principle of operation makes a high head de sirable with the Pelton wheel. The higher the head the less the amount of water required to
develop a given power. Hence, the lower the cost of installation for provision need be mad to convey only a slight amount of water.
The power of a Pelton wheel depends solely The power of a Pelton wheel depends solely
upon the head and the amount of water supplied to the wheel. The diameter of the wheel mere-
ly determines the sped at which it russ, and to
from the nozzle, the buckets against which the
water strikes must be large enough for the full must be large enough to carry the buckets. must Most of the so-called water motorsi are of the Pelton type. They run in price from $\$ 30$ for the little 6 -inch motor weighing 50 pounds up
$\$ 275$ for the 24 -inch size weighing 860 pounds. Turbines are of the reaction class of wheels, the reaction of the water as it leaves the vanes
furnishing the "kick" which propels the wheel. furnishing the ok wheel in distinction from all others shown the water acts around the entire circumference at once. The efficiency of the wheel
depends largely upon the design and carefulness depends largely upon the design and carefulness
of installation. It may be anywhere from 55 per cent. up to 85 per cent. It is best adapted
for low and moderate heads, especially where the for low and moderate heads, especially where the
head varies greatly. from time to timie. It head varies greatly. from time to time. It
operates at higher speeds than the other wheels, and will perform its work even if set below the level of the tail water. Low heads and large quantities
turbine. turbine.
Nova
Scotia. $\qquad$
The Farrow Cow and Others
I don't know that I ever sat down to write an article when feeling so full of improving thoughts as I do at this blessed minute. A lot of things have happened lately, and "ot the point were of the kind that seem designed "To point
a moral and adorn a tale." To begin with, the boy and I were working in the garden yesterday, when I happened to notice some dark object on the ground between two of the cows that were
lying down in the pasture, up near the woods lying down in the pasture, up near the woods.
I ventured the opinion that it was a newly arrived and not unexpected calf. The boy took a look and said it was a stone. I could not remember having seen a stone in that place, but
I was busy and did not stop to argue the matter


## Sowing Turnips. <br> - Sowing Turnips

The turnip is still of great importance in After a while I chanced to look up again and saw that all the cattle in the pasture had gatheraround the dark object on the ground and
were sniffing at it. Once more $I$ ventured the were snifling at it. Once mo
opinion that it was a calf,
"But that is not where the sows were when ou were looking at them before.
"Why, yes it is."
"Don't talk nonsense. Don't y'ou think I can remember where the cows were when I was looking at them? And that call or whatever it is, is lying exactly where it was when I spoke to
you about it." you about it
"But it was not there they were at all. And as clear as can be.". My temper
stone about ten rods to the east of the object a was looking at. A couple of questions brought same couple of cows, nor at been looking at the same couple of cows, nor at the same object on
the ground. That explained everything, and while we were settling the matter the dark object I had been looking at grot up and began to stagger
around on wobbly legs. It was certainly around on wobbly legs. It was certainly a calf.
But you can see the lesson to be learned from the But you can see the lesson to be learned from the
incidant, can't you? Before you get into a red hot argument with anyone be sure that you red-
talking about the same thing. Thus endeth the st lesson

The call belonged to the purposeful and
trong-minded red tow to whom I have referred strong-minded red tow to whom I have referred at various times in this correspondence as
"Fenceviewer $I$ "."; She is the one that ate a "Fenceviewer I."," She is the one that ate a tubi-"
ful of corn last spring and got away with it without turning a hair. Since then her predatory exploits have been so numerous that she has been re-named, and is now known as "Calam-
ity.," Of course she was very proud of her calt Of course she was very proud of her calf,
and mooed solicitously when we approached to examine it. But strange to say she was not
nearly so excited about it as her nearly so excited about it as her oldest daugh-
ter, a quiet and hitherto well-behaved cow that has been milking all winter and is' farrow this season. Judging from her actions she had adopted the new calp, and had taken out adoption papers before we arrived on the scene. She
au around and bawled and acted silly as soon as I began to push the calf towards the barn. By the way, pushing a young calf that braces its front legs and insists. on lying down every
couple of rods while its real mother and an diotic farrow cow are threatening to run aver you all the time, is a job that is rather trying on the temper. But I finally got it through the gate,
and proceeded to push it along towards the and proceeded to push it along towards the mother objected, of course, and bawled her protest as loudiy and ineffiectively as a loyal $O$ pa railway subsidy. But the farrow cow made as much noise as a self-elected reformer. She stood by the gate and pumped up basso-profundo
bawls from her second or lower stomach. Every time she bawled she humped her back and: moved her tail up and down like the handle of an old-
fashioned wooden pump. But I paid no attenfashioned wooden pump. But I paid no atten-
tion to her. I could not see where her feelings were being lacerated, and I kept right on picking up the calf and setting him on his wobbly legs and pushing him towards the drive-shed. gone down again I was startled by a yell behind me. I turned hastily, just in time to see the
farrow cow in the act farrow cow in the act
of shzedding herself through a tight barbed
wire fence. I was too and, to head her offi, struggles, Ifelt that when she got through
she would be of no use she would be of no use
or anything but Hamror anything but Ham-
bur steak, and I re-
flected with some satisflected with some satis-
faction that the n W action that the new
onions in the garden are onions in the garden are
ready to be used for a meat garnish. But when
she got through she she got through she
did not sink on the earth in a pile of little pieces as I expected, but
ran like a deer, bawling like a rog-horn, to where
a calf that had been weaned the day before was bleating for its
mother. mother. By this time excited and was threatening to follow her fool
daughter throughj the barbed wire fence. And had been taken the the cow whose call
into before also went ever so much noise and excitement on the farm as there was for and excitement on The boy kept Calamity from going through the fence, and I opened the door of the drive-shed
and hurled the caif under the buggy, where it lay down once more with a little grunt of satisfaction. Then I went after the farrow cow to
see how much she was damaged. It seems insee how much she was damaged. It eeems in
credible, but there was not acratch vielible on her silly carcase. Now, will some learned man please explain how that could be possible. Whenever I try to go through a barbed wire Cence, even though I go at it with the greatest
circumspection and care, the barbs catch in my hat, coat, trousers and stockings, and even
catch the rag on my sore fing catch the rag on my sore finger-not to mention
the bias patches they tear out of the most senthe bias patches they tear out of the most sen-
sitive skin in Middlesex County. And yet that cow ripped through that fence by brute force and didn't get a scratch that was visible to the place I had to capture each cow and lead her into the stable. I had to put in the three of them before they would stop threatening to com mit hari-kari on the barbed wire fence. As I
think over the occurrence the lesson that sticks in my mind is that the farrow cow was wonderfully like a professional reformer. Though her interests were not involved in any way she made
worked up than the cow that was really a word of praisis. I admit that this lesson came home to me with great force

Though I got the cows the stable the ex citement was by no means over. The corv that had lost her calf the day before is a kicker by
nature, but' after getting excited she simply re
fused to be touched when milking time cam around. When she was being broken in last yea sympathetic readers sent me many receipts fo conquering a kicking cow but in the state sh
was in none of them was of any use. Though was in none of from kicking by tying a stra around her hind legs and another around her ody in front of the udder, my friends neglected on top of the milker. But just when I was in on top of the mis trouble an experienced milker
the thick of this
came along and gave me a plan that was so came along and gave me a plan that was so
simple that it seemed silly. I took of my leg and body straps and then took a rope and loope
it loosely across the cow's back in front of the hip bones and then tied it behind so that the rope rested loosely against the knees. There was no pressure of any kind. The rope simply hung around her rump and lay against her hind legs
This plan had not been recommended by any of my correspondents, but it worked like a charm She would lift her feet but would not kick and she gradually quieted down. Apparently that
loose rope gave her much the same feeling that loose rope gave her much the same feeling that
we humans have when our clothes begin to come undone in some public place. We do not fee like putting forth violent efforts of any kind Anyway' it was the conquering scheme and I pass
it along to all who may be having trouble with ticking cows. And the lesson to be learned from ticking cows. And the lesson to be learned from
that is-Pskaw! I forget just what lesson I was
going to draw from the kicking cow.

## THE DAIRY.

How Cheddar Cheese is Made in England.
In the making of Cheddar Cheese, perhaps the first essential is pure, sweet milk of good quality dairy and its and sweet, not only must th end no rart it wes cose as a larder or store for vegetables, paraffin, etc. tilated. Above all, the udders and teats of the cows, and the hands of the milkers, must be thoroughly washed before milking, and the greatest care taken to prevent any impurities getting
into the milk. This cannot be insisted upon too into the milk. This cannot be insisted upon too
strongly, as there is not the slightest doubt but that large quantities of milk are thus irretrievably ruined for the making of fine cheese before
coming into the dairy, and it is only by the most strict and constant supervision that this can be prevented.
ceiver, about eighteen inches square, placed in the most convenient position outside the dairy,
so that by a short open shoot it can pass through so that by a short open shoot it can pass through
the wall inte the cheese-tub, being thoroughly strained in the passage, thus doing away with the necessity' of the milkers entering the dairy. The evening's milk can generally remain in the
cheese-tub during the night. When the temperature is high, an occasional stirring is useful; but in damp, hot, moist weather, or during electrical
disturbances.
some of it should be placed in other vessels.
In the morning the first duty of the careful cheese-maker is to examine the condionible, the morning's milk only should be heated; as a rule to the end of August. The night's mill is skimmed, and the cream put in with the milk to be heated in a tin vessel called a warmer, surto as being in the boiler house, and in which whey is also heated. Particular care mist taken not to exceed a temperature of $95^{\circ}{ }^{\circ}$ By
this the united milk should be raised to $84^{\circ}$; but
by the end of June it can be reduced to $82^{\circ}$. A by the end of June it can be reduced
little sour whey may be added in the earlier a
later later months, but its regular use cannot be
recommended. When annatto is used, it must be well stirred
in, aud sufficient rennet added to coagulate the milk in sixty minutes. The thorough mixing of the milk and rennet is very important, and should
occupy about ten minutes, not only for its thoroccupy about ten minutes, not on to prevent the
ough incorporation, but also the
cream rising to the surface. The tub should then be covered oover till coagulation is complete, in
order to guard against a too rapid fall in the
till break clean the milk. By the time the curd delicate operation of breaking should begin This is facilitated by the use of should begin. ong enough to reach the bottom of thin hnife, cutting the curd into squares of about two It and for the whey be left a few minutes to harden of a shovel-breaker, the splitting of by the use
its do own grain commences. This at first must be get white and loss of caualion, or the whey will should increase as the curd hardens-always taking care that it is regularly broken, and not smashed, until it is the size of a pea, and the
whey of a greenish hue; the time of this Whey of a greenish hue; the time of this opera-
tion depends somewhat upon the quantity dealt with, but it should take from fifty to sixty min utes. The mass is now allowed to settle for is minutes, when, with a syphon sufficient whey than $130^{\circ}$, would raise the whole to $90^{\circ}$, During the application of this whey the curd must be well stirred and mixed. A further rest of ten off for heating to when renough whey is drawn lowered till it only covers the curd by about two inches. The heated whey is poured in a smal stream over the curd, the operator labing the broken up and incorporated with it, the thermo meter being frequently used, until it stands at $100^{\circ}$, the limit desired; but the stirring must be continued until the curd becomes shotty and is and green. This operation takes from ten to thirty minutes, but if the curd does not harden sufficiently fast and the temperature falls quickly, it would be best to add more hot whey so as to
retain the heat at $100^{\circ}$. The curd now rests
The curd now rests for 10 minutes, or if it is
sufficiently acid, a shorter period will do, when all the whey is let off, and the curd piled as high as possible in the centre of the tub. Then all the crumbs are carefully' washed down, strained,
and placed on top of the mound. Cover and keep and placed on top of the mound. Cover and kee
it warm with cloths until it has become suff ciently solid to cut into large pieces. These should be so coagulated as to be turned over without breaking. And the process of cutting
piling up, I changing, and so on, goes on piling up, changing, and so on, goes on
for another short time, until the curd presents a rich, dry, mellow, solid appear-
ance and a perceptible amount of acidity ance and a perceptible amount of acídity cover by taste and smell. This you can dis dround, and should look a ragged, solid curd, A fine, clean, dry salt must be used at the rat salt must be thoroughly mixed. At this toint the temperature of the curd should be about $70^{\circ}$ It should be put into the vat or mould, lined with a thin cloth, large enough to cover the
cheese, placed in the press, where it has a pressur of about twenty hundredweight, and allowed to remain there until next morning, when the cloth
is changed, the portion of the cheese inverted and is changed, the portion of the cheese inverted and replaced in the press for another twenty-1our it and prevent cracks. Then cover it with muslin and replace the cheese in the press for forty eight hours more. Next, bandage it and take it daily for six weeks. Next take it to the cooler daily for six weeks. Next take it to the cooler
cheese-room and turn it over every' day until it
is three months old. Then you can turn it over is three months old. Then you can turn it over London, Eng. $\qquad$ at to sell it.
T. BURROWS.

## The Difference in Cows

What doth it proft a farmer it he do all the labor and lose all the pront? ${ }^{\text {a }}$ A member of the
family of a Wellington County, Ontario , farmer showed me a report containing two nomes, the
same as mv own, and asked me it K Knew the parties. "Yes" snid T. atter looking at the
names on the reporti. This was the monthy report of the Guelph Creamery, for Apri, in which are published the names of the twelve patrons,
who send the sreateest number of pounds of butterfat to the creamery. Tr read the report,
and sav the names of five other farmers of the
 ittue corner of one very small county wat mable to take more than one hatif ion compas antion
where iffteen or twenty counties were competink Where fifteen or twenty counties were competing,
set me thinkine and looking for a reason. My thoughts were like those of a famous duelist
 rushod chasing countloss thourhts along," My
frist thoughts were, why did Wellington with its
numerous large townships of well-watered fertile soil, not win a majority, or at least a few of
those twelve places of honor? My next thoughts were of the Experimental Farm, right in the very midst of the county, where students flock from the uttermost parts of the earth, to learn what branch of agricuiture is the most profitable, and Wellingto best pursue it. One would think that rom those experiments and suggestions than ould farmers of any other county in Canada being, as it were, almost under the verandah o institution.
The O.A.C. is perhaps like the prophet that am sure I can tell the reader why wellington did not and why Elgin did secure seveh out of he twelve highest positions in the report of that ast creamery which, in all probability taps fron ington County the land is not at fault; nor are the buildings, nor the feeding. What then ca be? I'll venture that it is the class of cow ne that his cows bring him about threo dollar each per month, while fresh. I have also learned rom various sources that three to flve dollar ach per month is pretty general throughout th and plodded along for many years in the same old rut with poor cows-all short-milkers bu ong-feeders. I was one of Elgin's blind-followers fhank blind for about twenty years. We now
the agricultural papers, Experimental Sta tions, etc., for teaching us what to do and how o do it? Upon thair suggestions we disposed o dolar-a-month cows, supplanting dollars a month in, cheese or cream and leave us vast quantities of whey or separated milk for urther profit. This is how Elgin patrons, all of twelve in the Roll of Honor of the Guelph reamery. Of these seven winners, N. H. Ir Conley, Roy Nevill and Cecil Nevill have herds pure-bred Holsteins and all the rest have herd hink is the best breed of dairy coltw, what they Continent.
Here is a statement of the proceeds from one
ow, owned by Roy Nevill, for 1918. ,
$\begin{array}{lr}\text { Cream sold at Guelph, } . . . . . . . . . . . . . . . . . ~ & \$ 150.00 \\ \text { Estimated value of separated milk, } \\ 40.00\end{array}$ Calf (male) sold of

This cow is doing even better this year. How rgy with farmers continue to exhaust their en ergy with poor instruments (pioor cows) whe
the good are easily secured. JAMES NEVILL.
Wellington Co., Ont.

Whole-Milk vs. Cream-Gathering Creamery.
Fiditor "The Farmer's Advocate": well-known The following quotation from a well-know Produce Trade Journal revives the old conand cream-gathering forms of creameries:
"Dealers complain of the quality of Eastern townships creamery butter being deprived of its former excellence through the use of hand separators by the farmers who make their own the butter is made from cream supplied by a number of farmers, no two of which contribute the same quality of cream. Consequently it is impossible for the factorymen to turn out the same uniform quality of butter as when the milk was taken to the factory, and the makess
skimmed their own cream." The foregoing statement, combined with the remarks of a large dealer in Toronto, with whom
we were talking recently, and who said that he was handling the butter from the only whole-milk creamery in Western Ontario, and found it always of good quality, hence he could pay a higher
price for the butter, again raises the question as to whether or not we are adopting a wise policy in the conducting of the creamery business, more particularly in Western Ontario. In some part lation is fairly large. If we can combine this
with a system of good roads, it is the conviction with a syster that we shall go back to the whole-milk creamery, particularly if we are com-
pelled to find an export outlet for our surplus pelled to find an export outtet
butter. It is all very well to theorize about a farmer heing able to take care of a smal amount of creain better than hat there is no reason why he should not
and that
be able to deliver cream to a creamery in better

## THE FARMER'S ADVOCATE

condition than he can milk, the fact.is, he is no doing so Experience in every country of the
world where the two systems have been tried, has been the same-a change from whole-milk cream-gathering creamery has resulted in an in ferior quelity of butter. The Danes tried cream collecting in a few places but soon dropped it made in the separator creamertes.
If it were not for the expense of hauling the whole-milk to the creamery, and returning the skim-milk to the farm, it would be a good policy to revert to the milk-delivery plan in the olderis that the quality of butter made has not been nearly so good since the change from milk to cream delivery. The only thing that saves our reputation is pasteurization. It were not io good quality of butter under a system of cream delivery two or three times a week. No class o men are so interested, or should be so much con cerned in Good Roads as Dairymen, including might be giod policy to levy a tax on every pound of butter or cheese made, and on every tin of condensed milk for the purpose of making good roads to the dairy manufacturers of Can dition by Government or other authority, then small tax would keep them in repair locally, and everyone sending milk and cream, or manufactur ing t the same, would reap a direct benofit Under our present road system inction of whole milk creameries, yet in the long run, we belleve this is the best form of local creamery, not con sidering the large concerns in the centres of opu material by rail For such the cream-col lecting creamery is the only form practicable.
OBJECTIONS TO WHOLE-MILK CREAMERY In addition to the cost of haulage, othe among which are

1. The quality of the skim-milk returned is not good for stock, and there is danger spreading disease rominated skim-milk.
There is probably something in this a:gument but it has been overcome in other countries, by rapid cooling of the milk at the farm, and de livery at the creamery in a sweet condition. Thi enables the before souring and pasteurization of the skim-milk at the creamery and before returning to the farm, a better and safer quality of skim milk is returned to the rarm than if the skim milk had been liking and separating At thes creameries the milk pipes and the skim-milk tank are kept sweet and clean. Many Ontario cream erymen have themselves to blame for thei patrons demanding a change from milk to cream
We remember meeting a farmer on the train one day, who said he had just bought a hand separator, and that he would not take anothe pound of milk to the creamery, because as he ex pressed i, He said the trouble was caused by the creamery man not washing the skim-milk tank. In this case, both skim-mik and buttermik were run in was seld
2. The second objection raised is that is
costs more to manufacture the butter in a milk as compared with a cream-gathering creamery. This is true, because of the extra machiner needed, and more labor required on separate at must be supplied by some one. The cream-col-
lecting creamery, merely shifts the cost onto the farmers-it is dist:ibuted instead of being con centrated, but in the long run the farmers or milk producers have to bear the burden, and istribution. While hand separators have been a
great help to dairy farmers, they have biten and are, a somewhat expensive luxury as compared power machines at central points. The capital outlay and maintenance cost of hand separators in Canada, together with it were known. Howver, by a happy system of distributing costs
he amount individually is comparatively small and the people are satisfied-so are the manufac turers. The third and last we shall mention, i do things on a big scale in America,- the million do unds-of-butter-annually
form of creamery i
what we are aiming at. This sounds hig and looks well on paper, but the small creamer
turning out fine goods at minitum cost is a turning out fine goods at minitum cost is al of such crealmeries in of the folly of the $13 i$ Creamery for the majority of Canadian fermer

Caring for the Cream Separator Editor "The Farmer's Advocate - The cream separator is made for one purpos only, and that is skimming. This is done by
centrifugal force. When the milk comes into the centrifugal force. When the milk comes into the thrown to the outside of it, and the cream forced to the center. An opening on the outer edge o the bowl lets the cream out. The one is discharged below the other, and they are caught by
different pans or other receptacles, and thus carried away from the machine. The various kinds of separators on the market are all different, and the devices are purely aids. The old soldered on to keep the milk whirling. In this way there was more or less mixing of the milk and creani, but now devices are used to prevent
Best results cannot be obtained from the use of a separator unless it receives careful atten-
tion. The proper care of the machine is a part of the dairy work that is quite often neglected. In order to do satisfactory work the separator must be set up right, turned at the proper ture, and all the parts of the machine kept in a clean, sanitary condition.
It is very important that the separator be set on a firm, soild foundation. A block of woo


Putting on the Last Spray. solid foundation, but is not so satisfactory as a The milk to be separated should be at a temperaent foundation, and is easier to keep clean than In mow which has a tendency to become greasy. molding the block one should not forget to With this solid foundation there is no chance for jar or vibration of the separator. If the masome mixing of the milk and cream, and the re sult will be poor skimming. Care shourd be acen to see that the bowl of the machine is exturn hard and will not do as thorough work as it otherwise would. Many comprain that their separators turn hard, and it is altogether likely
that the bowl is not exactly ievel. It makes a great difference in the ease of running, and conlevel may be purchased for a few cents or a tem-
norary one can be made by filling a small glass ial nea:ly full with water The separator should be taken apart at freMeaned, for the oil has a tendency to collect machine to turn hardin. Some may hesitate to take apart ali the working parts of the machine
for fear of not being able to put it properly to-
number of revolutions of the crank per minute than
that specified ${ }^{\text {on }}$ the handle of the machine or in the instruction book
will cause a loss of fat in the skim milk. A slow meed may leave as cent. of fat in the skim milk, while
the proper speed
would lose no more would lose no more
than . 05 of on e
cent. cent. Theoreticalthorough the skimming, but there is danger of breaking
the machine when speed is too great. Wich a little prac-
tice one can soon learn the proper
speed and uniformity of motion.
There is a charac teristic hum of the bowl that is not
reard either when heard either when
the speed is too Another point to observe is the
temperature of the
milk tor will thoroughwhatever the claim
of $t$ agent or manuf agent or
There
and
There are no ex-
gether again. This, however, is a simple progether properly. The oil cups should be cleaned out occasionally, and only the best of separator oil used for oiling the machine. It needs oiling every time it is used, and in long runs two or
three times. The ${ }^{\text {and }}$ machine. should be flushed every week with gasoline.
The separator ought to be thoroughly washed weather. It is really more important to wash the machine each time it is used than it is to wash the milk pails or dinner dishes from which
we eat. Dirt is removed from the milk in we eat. Dirt is removed from the milk in sep-
arating and remains in the slime of the bowi hence, if the bowl is filled up with this matter, it cannot do so efficient work, either in skimming or helping to purify the milk. If the machine is not washed twice a day it should by all pail of warm water run through at night Luke-warm water to which has been added some special washing powder or sal soda is best for washing. Then all parts should be rinsed in to place them in a hot oven for a few is well to kill the bacteria. Sunshine is one of naure's best and most reliable purifiers, and all dairy utensils should be treated with this as wuch as possible. rule, are of 85 degrees F., animal heat. It should drawn from the cow, as a poster grade of cream is obtained, and the skim milk is in a better condition for the young stock. When the quantity of milk is very small the cream will not How from the separator, and all the milk will run in one spout. It is a good plan to run a
little warm water through the bowl before turning on the milk. After the milk has been separated a quart or two of skim milk should be run through to obtain what cream would otherwise be left in the bowl. The skim milk shows an average test of more than 05 per cent. fat, the cause should be investigated.
Johnson Co., Ill.
W. H. UNDERWOOD. Another instance of the trouble which ensues here oleomargarine and butter substitutes are allowed to be manufactured and sold was brought President of an oleo manufacturing concern was fined $\$ 10,000$ and sentenced to two years in pritaxes on illicitly-colored oleomargarine. Seven
\$2,500 each. Dairymen, and in fact all Canad- ADNOCATE tans may congratulate themselves that all Chanad- have been used, one on the dormant wood, the
bill which recently passed the House of Cone at Ottawa, prohilitsts the manufacture and sale These articles and thus eliminates the chance crooked work being carried on by those connected
with the business.

HORTICULTURE
Apples Promise a Bumper Crop in Norfolk County.
Prospects for fruit in Norfolk county are very
bright with the exception of peaches and piner Never in the history of fruit growing in plums county has thene been such a show for apples About ten days ago the trees were one mass o bloom and contrary to expectations of the most
sanguine fruit growers almost sanguine fruit growers almost every bloom seems
to ble bringing forth an apple. to be bringing forth an apple. The writer was
recently over the large orchard of son, and in examining tree after tree it was found that the apples were setting very heavily and indications now are that it will be necessary heavy a great deal of thinning. However. heavy June drop may change conditions very apsuch a show for apples as;in the Norfolk orchards such a show for apples as in the Norfolk orchards
Blossom clusters of five seem to be sptting as many apples single blossoms often the case that only one or two out of each cluster produce fruit and the clusters have been so thick that if only one or two apples were, pro
duced in each there would Spraying has been would still be a heavy load. Spraying has been done quite thoroughly in this
district, this year. Last week, putting on the third spray and all indication point to fruit as clean as it is possible throuph
to make it. ' Two sprayings of lime-sulphur
How Crops are

A prospective farmer should give as much
thought and consideration to location his operation
thought and consideration to location and nature ftrm or engage in some other occupation. Some think that when they have made up their some to farm, have "crossed the Rubicon,", have burned their boats and destroyed their bridges that the whole matter is settled and henceforth and forever they will be farmers. But what will be the
nature of their farm operations? nature of their farm operations? That most im-
portant problem of all is given little or no conportant problem of all is given little or no con-
Plderation. A piece of land is purchased near a
church church, not far from a school, on a riral route
and with telephone connections and with telephone connections, then with all these modern advantages the buyer begins to drow corn, grain and grass on a sandy soil or Thermines to have a fruit plantation on clay. misdirected efforts and lack of premeditation. Had the character of the operations been reversed the results would have been different.
Are appreciated and where soil, climate and slope Rldge" in the southern part of Essex county, Ontario, is pronounced. Lying north of Lake Pigeon Bay the land has the full bonefit of as suth's rays, but in addition to this the soil is of very fine gravel formation and heats quickly. Some claim that it contains a large percentage
of iron and is consequently more sensitive. Howof iron and is consequently more sensitive. How-
ever, the fact remains that the soil soon becomes
watm ever, the fact remains that the soil soon becomes
Warm and is not unfavorably affected by rainfall. district conditions combine to make it an early get the most remuneration from an acre of land latre areas are covered with glass and in these
confines confines plants which are to produce the crops are
started at an early date and later transplanted
intb puickly field. They mature their product very early market with quality in his fruit that could
not be produced under entire artificial conditions. On a portion of land where a prominent sonery are once stood, W. W. Hilhurn and his two
previouslyantage of these conditions
pet forth. Their chief exploitations pretiousl, set forth. Their chief exploitations
centre around the growth of early tomatoes, melons and cucumbers. On May 21st, when visit
ed by a rupresentative of this paber, Mr. Hilburn was anishing his tomato planting. The plants at
that tinu. "ere large and stalky. Many of them
were in were in thom while others had already set and
grown stmall tomatoes of quite an appreciable
size The
house
"ery
rays into or thats and. They are first sown in small trays or llats and the area of the flat is divided
into ten rows and about thirty-five seeds are
fallen the present spray after the blossoms have The winter was a very severe one and th peach trees have been very hard hit. We saw
one orchard sints a very which has been cut back and it presints a very rakish appearance at the present
time, although the owner believes that by fall it will be almost as good as before by fall injury. Very few trees have bean killed outright hat many seem to be so injured that we doulut whether they will ever completely recover. Two and three-year-old young trees are in some cases frozen back almost to the trunk and $:$ :lly a few
leaves were showing on these at the time of our visit last week. The frost cut some curious capiers in some of the orchards we were in. In one young orchard, a small block of young Baldthem being almost dead. This was the of apple injury we noticed. This was the only fillers with these Baldwins were frozen planted a badly while just a short distance north and very the peach trees weris not injured nearly so badly and were coming along fairly well. In anothe while those nearest to noticed practically killed the best in the orchard. Cherries promise
have we seen trees more uniformly loaded Never, some of the orchards of sour varieties are. Pears are also making a good showing, but plums as there is not so many of a light crop. However, county. Some of the growers believe gre in the they fall-ploughed their land the injury to had from crop would not have been so great and rom now on these growers are going to test out Stractice of fall-ploughing
Strawberries promise well and the jam and
ween six and seven cents per, quart basket. The crop will likely be a heavy one and the price, Power sprayers, will pay the growers fairly' well. hand pump. In most cases where orcharding is being done on a large scale this orcharding is matter of spraying greatly and some of the largest growers have two or three of these outfits. In the Johnson orchard at the time of our visit the third spray was being applied at the power outfits are used gallons per day. Three filling tank being filled all the time and two applying. This orchard of about 1,200 trees is sprayed in this manner in about four days and an extra heavy spraying is given, the trees being tree. to the extent of about ten gallons per

While planting has not been carried on so ex tensively in the county as was the case a fow out with fruit good many acres are still being set that section each ypar. Very little is heard in though some believe that the careless grower who does not pay strict attention to his fruit will It is succeed in bringing his trees into bearing. planted will not develop into profitable acrearge due to the carelessness of the grower or to a ing, but there does the principles of fruit growbut success ahead of those growers who have who and are planting the right varieties and narketingerstand fuliy the growing of fruit sand county have been transformed parts of Norfolk few years from almost a barren, sand waste to a productive fruit growing section, thrifty w, ung ripes and good crops of potatoes and strawberries taking the place of pine stumps and tufts
of blue grass or horsetail.

Forced in South Western Ontario.
placed in each row. After germination takes Spark's Earliana and the main part of the crope place and the plants are up they are trans- have been of this variety. However, the foliage has
planted, placing about thirty-five plants in the been rather light and in order to improve on this
same container. In the next transplanting the same container. In the next transplanting thys number is reduced to fifteen and in the last or third it is reduced to eight. They have gone one step farther this vear and made an extra trans-
planting into individual boxes from which the


Head lettuce under irrigation system.
botl the drops down allowing the single plant with all the earth and roots intact to drop out into tails considerable lefor but the heneficial ensults are quite noticeable. The roots are uninjured and retain their foothold on the original soil and are able to branch out at once and get additional footing in the field.

[1]'on May 21.
rowing tomato, Mr. procure a little smoother tions last year and preserved the seed as fias boen previously described in columns of this paper. The plants for this selected seed have given satisfaction this spring both to Mr. Hilburn
and to the neighbors who have purchased the seed. In addition the original strain and some Field's Early June are being grown this yea The plants are set in the field at distances of plants to fy five feet, this requinas about 2,150 planting is done with spades which farm th more favorable reception to the plant than where furrows are ploughed and the soil is allowed to dry. After covering is done the plants receive former former years has been combined in the proporsulphate of potash, one-half bag of muriate potash and two bags of bone meal. An ordinary size handful is placed in a circle around the plant lar enough away so it will not come in contact land is treated with ashes or with dried or pul verized manure obtained from United States stock-yards.
ontinues ation, of course, at once commences and continues as long as the plants are not injured by preparation the young plants go steadily forw and and about the 20 th of June the first pickings are made. These are shipped to local as well as western markets and start off at a price ranging from $\$ 1.75$ to $\$ 2.50$ per eleven-quart basket Ontario-grown tomatoes are considered superior
to those coming from the South and the product of this particular district is very much appreciated on the markets. The revenue from an acre of this crop varies each year, but over
$\$ 6,000$, has been recovered from a ten-acre field $\$ 6,000$, has been recovered from a ten-acre field on a favorable year. This is the gross income
but after the growing expenses are deducted still remains a handsome reture deducted there THE possibilitities on three acres. On another plantation almost directly south of directly on the lake J Atkin and ardering ing on similar operations with a little diversity
and a little intensity added thereto. Early tomdistrict are being produced, but Mr . to that to Neptune, God fof the Sea, and pumps the water e thirsty fields.
distance of his house and bordering directly
the lake has been decorated with rods and pipes and leading to the lake is a two-inch galvanized
pipe which carries up the water. On the lakeshore a $3_{\frac{1}{2}}$ h.p. engine is installed and when set in motion, 40 gallons of water per minute are
pumped out of the lake, lifted a distance of 80 pumped out of the lake, lifted a distance of 80 of soil and crops. The result is that two successive crops can be grown in one soason, any one
of which will pay for the irrigation system and of which will pay for the irrigation system and
growing expenses. This system cost about $£ 150$ per acre. The pump is worth $\$ 75$, the engine per acre. The pump is worth $\$ 75$, the ergine
$\$ 215$, and 300 feet of leader pipe make an 9 dditional expense of $\$ 42$. This makes the complete

- cost per acre in the vicinity of $\$ 260.50$. This - oost per acre in the vicinity of $\$ 260.50$. This
field is watered about twice a week, and if the fiel is watered about twice a week, and if the at a tine the soil is thoroughly moistened. This means that each week 19,200 'gallons of water are echanicaily added to the soil.
This three-acre plot is divided into different cabbage, onions and melons will all be grown. They are first started in the greenhouse and later
transplanted into the open. field. These three systransplanted into the open. field. These three sys-
tems; namely, the greenhouse, the soil itself and the system of irrigation working in conjunction make it possible to grow two successive and renunerative crops in the same year
In order to get an idea of the revenue from sider the one acre and a half of cabbage plants now growing luxuriantly under this system of cultivation. The varieties of cabbage grown are
Express, Jersey Wakefield and Copenhagen, and express, Jersey Wakefield and Copenhagen, and 20th. They are set at sufficient distances that one acre will nourish and maintain about 10,000 plants. These will be ready to cut, if nothing intervenes, about the 10th of June and at that
time the market is in a very réceptive mood for such articles from the garden. They are sold in quantities of a bushel each and twenty head of cabbage is the average number per bushel. In
former years the market allowed $\$ 1.50$ per bushe at the outset but this goes down to 75 or 80 cents, depending upon the supply from the South. However, Mr. Atkin has madg different provisions for marketing this year and will endeavor to
keep the local markets more uniformly supplied keep the local markets mo
After the cabbages have been harypsted and the ground reprepared, potatoos will be planted and given much the same attention that the earlmoisture which it is possible to give them most any quantity can be grown per acre. Mr. Atkin expects about 300 bushels per acre with only moderate attention. The other vegetables which wise with potatoes and in former years the 13th of July has seen the field replanted with the second crop.
These few
These few crops and systems exemplify the
wisdom of locating wisdom of locating oneself in the atmosphere of
agreeable labors. Live stock appeals to some, but in this district only a few stray head of cattle may be seen and some even, buy their motto and intensive culture the by-word of these vegetable and small-fruit growers. They have
decided what lines of auriculture will please then decided what lines of agriculture will please them most and they are devoting
and mentally to the work.

Don't Take Chances.
Fruit growers take many chances, sometimes
they win out, and sometimes they lose out, and often when no cover crop is allowed to grow up
in the peach orchard the trees die out. This was brought home very forceably during the cold
winter of 1911-1912. Rape, buckivheat, vetcnes clover and in many cases weeds proved a
preserver to the young orchard. One case part preserver to the young orchard. One case parti-
cularly in Western Ontario showed the cover (rop a wise practice. One-half of the orchard was
well protected with a crop of rape, the other was bare. The half with the cover crop is still stand
ing while the neighboring trees were long since ing while the neighboring trees were long since
pulled up and burned. They succumbed to the cold weather of that winter.
Just recenfly the writer heard a irnit of the Leamington District echaim. Whom. wowl
were an eye sore, but I ,elian thes sul trees." One part of the orcharl was quit, . through last winter's cold snaps unimpared whi a nearby, late-cultivated orchard sumpurn consi,
prably. Weeds are not a goosl thome to mend as a crop, but to get down tor ral. bottom practicability they serve a purp....
are not to be despised if the grower fimbs
know are safe-guards in time of peril, in the rope that all will be well. A cover crop sown during that all, will be well. A cover crop sown
the frist half of July, 1914, may prove profitable
when the snow melts away next spring.

## Trying Things Out

Now that the spraying season is about over, them to the point where they forget what mix-
tures they have used and under what conditions tures they have used and under what conditions
they have used them. Knowledge gained through experience has a double value, and the
era. has not vet arrived when all horticulturists era. has not yet arrived when all horticulturists agree upon the most efficient and economical
spray. Day after day we hear of Bordeaux or lime-sulphur injury, yet these two fungicides have revolutionized fruit growing, and will never
be forgotten for the services rendered. However, be forgotten for the services rendered. However,
what is now sought is a material that has insecticidal and fungicidal properties combined, or in other words, carries death to insects and
scab. The governments, through their employed scab. The governments, through their employed experimenters and scientists are constantly
working in the interests of the producer, but the vaiue of their findings will be much enhanced by
the co-operation of the grower himself. It has not the co-operation of the grower himself. It has not
been long since the man on the land fought, tooth been long since the man on the land fought, tooth
and nail, all new suggestions and preferred to cling to the customs of his fathers, but there has been an awakening and changes do not come so
slowly now.


Starting for the field with tomato plants on the Hilburn Farm
One thing being tried is the fungicidal value long been used in conjunction with Bordeaux and ime-sulphur, but if it has the power to curtail fungous diseases as well as to destroy insect life tion of the commonly-used fungicides. The eff ciency of Bordeaux mixture was first discovered in an attempt to frighten he fungid boys from an enticing vineyard, and prehended also in an of lime-sulpkur was apno unwritten law that good things must come hy ccicient, let us hope that the season's exper ments may prove productive and establish a ma-

## POULTRY

His Excellency, Mynheer Greub, Netherlands Minister of Agriculture, has fiven, through
Golward Brown, F. L. S., President of the InterElward Rrown, F. L. S., President of the Inter-
national Association of Poultry Instructors and national Association of poutry Instructors and
Investigators, on hehalf of his Government, a
cordial invitation for holding the First World's Poultry Congress at The Mague in 1916 ., This invitation has been unanimously accepted by the
Council of that Association, at whose preliminary mectings, held in london nearly two years
ame, a resolution was passed that such Congress should be held every three years. It was originally intended that the first should meet in 1915 , was posiponed unt il the following year. No more suitable country conld have been chosen for a
yalhering of this nature than Holland, where of
late years ereat dewalopments have taken place ine special fentures not met with elsewhere. The Fomme there for holding international gatherings In the commen aricial notification and in-$-5-5=$ $3+2$


Early Molt and Winter Laying. Most poultry raisers now appreciate the advantage of winter-laying hens and in order to procure this kind of fowl they are having thei chicks hatched in April or early Amarican Poultry World \&dvises, having the hens molt early in order that they get in laying condition for the
winter. In order to make the hens molt early wintior. In order to make the hens moly taying again correspondingly early it is advised that their feed be reduced to one-third its usual quantity for four days about the middle of August to dry up the tips of thy quills and
the quill cells and to cause the feathers to the quill cells and to cause the feathers to drop
out in large numbers long before they would start with the usual feeding. During these four days, the hens should have water and green stuff rather sparingly, but should not be deprived of them asual amount of grain and dry mash or wet crumbly mash if that has been the custom though the dry mash is generally considered best. To force the molt after the period of semi-
starvation keep before the hens until they start to lay, a dry mash composed of the following two parts wheat bran, one part each wheat middlings, corn meal, gluten meal, beef scraps and
linseed meal. The linseed meal opens the quill linseed meal. The linseed meal opens the quill cells acain. starts the oil and causes the new
coat of feathers to grow rapidly. When the molt is completed the molt seed meal should be weather arrives when it may be safely fed. However, if there is any tendency to-
wards looseness the quantity should be
These are a few of the customs indulged
in by fanciers. who make money out of winter eggs, but
there is no reason why the ordinary farm should not be treated in the same way and forced to
produce eggs during
the winter months when they are needed at home

## FARM BULLETIN.

An Important Experiment.
The Secretary of 'the Ontario Corn Growers' Association, W. E. J. Edwards, is co-operating with the District Representatives of the Counties of Simcoe, Peel, Welland, Durham, Hastings, $\mathrm{Ox}_{7}$. varieties of corn best adapted to those districts The Association has supplied the seed which covers eight varieties, namely, White Cap Yellow Dent, Bailey, Wisconsin No. 7, Golden Glow,
Leaming, Longfellow, Compton's Early, Salzer's North Dakota. In these eight counties there are in all firty-two experimenters. Each man retains
one acre of land for this experiment, and it is one acre of land for this experiment, and it i8
subdivided into eight equal parts. These dift ferent varieties are planted side by side under the
same conditions on this one acre of land, and same conditions on this one acre of land, and
they will receive the same cultivation and the same treatment throughout, which has been pret scribed by the Association and the Seed 13ranch These fifty-two acres of land, devoted to one particular aim, should furnish valuable informat tion to the corn growers of those different coun-
ties. It is the field tests and findings that ultimately establish or discountenance different vait the possibilities existing in the growth of corn for seed or for silo the farmers of those differ ent counties should watch with pare now being

the winter months when they are needed at ho
and bring a good price on the local markets. The weather has been very variable this sprime. In eastern and northern Ontario and Tery dry. Tn fact, if rain does not come soon the hay crop) will be light in these districts. White dry weather has prevailed in the sections
namm, it has bern an unusually wet spring in
combly namud, it has been an unusually wet spring in
sompliwestern Ontario, and seeding was held back

THE FARMER'S ADVOCATE.

Gordon S. Gooderham's Sale. The Manor Farm dispersion sale of Holsteins Park, on Tuesday, May 26 th , was favered ideal weather, which, together with the record
attractive quality of the cattle offered together a representative gathering of Holsteit breeders from many parts of the Dominion with a sprinkling from the country to the south. previous sales of the year the majority present were there to purchase some of the rich blood of the offering, and while a few purchasers were forgain prices, yet the total and average all through must be considered satisfactory. All
told there were 52 head sold, including 12 calves making an average of $\$ 244.71$, or a grand total
of $\$ 12,725.00$. Forty females from yearlings made an average of $\$ 295.12$, the highest price being $\$ 1,040.00$ for the yearling heifer Nicolo est sire. Pontiac Korndyke. She wreed's great est sire. Pontiac Korndyke. She went to the
bid of W. L. Elliott, of Unionville, as did the
12-year-old, Lady Vincent for $\$ 725$, 12 -year-old, Lady Vincent for $\$ 725.00$, the five
year-uld Lady Summerville De Kol went to H . F. Lee, of Sonseron, P. E. County, for an even
\$1.000. Other three-year-old heifers made average of $\$ 272.00$, and two-year-olds $\$ 361.50$. Ten bull calves made an average of $\$ 77.50$, the
extensive purchasers, as was also H. H. B. Tracy, of Coboarg. ©thasers, as was also H. B. Tracy, of
Holthy. Holtby, of Manchester, W. G. Hill, Queensville ducted sale the Aurora. It was a well-conwas well looked after, for which in attendance due to the generosity of Mr. Gooderham and the Raecutive ability of his sales manager, Mr. J. J. Queen De Kol Posch, \$235. Cubana De K Princess 2nd, $\$ 260$; Princess Pontiac De K. K K De Kol Calamity, $\$ 260$ : Mercedes $\$ 335$; Countes, ertje, $\$ 175$; Jossie Pauline Posch, $\$ 250$; Moun Lady Summerville De Kol, $\$ 1,000$; Artaliss $\$ 425$ \$185; Pauline Emery De Kol, $\$ 200$; Hulda Wayn \$400; Purity $\$ 170$; Hulda Wayne of Manor \$290; Manor's Herger \$370; Coral De Kol 3rd Kerndyke $\$ 19$; Bedford's Gem 2nd, $\$ 300$; Emma Kol, \$155; Re Kol, \$370; Thelma Johanna De of Manor, $\$ 185$; Thelma De Koi, $\$ 190$, May Johanna
Diamond, $\$ 330$; Bonalavo Lyons. Flamboro's Mayflower, \$195 arch De Koi, \$185; Pontiac Johanna Nig, $\$ 210$
Lady Sunrise rise, $\$ 160$; Queanie L. $\$ 200$; Lady Primrose Sun-
$\$ 135$;

S195; Mercenia of Campbelltown, \$260; Foekje Pauline, $\$ 245$; 4 th, $\$ 235$; Calamity Houwtje Nicolo Pauline Friend, $\$ 300$ : Bull Call, $\$ 105$; Pontiac Wayne of Manor, $\$ 150$; Sir Oll, $\$ 105$ :
Echo, $\$ 140$; Bull Calf, $\$ 125$.

## Graduates in Agriculture

 agriculture from the ontario Agricultural College in 1914 as the Ontario Agricultural ColToronto with which the college is affiliated The college one of the largest in the history of the be written off as supplements arter a name must Barnet N. Allan, J. F. Anderson, (English); I. T. Brady, (English botany); J. E. Britton, J. W. Cleeves, L. M. Carroll, H. Castro-Zinny, A. G. iology); F. Forsyth, (bacteriology); Ha, S. Fry,N. S. Golding, C. A. Good, H. R. Hare, W. B. Hayes, (English); S. H. Hopkins, w. T. Hunter, R. Kirk, J.S. Knapp, C.M. Laidraw, E. Lattimer,
H.D. Leppan, G.O. Medden, A.E. McLaurin, J. .E H.D. Leppan, G.O. Medden, A.... McLaurin, J.E. , W. G. Nixon (English); R. L. Ramsay, G. J. Spencer, C. W. Stanley, N. Stans-
field, J. W. Stark, P. Stewart, W. F. Strong, R.

## Agricultural Legislation in Nova Scotia, 1914

The year 1914 has been fruitful of conside
able legislation passed in the interests able legislation passed in the interests of the
Nova Scotia farmer. The following specific Acts are worthy of special note and will be briefly considered in this article:

1. An Act to Fncoura
Farmers' Ant to Encourage the Incorporation of ing. An Act for the Encouragement of Dairy 3. An Act to provide for the Organization of
Women's Institutes. Act." An Act to Amend "The Tile Drainage 5. An Act to Amend "The Act for the En-
couragement of Agriculture vincial Grants to Agriculture in respect to Proto The In Act to Amend "The Acts in Relation 7. An Act to Amend "An Act to Prevent the Introduction and Spread of Insects, Plant Dis-
eases, etc." 8. An Act to Amend "An Act to Facilitate and Warehouse Associations." Association Act to Incorporate the Good Roads Association of Kings County. Act 1913."
The following Acts were defeated:
2. An Act respecting
3. An Act respecting ""The Protection of
4. An Act amending the "Act in Regard to

Fences." Farmers' Co-operative Societies.-The unquali-
fied success of the Farmers'. Fruit, Produce and
Warehouse Associations, have now, been organized in the fruit-shipping counties of Nova Scotia, has aroused the farm-
ers in other parts of the Province to the need of co-operation along their special lines. The Act of 1914 provides for the incorporation of farmAct, for the purpose of purchasing for the mem-
bers manures, artificial fertilizers, stunfs, spraying materials and outfits, and farm-
ing implements ing implements of all kinds; and also for secur-
ing the best market for the sale of the products of the farm. No person is eligible for membership unless he resides in a farming for member-
is actually engaged in the occupation of farming. is actually engaged in the occupation of farming.
Provision is made for an inspector who shall take measures for organizing and assisting such societies. No incorporation or annual registra-
tion fees are required for incorporation under
this of The Fncouragement of Dairying.-The object of this Act is to foster the establishment of
creameries and cheese factories, at the same time providing for a rigid inspection of such factories ance of sanitary conditions in these Institutions.
The Bill provides that any three or more person The Bill provides that any three or more persons
who desire to associate themselves for the pur-
pose of manufacturing butter and cheese may do so under the Nova Scotia Companies Act.
No company so incorporated shall erect huildNo company so incorporated shall erect build-
ings for the above purpose until the site, plans,
etc., have been etc. have been approved by the Superintendent
of Dairving. The Bill includes a provision for
the expenditure of a sum not exceeding $\$ 15,000$ in any one year by the Government to purchase
a site for and to build a demontration cream-
ery cheese factory at such places as may he
recon chen
this Act, Women's Institutes may be organized in any county or part of, a county by a number of
women, not less than ten. The Goverior Council may appoint a Superintendent of Wo ing this work a For the purpose of encourag ing this work a sum not exceeding $\$ 5,000$ per
year may be expended. The organization of Wo men's Institutes in Nova Scotia, under the provisions of this Act, is rapidly proceeding.
Tile Drainage Act.-In 1910 the Nova Government passed the Tile Drainage Act, making provisions for farmers, who purposed draining their lands, to borrow, money for that purpose from the municipality. Under the Act,
however, the municipalities could not issue debemtures for this purpose in sums of less than $\$ 1$, farmer or even several farmers would that no one armer or even several farmers would make ap-
plication for as large an amount as this, the Act has become inoperative. The amendment of 1914 states that "The Council of every muni-
cipality may pass by-laws from time to time for cipality may pass by-laws from time to time for
borrowing for the purposes kereinafter mentioned (Farm Drainage) in sums of not less than $\$ 100$, for issuing the may be considered expedient, and cipality, etc.'
Grants to Agricultural Societies.-The Nove Scotia Government gives grants to each of the purpose of live'stock improvement. The amount Noted for the purpose is $\$ 15,000$. In 1913 the Government granted $\$ 1.00$ for each $\$ 1.00$ sub-
scribed by the Societies, but in 1914 the Society scribed by the Societies, but in 1914 the Society grant, and hence the clause in regard to the subscription has been amended as follows: There shall be paid to each Society $\$ 1.00$ for amount not exceeding $\$ 40.00$. The remaining part shall be distributed ratably among such
such Societies whose subscriptions are more than such Societies whose subscriptions are more than
$\$ 40.00$, but no Society shall receive a larger grant in any one year than $\$ 250.00$." No com-
ment is required to indicate that the legislation ment is required to indicate that eaker societies. The Inspection and Enrolment of Stallions.stallions shall be inspected is amended by adding the following words and any such malforma-
tion as the secretary for Acriculture upon inspection and report hy an inspector deems to render, a stahlion unsuitable tor hreeding pur-
poses."
The reason for this will be very apparent to any horseman who knows that some
malformations of joints may involve a much more serious objection to a horse than even the presence of a spavin. The cost of veteri
spection is reduced from $\$ 5.00$ to $\$ 2.50$.

## -The oricinal Act of 1911 only made provision

 for the passing of regulations in regard to such ment makes provision for thee passing The amendtions in regard to any insect pest or disease de-structive to vegetation. The farmers in general and the fruit growers in particular, of Nova
Scotia are determined to reduce to a minimum the ravares of insects and phant diseases, and,
under the provisions of this Act, nearly all the ravares of insects and plant diseases, and,
under the provisions of this Act, nearly all
classes of veretation shipped into the Province
have to pass rigid inspection before being ad-
sociations.-The success ackieved by these as-
sociations since the passing of the original Act
in 1908 has led the in 1908 has led the passing of the original Act creased powers from year to year. The present time to time to make by-laws, rules and regulations in regard to various matters pertaining to
the interests of these companies, the interests of these companies.
Good Roads Association. The Kings County Good Roads Association.-The Kings County
Good Roads Association is a body in-
 for the purpose of the improvement of roads in that county. The Association has and expects to money from private people amounts, and for receive considerably larger visable that the Association be incorporated It is only a few months since the organization,
but during this time the Association has beem instrumental in timetting forty or more has belit log drags in opearation on the roads, more and alitoo ing
arousing a tremendous enthusiasm for good Rural Telephone A ment passed what is now known as the Rural Telephone Act, making provision for the erection
of telephone lines, more especially in the ing parts of the Province. One of the provisions of the Act was that the Government should give The amendment of 1914 provides that purpose.
the 0 or panies organized under this Act shall annually set aside as a reserve fund 10 per cent. of the rant paid by the Government, which amount
shall be available for repairs and improvement of the telephone line. Most of the posts used in these telephone lines are spruce, and ten Years is about the limit of their usefulness. ompanies have been organized. Sheep Proof Fences.-PPursuant to a resolution effect that, when demanded, a legal ison to the should be a sheep prool fence, an Act, embodying
this principle was introduced. It pasped the this principle was introduced. It passed the Legislative Assembly, but was defeated in the
Legislative Council. Many farmers hold that porty-constructed fences are more responsible dog nuisance. This Act, had it shesp than the have partly remedied this condition, but now in favor of the principle should 'so acitate the matter as to secure unanimous support for the -This Act Representing the Protection of Cattle. hoist, provided that the owner of any bull who
allows such a bull to run at large shall be liable to a penalty of $\$ 25.00$. It further provided service of a bull that is not peptennant from the
as provided in the as provided in the next preceding section, the
owner of such cdw shall be entitled
dam damages f:om the owner of entitled to recover
is proved that said cow was suss it
sit, at the time of such service, under such control as is provided in It was felt by those who promoted this Act the "scrub bull" nuisance, and it is hoped that interested farmers will do. their best to secure
support for some such measure in the interests

What Some Farmers Owe the Past. Reftio "The TFarmer's Advocate"
"A Good deal of money will be made" on the trait farnis of Ontario this year, as in every year, that never would have been possible but for certain remarkable happenings no one knows how long ago. By this way of looking at it
hene peach and grape crops of 1914 date back at the peach and grape crops of of 1914 date
least some fity
fir sor sixty trousand years. east some firty or siixty thousind years.
The Niagare fruit district, from which comes the bulk of Canada's fancy fruits, is a com-
paratively small area to produce somuch good paratively small area to produce so much good
wealth, foer it is only a narrow strip of land treath, for itong the front of Lake Ontario be-
treen the Niagara River and Hamilton, and be
ter otretching along era River and Hamilton, and be-
trwen the Niagera
tween the shore of the lake and the foot of the tween the shore of the lake and the fot it it seven
At lagara escarpment.
Auenston Niagara escarpment. At Aurther west it nanrow to one mo two miles. It is as. gently-sloping terrace,
or and upor' it are the farms and vineyards of the
Niagara and Grimsby districts, as well as the Niagara and Grimshy districts. as weal an tows.
city of Hanitoon and a hall--dozen smaller towns
The escarpment which forms its background-or porhaps its backbone-was most conveniently and
portunately placed, from the fruit-grower's point of view. The strange thing about it is that it is the old shore clifif of a post-glacial lake which Was drained off some seventeen thousand year Buccessor.

But.even that does not look far enough back
A glacial lake preceded it. Not one alone, but
 What is now central Ontario and northern Nen
York, reaching also as, fai a as Wisconsin an owa. That was fuliy five the geologists. Then collowed a glacial lake, fed by the melting ice, in
the basin of what is now Lake Otatrio. the basin of what is now. Lake Ontario.
reached to fully three hundred feet above the present level, and at some point down the st Lawrence was impounded by a gigantic ice dan In time these sheets or gone a new and smaller lake was formed, partly by the overflow from the three Upper Lakes, which were then probabhy united in one. To this post-glacial to it, has been, given, for conveniec It was at frrst lower
name of Lake Iroquois. It than the lake of oo-day, and the melting of the ice dam, by providing a new outleet into the s.
Lawrence, rapidly brought its level still further Lawrence, rapidye head of the lake it rose again during later ages till it reached a point one hundred and fifty feet miles wider. "Lake Iroquois"' and some
lasted for perhaps seventeen thousand years, and then its water drained off to the level of the modern Lake Ontario. From that date unctit ois present has been probably an equal enith
time-ages to us, but geologically speaking only a few moments. The shore clififs and beaches of unis ancient Lake Iroquois have er inday a arked fortany-
economicaily. one to see, and they furnish their own proors On the New York side of the lake numerous hill of morainic origin-that is, made by
posits-rise to heights of from sixty to two hun posests and firty feet, showing gravel bars an
dred strata of beach sand and clay. The clearest ev

THE FARMER'S ADVOCATE.

Canadian side, along the two V -shaped arms at
 watd to Hamilton, and from Hamiltoon northeas to Toronto, an equal distance . .oast of the lake to Trenton, the beach may be traced with paratively few interruptions. This all means that what we now sometimes
call the "Garden of Canada" is the beach of the old Lake Iroquois turned to farms. There is perhaps no richer bit of farming country in a
America.
The shore clifi of the ancient lake America. The shore chilh at its greatest heigh reaches to three hundred feet, shelters it on one side, and on the other it is tempered by the lake thus protected, forty thousand aces produce near y every kind of domestic fruit which It is possible to grow outside of the tropics. The claye and sandy loams of the old beach afrord the
of soils for the peach, pear, plum and grape, and of soils for the peach, pir, a gentle slope to the lake, This fifty-mile garden is of nature's own making, and for many years a lucrative and growng ind we who eat of their
district choice fruitage, owe a great debt to the longago, but it is a dize

Very Dry in Ontario County
Editor "'The Farmer's Advocate"'s district and our county and in fact all tris dry spring, and most everything is needing rain, badly, and while it has at time of writing (uay 22race every app pearance or or some time. We could well do with some of the extra rain given to the Western and Southern counties . is too early to predict the shorin crop it has a fairly good appearance, grail wheat looks well. A larger acreage than
fall
usnal usnal is devoted co corn, fur of this great crop realizing the about equal the demand, there is Farr litle construction work being done thi
very year, and the men are not quite so independent
We fully realize "the laborer is worthy of his Wire,", but we do not wish to see the day when the farm hands have the greatest advantage. We expect to see a fair crop of apples, if nothing un foreseen occurs to injure. Not so many young
apple trees are being planted as in former years One of the young farmers of the communit has installed a milking machine for his herd Hoisteins, and the machine sems to give fal
satisfaction, although a slight shrinkage wa satisfaction, although a slight sher machine is
noticed in the yield of milk. The two-unit one, capable of milking two cows a once, that is, each unit miks one cow
chine is driven by a $1 \$$ H. P. gasoline engine and three cents per day will easily pay for gasoline in milking 14 cows. One man will milk about 12 cows per hour. The cows are an does not need it. The writer saw this machine milk a cow in 3 minutes, getting 20 pounds About twenty-five minutes per day is required to wash machine. It is scalded in the morning,
to preserve rubber and keep sweet; at night the machine is rinsed as soon as possible after milking, then placed in clean water until morning. work of one man; anyone considering purchasing a machine can considela the investment of $\$ 150$ or $\$ 160$ as well as depreciation, fuel, etc., against one man's time while milking. Also cheaper help may be had where hand milining is not done, and the farmer should cansider heep the
or his sons. This might be a way to keep boys on the farm.

## Old Ontario Looks Fine.

Editor "The Farmer's Advocate":
While we heard a good deal of complaint esWhile we heard a goan a ittle earlier in the season, of too much rain in Western Ontario which held back seeding operations considerably it is sedom at this sea son of the year that an all-round crop. As seen cn much better for
a recent trip through the eastern part of Middlesex county and down through south oxior an into Norfolk crops of all kinds seem io be doing
well. Some sections had suffered from the rain well. Some sections had suffered done grain on this land is looking well. A good deal of fall wheat has been badly winter-killed and the crop is not going to be a heavy one, although some extra good believe being on summer-fallowed land which we believe being on summer-farny bard manure. The hay crop at present does not seem to in-
dicate a big yield. The severity of the winter dicate a big yield. The severity of the winter and the lateness of the spring havemis fair yields it back and not be many extra heavy crops of hay unless the season is very favorable from now on.
More corn is being planted this spring than ever More corn is being planted this spring than ever before and it is going in in worked and the warm weather and showers making ideal conditions. We weather and showers making on May 29th. Down in the lighter land in Norfolk Connty a large acreage of potatoes is being post week and potatoes were up at the end of
some of them had been cultivated. Some of the growers are making a specialty of growing potatoes for seed.
Spring grain while in some cases late sown is making a yery rapid growth, frequent showers, and warm weather rushing it along at a great rate. If it keeps this up for a few weeks the straw is likely to be soft but "i course, with much rain, and growth will be checked slightly. Oats, particularly, are showing a very good, color and prospects are, at the present time, for a very good crop even though they went into the ground rather late. A large acreage of barley ind has
grown in this district but where the land has been well prepared and the soil is fertile the crop is looking fine. Pasture as a general thing is have wint well and taken altogether conditions in the section of country' traversed never were much more promising than at the present (ime. As one traveller was heard to remark
"Old Ontario is looking good enough for anyone EARMER JOHN.

Toronto, Montreal, Buffalo, and Other Leading Markets.


THE FARMER'S ADVOCATE
 bag, track, Toronto.
Honey.-Extracted, 9c. per Ib. per dozen, $\$ 2.50$ to $\$ 3$.
hIDES AND SKINS

 hair, 37 c , to 39c., horse hides, No. No.
$\$ 2.50$ to $\$ 4.50$; tallow, No. 1, per no
$\$ 2.50$ to $\$ 4.50$; tallow, No. 1, per
54 c . to 7 c .
TORONTO FRUIT MARKET. where, and the thords everycontain should be heeded par-
ticularly by bank depositors Since 1832 we have provided the public with a save place for their money. Our Reserre Fund
of $\$ 11,000,000$ is now $183 \%$ of of $\$ 11,000,000$ is now $183 \%$ of
our Paid-up Capital and we constantly maintain a allequate hold-
ings of Cash Assets. We invite
loge accounts, large wadsmall.
The Bank of Nova Scotia


BRANCHES OR THIS BATE
in every Canadian Provinae, and
in Newfoundiland, West Indios,
Boston, Chicago and Now York

|  |  |
| :---: | :---: |
| $\$ 125$ to $\$ 200$; serviceably sound, $\$ 35$ to $\$ 90$ breadstuffs. | ranged down to $5 \frac{1}{2} \mathrm{c}$., per lb . Cows and bulls ranged generally from $5 \mathbf{t c}$. :o -itc. |
|  |  |
| tobe, $\$ 1.03$ to $\$ 1.04$, loutside, Mani bay points; No. 2 northern, 98 c.; mor at Goderich |  |
|  |  |
|  |  |
| Oats. - Ontario, new, white, No. 2, 39 c . to 40 c ., outside; $41 \frac{1}{2} \mathrm{c}$. to $42 \frac{1}{2} \mathrm{c}$. track, Toronto; Manatoba, No. 2, $42 \frac{1}{3} \mathrm{c}$. |  |
|  |  |
|  |  |
| No. 3, 41c., lake ports. <br> Rye.-Outside, 63c. to 64c. <br> Peas.-No. 2, $\$ 1$ to $\$ 1.10$, outside. <br> Buckwheat.-No. 2, 83c. to 85c., outside. |  |
|  |  |
|  |  |
|  |  |
|  |  |
| - |  |
| Barley. - For malting, 55c. to side. |  |
|  |  |
|  |  |
| board. Manitoba flour - Prices at Toronto are: First patents, $\$ 5.60$; second patents, $\$ 5.10$; in cotton, 10c. more; |  |
|  |  |
|  |  |
| strong bakers', $\$ 4.90$, in jute. hay and millfeed. | Dressed Hogs.-Demand was way round and prices |
|  |  |
| $\$ 14$ to $\$ 14.50 ;$ No. $2, \$ 13$ to $\$ 13.50$. Straw.-Baled, in car lots, $\$ 8.50$ to |  |
|  |  |
|  |  |
|  |  |
| Toronto; shorts, $\$ 26 ;$ Ontario bran, $\$ 24$, |  |
|  |  |
| The following are the prices wholesaleseed merchants are quoting to the trade; |  |
|  |  |
| Red clover, No. 1, \$19 to \$21 per cwt.; |  |
| red clover, No. 2, $\$ 17.50$ to $\$ 18.50$ per cwt.; alsike, No. 1, $\$ 21$ per cwt.; alsike, |  |
|  |  |
|  |  |
| $\$ 8.50$ to $\$ 9.50$ per cwt.; timothy, No. 2 , $\$ 7.25$ to $\$ 7.50$ per cwt.; alfalfa, No. |  |
|  |  |
| 1 , $\$ 14$ to $\$ 15$ per cwt.; alfalfa, No. 2 , |  |
| UNTRY PRODUC |  |
| Butter. - Receipts were liberal and prices eagy. Creamery pound rolls, 24 c . to 26 c .; creamery solids, 23 c c. to 24 c .;separator dairy, 24 c .; store lots, 20c. to |  |
|  |  |
|  |  |
|  |  |
|  | ity and dorna |
| Eggs.-New-laid, firmer, at 23 c . to 24 c . Cheese-Old, twins, $15 \frac{1}{2} \mathrm{c} . ;$ large, 16 c . |  |
|  |  |
| new, twins, $14 \frac{1}{2}$ c.; large, 14 c . Beans.-Imported, hand-picked, $\$ 2.40$; |  |
|  |  |
| Canadians, hand-picked, $\$ 2.40$; primes, \$2.25 per bushel. <br> Poultry. - Receipts principally cold- |  |
|  |  |
|  |  |
| storage, which were quoted as follows :Turkevs, 21 c. to 25c.i geese, 14c. to |  |
|  |  |
| 15\%. ducks, 14c. to 20c.; chickens, 17 c | $22: \%$ and pasteurized at 23 c., with fine |
| to 23 c .; hens, 14 c . to 17 c . Spring chickens, of which there are a few be |  |
|  |  |
| ckens, of which there are a lew be |  |


of B
hig
ad
per ada oats, were quoted Iat 2 Western Can-
per bis.
23 bushel to per bushel, ex store, in car lots: No
23, at 42 ctc to 43 c .; and No. 2, feed,
at 41 , Flour.-Manitoba first-patent flour wa
still quoted at $\$ 5.60$ bags; seconds being $\$ 5.10$, and strong
bakers, $\$ 4.90$ ontario, winter Sakers, $\$ 4.90$ Ontario winter-wheat
flour was firmer at $\$ 5.25$ to $\$ 5.50$ tor
patents; and $\$ 4.70$ to $\$ 4.90$ per berr patents; and $\$ 4.70$ to $\$ 4.90$ per barre]
for straight rollers, in wood.
Millfeed.-Millfed Millfed.-Millieed prices were steady.
Bran sold at $\$ 23$ per ton, and short at $\$ 25$, in bags, while middlings were
$\$ 28$, including bags. Mouille was 88 $\$ 28$ including bags. Mouille was $\$ 30$
to $\$ 32$ per ton for pure. and $\$ 28$ to
$\$ 29$ for mixed. $\$ 29$ for mixed
Hay.-Hains
Hay.-Kains have fallen and have been
of beneft to the crop, although more moisture is needed. No. 1 , pressed ha
car lots, Montreal. trater $\$ 16.50$ per ton, while No. 2 extra
was
$\$ 15$ to $\$ 15.50$; and No. 2, $\$ 14$ $\$ 14.50$.
Seed.
Seed.-Prices were: Timothy, $\$ 10$ to
$\$ 11.50$ per 100 tids $\$ 11.50$ per 100 Ibs., Montreal; red clover, Hides.-Beef hides were 1c. up at 14c.,
15c. and 16c. for Nos. 3. 2 and 1 respectively. Calfskins were 16c. and 18 c . for Nos. 2 and 1; and skeppskins were
$\$ 1.35$ to $\$ 1.40$ each. Lambskins were
higher at 25 c. each: with horsobidea higher
ranging from $\$ 1.75$ for No. 2 to $\$ 2.50 ~$ each for No. 1. Tallow sold for 1 fc .
to 3c. for rough, and 5c. to

## Bufialo

canada cut quite a figure in the
cattle trade here the past week. Of the
110 . 110 loads offered Monday something like
one-third were Canadian offerings in addition, a large number of shipping steers were Canadian steers shipped to
the country for feed and brought the country for feed and brought back
to the market for sale. Extreme trap of 89.50 was paid for a couple of Can-
adian yearlings-steer and heifer, and best Canadian shipping steers on the
strong weight order, ranged from $\$ 8.75$ to $\$ 8.85$. It was, a 1 1c.. to 25. highor
mal ket than the week before, and quite in contrast to the previous week's trade,
in that there was more life and action to the market than had been witnessed for several weeks. The short supply
and the fact that New York needed some quick cattle, to fill in with, on a account
of . Tewish holidays the latter part the week, was one of the prime reasons for a very high trade. Butchering cat-
tle sold to equally as good advantage, these bringing generally 15 c . to 25 c . betCer prices, with the possible exception ot
cutters and canners cutters and canners, which brough the shipping steers were cleaned up by
nine o'clock. and there was demand for
more. All of the eastern order buyers more. All of the eastern order buyers
were in the day's trading. Handy butch-
ering steers sold up to $\$ 8.75$ to $\$ 8.85$; ering steers sold up to $\$ 8.75$ to $\$ 8.85$;
a load of short twos, very fancy and of a ery hard flesh, brought 8.25 , going to
vew York. They weighed only 1,177
N New York. They weighed only ${ }^{1,1}{ }^{\text {ms. }}$
ws. Another load made were heavier. Canadians were better the
past week. than for some weelte and were taken readily for New York and far eastern demand. Stockers and
feeders ruled full strong with the weel before. selected. dehorned, fleshy feeders
being quotable up to $\$ 8$ to $\$ 8.25$, with fair to good kinds of stockers and feed-
ers selling from $\$ 7.50$ to 87.85 . Very ers selling from $\$ 7.50$ to $\$ 7.85$. Very
little in the light, common stocker line is selling below $\$ 6.50$ to $\$ 8.75$. Handy
fat heifers and good-feshed cows none too plentiful and are selling high,
nhoice butchering heifers being quotable
$\qquad$ bulls the past week ranging up to $\$ 77$ 2. Milcher and springer trade wa.
unchanged, some fancy and heavy ducing grades bringing high figures, but the general run of good grades is sell ing from $\$ 75$ to $\$ 85$. Handier cattle
are becoming more popular as the hot are becoming more popular as the ho
weather approaches, though sellers ge erally take the position that there will
be such a scarcity of strictly dry-fed steers this summer that they will
bring high prices. Moderate runs are

Up to this time comparatively




 period a yearr asb.. Quotations












 reaction' occurred Thursday and Fridey.
bulk of Thurgday's sales being made at
$\$ 8.60$, while Friday, majority moved at bulk of Thurgday's sales heing made at
$\$ 8.60$, while Friday, majority moved at
$\$ 8.655$ Monday's run included soven
decks of Canadian hogs, and the maJority of these sold at $\$ 8.55$, one dene
$\$ 8.60$ Thar
$\$$ Thursday, couple of buinchee of Canadians moved, at $\$ 8.50$, and Fridey,
one or two bunches from the Canditia one or two bunches from the Canadian
section that were on the York order averaging around 170 liss, brought 38.65 .
Roughs, the past week, ranged trom
$\$ 7.25$ to $\$ 7.25$ to $87.50 ;$ and atags maostly $\$ 8.50$
to $\$ 8.75$. Receipts the past week were
30,46 8086.75 . Receipts the past
80,400 , as against 34,880 the
week, and an
$\qquad$ showed a lambs. - Lamb Monday, which was practically the hi
day, tops sold up to $\$ 8.40$, and befo
the week was over the week was over, or on Friday, buy-
ersy got chocice, handy ones down to 88 .
Celvee.-Celf prices were held totenty the first three days the past week, tope
selling at $\$ 10$ to $\$ 10.25$; cullis $\$ 9$ down.
Thurg Thursday the market broke a quarter
and Friday's trade was strong; fien
choice veals reaching 810.25 , with buik choice veals reaching \$10.25, with bult
Butter.-Creamery, prints, 28c.; cream.
ery, extra, tubs, 27c.; dairy, choice to fancy, 23c. to 24c.; dairy, fair to good

Cheese,-Cheese, Rancy, old, per tr.,
19fc. to 20c.: cheese, good to ohoice, Egge-white, 290 , 20

## Chicago.


 58.70 to 88.75 ; calves, 87 to 89.30 . ${ }_{77.85}^{\text {Hogs }}$-Light, 87.85 to 88.07 t; mined.
 bulk of sales, 88 to 88.05
Sheep,-Natives, 85.25 to 36.15; yoar lings, 86.10 to 87 ; lambs, native, $\$ 6.1$
to 88.20 spring lembe, $\$ 7$ to $\$ 9.75$.

## Cheese Markets.

Campbelliford 1111 1i-16c. and 11 s.16c.. balance refued at 11 ec.; Litslet station,
Que., butter, 22c.; Vankleek Hill, white,
 Brockville, 120 . and 121 1-16c.; Kingoton
colored, 121 1-16c., white, 11 l c.; Alozan

## Gossip.

In Collver V. Robbins' advertisomént, sire of his herd bull is mentioned' the Ontiac. This should read Pbintio
Korndyke No. 25982 , the world ${ }^{2}$. est dairy sire. This correction will be
made in subsequent numbers.


Love of Life.
Love you not the tall trees Cooling wide their their branches.
Cooling with thair green shade the
Love youn not the little bird lost among
the leafetas. Droemily repeating a quanint, brief tune?

It there not a joy in the waste windy
In there notes : a song by the long dusty
way?

- there not a glory tif the sudden hour



## day

Love you not the meadows with the
Love yoi tot the eloud-focks noiseless
in their flight? Cove you not the cool wind that stirs to mieet the sunrise; or ye warm
you never wept with a grief that
slowly pasees,
Have you never laughed when a joy
Know you nunning by?
You have not learnt to live, then; how

Browsings Among the Books.

## ostponing life.

[From
son.
Now
time
Morais, by R. L, Steventime seems to me to want greatness,
end the dialect in which alone it call and the dialect in which alone it can of my soul. It is a sort of postpone
ment. of life : nothing quite is, but some mant. of life ; nothing quitit is, but some
thing diferent is is bein we to ken
our eyes upon the indirect from the our eyes upan the indirect irom the
oratile ot the grave. We are to regu-
late our conduct not by desire, but by by a politic eye upon the future; and to
value acts as they will bring us, in ont word, Proctive We must be what is
called respectabie, and offen mo ne by
 in virtue, says the christian parent !
And we must be what is called prudent and make moneyy not only because it is
pleasant to have money, but because pleasant to have money, but because
thant also is a part of respectability,
and we cannot hope to pe recelved in and we cannot hope to be received
socioty without decent possessions. Re-
ceived in society ceived in society: as ${ }^{\text {as }}$ if that were the
kingdom of heaven!
There is dear Mr. So-and-so :-look at him l-so much re-
spected so much looked up to-quite the
christion merchant our conduct an strictly as pe must ent anter
the pattern of Mr. So-and-ssi and lay our whole lives to make money and junctions, which form by far part of
Christian
other do other doccrines. We are to live
now as well as we can, but scrane last into heaven, We are to worry throush
good. We good. in a lazy, disseputable way, but,
week life on Sunday. If you teach a man to keep hit eyes upon what others think of him.
unthinkingly to lead the life and hold the opmions of the majority of his con
temporaries, you must discredit in his temporaries, you must
eves the one authoritable voice of his
one eyes the one authortub
own moul.
He may be $a$ accile e citizen hen will tever be a man. Id is ours.
ho the other hand, to
on
disegard this
babble and chattering of other men betbabble and chattrering of other men bet-
ter and worse than we are, and tow walk
grtaight belore wi by what light we straight before us by what light we have. They may be right, but so, bo
fore heaven, are we. fore heaven, are we. They may know
but we also know, and by that knowlodge we must stand or tall. There is such a thing as loyalty to a man's own better salf; and from those who
have not that, God help me, how am I to look for loyalty to others? The most dull, the most imbecile, at a certain moment turn round, at a certain point
will hear ne further argument, but will hear no further argument, but irrational sense of right. it is not only by steol or fire, but through contempt and blame, that the martyr ful-
fils the calling of his dear soul. Be glad if you are not tried by such extremities. But although ath the morld ranged
themsalves in one line to toll you "This themselves in one line to toll you "This wrong," be you your own raithrul
vassal and the ambessador of Godthrow down the glove and answer, "This is right." Do you think you are some dim way, like a child who delivers opening wider the etraits of prejudice and preparing mankind for some truer and more spiritual grasp of truth; per-
haps, as you stand forth for your own judgment, you are covering a thousand weak ones with your body; perhaps,
by this declaration alone, you have avoided the guilt of false witness
against humanity and the little ones unborn. It it goon, I believe, to be re-
bpectable, but much nobler to resped spectable, but much nobler to respoct
oneself and utter the voice of God. God, if there be any God, speaks daily in a new language by the tongues of
men; the thoughts and habits of each men; the thoughts and habits of each
fresh generation and each new-coined spirit throw another ingte upon the uni
verse and contain another commentary on the printed Bibles; every scruple,
every true dissent, every glimpse of every true dissent, every glimpse
something news is retter of Gods
alphateti, and though there is a grave responsibitity for all who speak, is there
nono tor those who unrightoously keep silence and conform? Is not that also
to concoal and cloak God's counsel? An conceal and cloak aod counsel
And how should we regard the man of
science who suppressed all facts that woul not tally with the orthodoxy of
the hour.

## The proft of every act should be this, that it was right for us to do dit.

The walk, not the rumor of the wall.

For my own part. I want hut little
mones, I hope; and I do not want th

Little Trips Among the Eminent
north shore of Lake Superior at the
mouth of the Kaministiquit Fiver, an-
other on the Lakee of the woods, and a other on the Lake of the Woods, and
third on Lake winnipeg.
How much farther than this the continent extanded there was no means of knowing.
As a result Lieutenant La Noue was authorized to begin the work, and actu-
ally built a stockade fort on the Kam aly built a stockade fort on the Kam
inistiquia, then, for some reason, the work stopped, alt hough the expedition was still kept in mind.
Four years later Charlevoix was Atherica and gain all possible information in regard to the difficulties in the
way.
On his arrival he proceded way. on his arrival he proced aid
once to the Upper Lakes, and, finding it impossible to secure any reliable data in regard to the great lone West, showed some ability in formulating a
plan to gain his end by establishing a $\underset{m}{\text { plassion and fur-trading post among the }}$ Sioux. It was not the fault of Charlevoix that the scheme micoarried.
As soon as possible ${ }_{\mathrm{a}}$ party was organioed, with Father Cutingae as mis sionary and La Perriere as chief, It
left Montreal in June. 1727 , followe the well-known trail to Michilli mackinac, consin Rivers towards the Mississippi, constructed a fort. called Fort Beaiharnois, on Lake Pepin. Trouble arrive with the realization that the sloux wer not disposed to be rriends but enemies, Then came the Verandryes.
$\qquad$
"Rene Gaultier de Varennes," says our historlan, "married at Three Rivers, in
1667 , the daughter of Pierre Boucher, governor of that place; the age of the bride, Demoisella Marie Boucher, being
twelve days. Varennes succeeded his father-inlaw as governor of Three Rivers, with
a salary of twelve hundred francs, to a salary of twelve hundred francs, to
which he added the profits of a farm of forty acres; and on these modest reSources, reinforced by an illicit trade in
furs, he made shift to maintain the dignity of his office. His wife became mother of numerous offspring,
among whom was Pierre, born in 1685 , -an active and hardy youth, who, like
the rest of the poor but vigorous Can adian noblesse, seemed born for the
forest and fur-trade. When howevar the War of the Spanish Succession
broke out, the young man crossed the broke out, the young man crossed the
sea, obtained the commission of lieuten-
ant, and was nearly killed at the battle at Malpaquet, where he was shot
hrough the body, received six sahrecuts, and was left for dead on the field when, finding his services slighted, he
agam took to the woods. He had as sumed the designation of La Verendrye, and thenceforth his full name was
Pierre fraultier do Varennes de la Ver-
endre o, Almost from the day when in 1,728 ho
was put in command of a little post on Lake Nipegon, La Verendrye had dream The stories of the Indians that it migh west ward ho thought might be true, but he had an idea that such a river migh
be reached, not through the country
the Sious, hut through the contren
$\qquad$
 ada instead of permitting it to ko
an. Finglish posts on Hudson's Bay

On the 8th of June, 1731, with his three sonse, a mephew, and, aparty of
Canadians, he left Montreal, and late in August reached the portage betmeen Lates Suparior and Winnipeg. Here the men mutinied, and it was only after long dolay that some of them were per
suaded to push on with La Verendrye's suephew, La Jemeraye, to Rainy Lakke
ne nephew, rest, sullem and uselese, remainin with La, Verendrye at
qua through the winter
qua through the winter. The next summer La Verendrye, started
on the projected journey to Lake Winnipeg, but disaster followed disaster some of the men deserted; supplies did not come, La Jemeraye died, the Jesui
of the party with La Verendrye's elddes son and a party of twenty Canadians an attempt to return to Michillimackinec were all murrdered by Siourx: on

In 1740 La Verendrye went for the for his expedition, only to find, as I Salle and Cadillac belore him had found in regard to themselves, that enemiee
had been busy during his had been tusy during his absence, and
had writtes to France that he was only unxious about making his own fortune and not at all in the fortunes of his great undertaking, -this in spite of
the fact that he had assumed. debt of 40,000 livees in the attempts heretofore made. Nor, indeed, had those atconpts beean artogether futile. In the face of creant region adioioining had explored a graat region adjoining
the Upper Lakes, had divertod a considerable proportion of a rich fur-trade from the English on Hudson's Bay to
the French. and had established six fortifed posts: Fort St. Pierre on Rainy Lake; Fort St. Charles on the Lake of the Woods; Fort Maurepas at the mouth Of the Winnipeg River; Fort Bourbon on
Lake Winnipeg Fort La Reine on the Assinniboine: and Fort Dauphin on Lake Manitoba, all stockade works flanked with blockhouses. In adartion ho had portant western Canadian city of the future by establishing Fort flouge on
the site of the present city of Winnipeg.

All this, however, was not greatly for-
warding the movement towarcs the Pacific.
Even among the Assiinniboine Indians, rom whom he had expected relifible inauthentic. There were ereat rivers to
ate with serpents of prodigious size, and white men who had knives and natcheto. Of mors inportance, apparently, was
heir assertion that there was E tribe
tren their assertion that there was
on the Missouri called Mandans, who new the way to the great western sea wenty men in October, 1738 , wit prairie for the Mandans, his Irdian On the 3rd of December the first Man wan vilage was reached, and great
was the excitement among these dusk Mre cen of the West, who had never be was again to the fore. Some of the out which he could do little with thi
Indianss and to make matters woree his girl and he was left without any wa Before the interpreter's departure, how ever, stories had been heard of white cosed in iron so that, in order to secur
them, it was necessary to shoot thei

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Beauty Spots in Canada-An Under-current Cave, on Branch of Yamaska River, near Brome, Que
lorced their way up into Southern Cali-
formia tornta.
In the depths of the winter, he him' In the depths of the wing
self very ill, he was obliged to return
to Fort La Reine which he reached on to Fort La Reine, which he reached on
the 11th of February, 1739. "It would the 11th of February, 1739. "It would
be impossible to suffer more than I did,"" he wrote, "it seemed that nothing
but death could release us from such miseries

La Verendrye had left two men with the Mandans to learn the language and prosecute enquiries.
(1739) these arrived at
Fort with news of another tribe towards the Land of the Sunset who knew of white men near the great sea who "lived in houses of brick and stone, wore beards,
and prayed to the Master of Life holding books with leaves like husks of Indian corn," "umdoubtedly the Spaniards of California. The chief had invited the two to go with him to this country, but
said a great detour would have to be made to miss a tierce and dangerous tribe, the Snake Lndians.
La Verendrye listened with great inlerest to this story, and, although tey broken in health to essay the journey,
in the spring of 1742 despatched his two sons, Pierre and the Chevalier de la Verendrye, with two Canadians to
make the attempt once more to reach the sea.
On the 29th of April the little party of four left Fort la Reine, and in du time reached the country of the Man covered with willow matting and covered with clay, so that they looked like round flattened hillocks of earth forty Securing guides here they pushed on Securing guides here they pushed on
again aver the prairies towards the Yellowstone, finally reaching the Bow In-
dians whon they found making ready dians, whom they found making ready
for a war a They would show the strangers the Great Water, they said, and so the march began, the two Frenchmen travelling with the swanmars painted with ochre and arrayed in tunics of fringed buckskin embroidered with porcupine quills, papooses, and Indian ponies laden Soon the open prairie was left for a more rugged country of broken hills and
deep rivers, where prairie grass gave way to dusty gray-green sage brush. pearect the first of January, 1734, ap-
flimpse of the Rockies pearen the first glimpse of the Rockies,
tron a point east of yellowstone Fark,
and in twelve days the foot of the and in twelve days the foot of the
mountains was reached. At one point the women and children
were left bhind were left bohind and the warriors pushed on, only to find the camp of the saakes
deserved. In a wild panic lest the
tribe might fall on the defencless wo- and after all we were doomed to see a
men and massacre them, tue warriors stranger gather the fruit we had taken
made a hasty retreat, but found all sucli pains to plant." made a hasty retreat, but found all
safe. it was determined to return without furthar molesting the Snekes. without On the 2nd of July, 1743, the Ver-
endrye brothers once more reached Fort endrye brothers once more reached Fort
La Reine Sixty-two years later Captains Louig and Clark finished the trip to the Pa $\underset{\text { cific. }}{\text { Not }}$ Notwithstanding the importance o
their their explorations the Verendryes re
ceived but little reward, either in thank or enrolments, for their labors. The fether, shortly before his death at Mon St . Louis. One of his last acts was to send a large quantity of goods to his trading forts. Afterwards, through evil machinations, the sons were despoiled
not only of this, but of all the forts. not only of this, but of all the forts.
Henceforth they were never able to retrieve the blow. "My other brother whom the Sioux murdered some years
ago,", wrote the ago, wrot unfortunate among us." "We spent our youth and our property,'
wrote the ellder brother, "in building up wrote the elder brother, "in building up
-The old story of so many among the men who lay foundations.

## Hope's Quiet Hour.

## Exalted by God.

 He humbled himself God also hath highly exalted Him.- Phil. Our Lord has told us that the road glory leads through the valley of humi shall be ebesed; and he that humbleth himself shall be exalted." That was the oad to glory in His own case. He death of the Cross, therefore God also hath highly exalted Him. Christians of many different opinions unite in celebrating the Birth, Death and Resurrection ofare nearly empty on that other gree day-forty days after Easter-which has
for many hundreds. if for many hundreds of years been set
apart to commemorate His Ascension Is it because people fancy that the crowning triumph of their Champion wa a matter of little consequence
We pray, in the Collect for Ascension
Day, that we may "in heart and mind" ascend with our King and dwell with Him with our King and dwell with
the way to to hes. Let us not forget that the way to heaven lies through the val-
ley of humility. The way is not an ley of humility. The way is not an
easy one, and does not look very at
tractive. A few days ago $I$ was in a grea church which was flled with people. Th choir sang with pathetic sadness those
words which have sounded their solemm warning through all the Christian ages "He hath filled the hungry with good things : and the rich He hath sent empty The The people had crowded into the church
until every available seat was ancd Were they very hungry for spiritual food, or were thiey only eager to hear th magnificent new organ ? Only God knew
but I was quite sure-as I heard th familiar words so beautifully sung-that those who were really hungering for Go and holiness would not be sent empty good from the churce that they get no good from the church services. If that heve no healthy appetite for spiritual present condition-like the Pharisee in the parable-are sent empty away. They
seek nothing from God, is it Hie seek nothing from God, is it His fault it
they find nothing ? One woiman, whose sickness had not been accopted theerfully and meekly, said
"My troubles heve "My troubles have done mee no good; they have only hardened me." Was that not her own fault? Troubles are only
the road to exaltation when they are
bravely endured. God bravely endured. God does not make
people saints by force. There it no people saints by force. There is no
royal road to holiness. A king, as well as a slave, can only be exalted "unto the same, place whither our saviour Christ is gone before" if he is humble in
his own eyes. It is possible for a man his own eyes. It is possible for a man
to congratulate himself on his high position in the world, on his gifts to the needy, and on many other things which seem to him of great value-and yet he
may be very far indeed from the glory may bo very far indeed from the glory
of God. Thurch of the Laodiceans
thought itself very rich. thought itself very rich, and in need of
nothing, not knowing that it was nothing, not knowing that it wa
"wretched, and miserable, and poor, an wretched, and miserable, and poor, and
bind, and naked." Those who approacl God in that self - satisfled spirit samino faill to be sent empty away.
If we are to ascend with
If we are to ascend with Christ, and carry our relligion into the ordinary busi-
ness of the week. neas of the week.

THE FARMER'S ADVOCATE

## 

were $i$ lound engraved

 Christ is ready to meet His disciples in the midst of their everyday work, as me showed hadmsilf to the seven fishernight. A successful business man used ny lite to "I give a man the value of his noney, and I have known no one who has succeeded on any other principle. in gaining millions, but he could never win any real glory through
fellows of their juding his
for tellows of their just due. This principle
holds in small things as well as in great. talds in small things as woll is the praise
It is a small thing to win the of men, but no one can really be exalted
by God uni.ess he is worthy of honor. by God un.ess he outwardly be strong,
One person may ord
yet inwardly be weak and sell-indulgent; while another may be a helpless cripple ath the days of his earthly life, yet may
have grown strong and beautiful in soul through years of brave endurance. Wealth, physical strength, and beauty, ocial position, etc., do are lent for a the people thy may be taken away even in
time. The
this life, they certainly must be left behind at death; but treasure laid up in heaven, spiritual strength, beauty, and
rank rank, really belong death can take them
neither accident nor dien
away. The more closely we look into away. The more closelainly we see that these things the more pal substance, while the visible is only a shadow or picture of it. Let us then set or then on
steadily on realities rather
sin earth with heaven through the Ascension, as He linked heaven with earth throug the time forced to remain here on earth a time, will gladly bear us company; and al thowgh He has ascended into heaven, we may "in heart and mind to dwell." Jacob fell asleep in the lonely wilderness, and he saw in a vision the great
ladder which was the King's Highway, on which His messages passed to and
tro. Our Lord has declared that He is the Way, and He is here. The place where you stand is-like Jan sate which leads into heaven; and the gates are open day and night. From the rush and roar of a busy city street the soul can
climb the ladder-it surely was not climb the ladder-it surely was not
placed only for the use of the. angelsplaced only for the use of the angels-
and kneel humbly before the King of
Glory $\cdots$ Cry, and upon Thy so sore logs Shall shine the traffic of Jacob's ladder
Pitched between Heaven and Charing Life need not be dull and humdrum.
A few days ago I saw a big,
heavily - laden dray, and above the
head of each horse nodded a pink
rose. It probably was an artifcial head of each horse nodded a pink
rose. It probably was an artificial
flower, but at least it showed that some lower, but at ans add a touch of beauty
body was able to add
to work. The same day I saw a garbage cart drawn by a horse decorated
with a cockade of gay ribbon. Doctor
Cabot, of Boston, has described, in a book recently published, a railroad con
ductor who usually carried a rosebud o other flower between his lips when o
duty-adding a touch of grace to
 disguised millionaire, and gatherse every
blossoms in his own greenhous
day. Anyway, he carried the pertume and fresh beauty of somebody's green
house into those dingy cars every da throughout the winter that
him.".
God has hidden a secret glory in every commonplace duty. We may live in
light of His felt Presence if wee chon
God hath highly exalted our Ei
 glory to glory."
No duty can be dull if we do "h
Christ and in His strength, with
( and heart uplifted to Him. We
grow like the Friend we are living . For when I draw myself apart Fror when
From thinge draich make my visic
neep in the sitence of miy heart

## 

## Club

## "A Man's a Man for a'

 That.(Written by M. S. C., Elgin Co.)
LITERARY SOCIETY.-STUDY IV.

$$
\begin{aligned}
& \text { When I was working in Toronto I got } \\
& \text { great deal of experience and twenty }
\end{aligned}
$$ great deal of experience and twenty

ave cents an hour. The story $I \mathrm{am}$ go ing to tell is more or less
Pete, thé Irish foreman Pete, the Irish foreman, was at the
work-bench grinding the valves of gesoline engine. I was' renewing the
steam-fitings of an old steam engine. Just as I was coupling. the last ynion, the bookkeeper opened the' door of his
office and said, "'Peten" Mr. Grahaim wants you to go up to St. Clair avenue and fix Jackson's hoist. There is something
wrong with the lifting-clutch: You will wrong with the lifting-clutch, YTh wh
understand when you see itt.".then he
closed the door, leaving Pete singing closed the door, leaving Pete singing
"For they say that Annie's. lousy," and "For they say that Annie's lousy," and
collecting his tools. I knew why Pete was thapy. Anyone would who had
ever worked in a city machine-shop and was given the chance to go out into the
warm, pure sunshine of a bright Mav warm, puu
morning.
I was just cleaning my tools after finishing the engine when the bookkeeper
again opened the door. As I was out again opened the door. As I was out
of sight behind the engine, he yelled, "Jack, oh, I say, Jack, the boss wants you in the office right away. Make it, snappy now !"' I did make a chance to go or I hoped I would have a chance to Just as I entered the backk dor of the office, a young, very
dark darkey, came in the front door. dark darkey, came in the front door.
Mr. Graham turned to me and said, Mr. Graham turned to go down to the Grand Trunk freight yards and unload a car. Take the tools you expect to need,
and hurry. Get a team from Hendrie's and hurry. Get a team from Hendries gasoline engine on the first load, for it has to go to Hamilton on the 2 . o' clock
boat. Hoeke Bookeeper ! give Jack the
Hote number of
car tickets.
I went into the inner office while the bookkeeper hunted for the car number
It was then that I heard Mr. Graham say, "Well, sir, what can I do for you?" "I want a job, sah."
"Charles Featherstone Davis, sah.
Born in Cuba. Late of New Yorls, "Are you married ?"
"Yessah, and I'se got one chile."
"Will you work hard?" "Yessah, Boss, any man will work
when he's wite and chile's $a^{\text {' }}$ starvin", whlright, Charles, Inl just give you
six dollars a week to keep things tidy around here. If you have any spare
time, Pete will let you help set up machines. When you know all about them,
I'll get you a job outside. When can
you start, sir?", "Right away, boss; right away. r'll
have ma overall here right after dinJust then I got the car number and
the tickets and started for the freight yards.
Somehow the sun didn't shine just
right. The freight yards were more than right. The freight, yards were more than
dusty. I wondered what had put the
damper on my spirits. dusty.
damper on my spirits. At last I sai
to myself. It's that darkey I Just
think; I came to the city expecting
and think; I came to the city expecting to
find culture and education. I wonder
what the people around home would what the people around home would
think if they knew who one of my shop-
mates was. I don't know anyone in this city except the people I meot in
busincss, and how can I possibly make any decent acquaintances ?
if didn't know then that thurch
was the hest medium of social inter-

 time tor Knicht of the Cerip" at
 relish the idea of working with a darkey. reilsh the idea of working with a darkey.
Pete especially was very abusive, for he Pete especially was very abusive it expects
said, "Holy smoke I It boss experts.
me to work with a niger he is misme to work with a nigger he is mis-
taken. Just fancy taking a tar - baby
out with you on a job! I'll be hanged out with you on a job! $\dot{I}^{\prime}$ 'll be hanged
if he'll stay long, though, for I'Mork worm if he'll stay long, though, for r'll work
the d- out of him. All niggers hate
worl worse'n pizen.". work worse n pizen.
A month passed by and Charley became
very popular with everyone in the shop very popular with everyone in the shop
but the foreman. He was very funny, but the foreman. He was very
and would do anything to please us.
We all tried to make Pete like him, but We all tried to make Pete like him, but it was of no use. Pete would never
speak of him unless he called him the speak of him unless he called him the
tar-baby, or give him an order without adding to it some insulting remark.
The reconciliation came on June The reconciliation came on June the
n winthe wemember the day, be-
I ceupe that day I left the city for the
carie, realizing that there was "no place cause that day I left the city for
farim, realizing that there was "no place
like home," especially if home happened Tike home," especially if home happened
to be a arm.
Pete came out of the offlice and put his Pole came into the auto-truck. Then he came over to where I was working and
said, "The boss says we are to take said, "The boss says we are to take
that number one hoist down to George stret and have it working by noon. The
derrick is up already, so we can wark derrick is up already, so we can work
fast. Tell that Ethiopian he had better last. Tell that Ethiopian
come, too."
In a short time we were on the job In a short time we were on anchored.
and had the machine set and When we had the cable threaded and the
cage working, we found that the derrick was about an inch too wide in one place. Pete said he could fix it in a minute, so I hoisted him to the proper place, which
was about thirty feet from the ground. As Coharley and I stood near watching the forman, a carpenter who stood near exclaimed, "Say, boys ! isn't that cable
slipping through the clip just above the slipping through the clip just above the
cage?" We looked. It was slipping cage?" We looked. It was slipping
In ten seconds it would free the cage and Pete would fall. I was too fright
ened to speak. Not so with Charley ened to speak. Not so with Charley
He spoke very clearly and calmly. "Hey, He spoke
Pete 1 "
"What

What the d- do you want now?' "I just wants you to take a hold o Don't spring !
Don't spring! " Just as Pete grasped the derrick with
Jue one hand the cage fell. Pete was safe,
but very scared.
He climbed slowly to but very scared. He climbed slowly to
the ground, and walking over to Charley the ground, and waik, "Charley, old boy, $I^{\prime}$ ve been
he said, using you pretty mean. Shake hands,
will you? You're black, but it only will you? You're black, but it only
goes skin deep." Charley answered as goes skin deep. h . grasped the outstretched hand, "That's right, Pete. The boss says a man's a
man if he's black, yellow, red, or man if he's black, ${ }_{\text {tawny." }}$ The foreman didn't say much more, bat
he "looked" a lot. Presently he seemed to remember something, and putting his
hand in his pocket he pulled out a cigar hand in his pocket he pulled out a cigar
and gave it to Charley. Charley turned and gave "Say, Mr. Jack, will you do
to me. (Charles sometimes me a flavor?", (Charles sords.
mixed his words.)
"Yes, sir. What will you have?" "Ah, just wants a match, sah."
Then, when he had thrown the match Then, when he had thrown the match
away, he shook his curly head and said,
"Bhe "Boys, this am one very happy coon."
M. S. C.

A Simple Love Story

$$
\begin{aligned}
& \text { Written for Study IV., by } \\
& \text { The Mistress of Rose Terrace }
\end{aligned}
$$

I see by last week's Advocate, that
those wh and those who are interested in The Round
about Club, are asked to write a short self "Directly or indirectly they will all be love stories
thought that came to me, was why not?
On what grander. nobler On what grander, nobler. More glorio?
subject could one write? (God is Love, It is impossible for us to imagine th
It state of affairs if ALI, love were to be
banished from our hearts. As the sof warm rays of spring sunshine draws out lie hidden in the heart of Nature after the long dreary winter, so when love
enters the heart. it searches.out and re
am toing I am going to tell you a little
romanex. not becauke it is wonderful, but
imply because it is true; but I must simply because it is true; but 1 must
start at the very beginning, and to do ferm must and farm away up-well never mind where; I
am only going to tell you the story. It was not a very happy home. The
lather was one of those irritable, ather was one of those irritable, faultfinding natures, that are rarely happy
themselves and make things decidedly unpleasant for others. The older children in the family did not seem to mind his moods, and took them quite as a mattor source of dread to the a continual
of oungest, a delicate child, with a timid dreamy disposition.
Unlike most children she loved solitude,
and although she did not realize it at the time, she knew when she looked back in the after years, that Nature herself
folded into the innermost. -recesses of her folded into the innermost-recesses of her
being a lave of the ideal and the grand and noble, and although other influencea entered into her lite, she never entirely forgot the lessons.
One day when the home atmosphere
seemed unusually clouded, she wandered seemed unusually clouded, she wandered
into the woods near ther home, and throwing herself down at the foot of
huge old maple gaive herself up to reflec huge old maple give herself up to reflec
tion in her own childieh way. Though tion in her own ehildigh way. Thought
after thought crowded in upon her puzzled brain, till one more startling than
all the rest /stood out clearly before her all the rest stood out clearly before her.
" "Some day I shall be a big woman and then I shall be married of course, like cross and finds fault all the time For a long time the little brain strove of find an answer. but in vain, till at last came a thought so white and pure
that it might have been a bit of down that was loosened from the wing of a passing angel, and fluttered down, down,
through the blue sky, through the greem through the blue sky, through the green
leafy branches and settled itsell with a little sigh of contentment in the childieb troubled heart. "God is my father and He knows all things and controls all
things," and immediately a host of things," and immediately a host of thoughts
that one cuped themselve thought. knows all things, then he knows whom I will marry when $I$ get big, and He
knows too where the boy is now and what he is like, and $I$ am going to aelk Him to malko him a good boy and keep him good always," and suiting the simple trusting prayer, to the only One she could think of to help her out of her trouble. It seems to me the petition must have caused a smile when it was presented, caut not a scornful smile. I see the Father bend low to listen, and the
smile that illumines His face fills the smile that illumines His tace flls the angels with wonder, and they catch
softly-murmured words, Fiess you child Father will see to it." floated down An echlo must have floated down comport and peace to the troubled hear and the. child went back to her play The vears passed one by one, and the The years passed one by one, and che
child had grown to be almost a woman,
when a new experience came to her. She when a new experience came to her. She
as rather reserved and did not make riends very readily. A young man ad recently started in business in town in which she lived, and he soon-
showed a decided preference for her comimself was entirely respectable and his family were highly though of in that neighborhood, and concratulate her on her future prospects, but she steadily refused to admit even to her the but companionship w.
$\qquad$ One evening as they sat tomether
the steps in front of her home his arm slipped, round her. " रمo," she said trying to push it from "No," she said trying to push "Why not,"" he asked laughingly.
"Beause," she answered, "we are engeaged, and that is omly a lover's privilege."." that is omly a "Why can we not become engaged

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you ao a friend, but I am arraid I can you ask." " "Yust,", he said fierely. "Le "You must," he said fiercely. "Life
woold be bal blank to me without you." The Jume night was soft and ballyy,
but the girl was shivering from head to out the girl was alhivering from head to
foot, and she felt that she must be alone. She had come suddenly to the turn in the road, and her whole future
depended upon the direction she fook depended upon the direction she took
now. As soom as she could she dis$\begin{array}{ll}\text { now. } & \text { As soon as she could she dig- } \\ \text { missed } & \text { him and crept softly up the } \\ \text { stairs. } & \text { She did not light a light, but }\end{array}$ stairs. She did not light a light, but theated herself at the open window where thing temples.
What should she do? It was useless
to go to mother, sister, or friend for to go to mother, sister, or friend for
advice for she knew they were all advice for she knew they were all
strongly in tavor af it, and why should
it not be she asked herself. "He is able to give me a good home; we are
both members of the same church; and I like him as a friend; what more do I
want? This thing they call love may want? This thing they call love may
be only a trick of the imagination, and be only a trick of the imagination, and
what right have I to make this man
miserable? I do not care for anyone misarable? I do not care for anyone
else, and it is a very great chance if anyone else will ever care enough for
me to do me the honor of asking me to me to do me the honor of asking me to
share his life. Would it not be better then to bring my imagination to the re cue, and try to make myself believe ${ }^{1}$
am in love and make the man happy?
But am in love and make the man happy
But somehow she ssemed like one
alone in a strange place surrounded by alone in a strange place surrounded by
thick darknesse: she dared not take one
step in any direction for fear of stepstep in any direction for fear of step-
ping over the brink of some awtul
precipice; but once more that little precipice: but once more that little
white-winged thought futtered down
through the silver moonlight and through the silver moonlight and nested in her heart. "God is my
Father. and He controls and knows all
things and I will ask him.", and once things and I will ask him,"' and once
more she knelt and poured out her heart more she tnelt and poured out her heart
something after this manner: " "Father Thou knowest all about my perplexities Thou knowest how small and weak I
feel when brought face to face with his question which concerns not only ny future happiness but that of an-
other as well. Thou knowest I have no desire to sacrifice another's hiappiness, but the future is all dark and
mysterious to me. Thine eye alone can piorce its mystaries, therefore, I pray Thee, as well for his sake as my own choose wisely."
She arose from her knees and liited the sible longing for some message of cheer She opened it at random, and her
glance fell upon, 1st Kings, 3, where
God had asked Solomon what He hould give him, and Solomon asked wiedom, not only for himself but to choice pleased God, and he he, granted his his
chater and
desire. Was not this exactly what she desire. Was not this exactly what she ad asked for, not for herself alone but
o deal with another as well? and again the trust and confidence of childwith the "peace of God that passeth al

seeing the look of surprise he

THE FARMER'S ADVOCATE and befre she went elt and asked the
Father's blessing on this new friendship.d


How Many Did You Catch?


## TheBeaverCircle

Our Junior Beavers. (For all pupilis from Firrot Book to
Junior Third, inclusive.]

## Junior Beavers' Letter Box.

 Dear Puck and Beavers, - This is $m y$ just began to your Circle. My father just began to take "'The Farmer's Advocate," and I am very glad to read the Beaver Circle when it comes. I am ton ears old, and am in the Senior Second lass. I go to school whether rain or Russell I have oun la Miss Loi go to school. I have two aidere to five brothers. My sister and I take music lessons, and we play duets together. My sister is a year and o halt older than I am. As my letter is seth ling long, I guess I will close, FLORENCE TOTTM South Woodslee, Ont., R. R. No. 1.Dear Puck and Beavers,-This is my rst letter to your Circle. We hive on farm of 120 ecres. For pete I hev two eats; their names are Flufy and nowball, and two dogs; their names are Collie and Carlo. Collie is a little pup. He is cute, and he comes to meet me
every night when I come home from school. Our teacher's name is Miss Tent Holmes. We all like her. I have a
brother going to high school; he is in brother going to high school; he is
the Third Form. Good-bye.
MILDRED I. THOMSON. MILDRED

Dear Puck and Beavers, - My father hae number of years, and likes it fine, and
finfalways read the Beever Circle Thelways read the Beaver Circle with th
terest, but never could pluck up coura enough to write. I would like very nuch to become a member of your Circle.
live on a farm of one hundred acrea and am just across the road from school.
Our teacher's name is Miss Macklin. - Sh oards at our place, and we all like her here are two railiroad tracks running
hrough our farm, the C. N. R. and the through our farm, the C. N. R. and the niderably. I. have a sister older than I nd a brother younger. My sister and started yet.
We got hockey boots and skates lae inter and learned to skate
I will close now, hoping that hungry
w.-p. b. will not want to swallow thil eetter when it arrives. I remain an in terested reader. JEAN M. STIRLING (age $9, \mathbf{S r}$. II). Agincourt, Ont., R. $\mathbf{R}$

Dear Puck and Bea taken "The Farmer's Advocate" 1or
number of years, and he likes it ane. have a little sister two years old. Her name is Margaret Pearl; we call her Margaret. I I go to school every day
can. I am in the Second Book. Our teacher's name is Miss M. Megregor. I go to Sunday school and to ehurch
about a mile away. I guess I muat close now, so good-bye.
MARY MeDONALD (age 7). Kippen, Ont

Dear Puck and Beavers,-As I did not
see my first letter in print I thought soe my first letter in print I thought I "ould try again. My father has taken
"The Farmer's Advocate" as long as $I$ can remember, and as soon as it comes into the house I look up the Beever
Circle. It is very fine in Algoma; the lambs are skipping around. Well, I will close this time, hoping this' will fare

```
Plummer, Ont.
```

Dear Puck, -1 like to read the Beaver Circle leuters, very much. We live on a
tarm of two hundred acres. I go to farm of two hundred acres. I go to
school about every day. and. like it very
much I am gong to copy some versee :


## The Ingle Nook.






Dacr Inglo Nook Friende, The otherr


 to thr Ingio Nook sanctum two ot tho
 my more diminutive mell. driviva amay soow at tho weather when it becomes
 ture over hall a continent.
Tho day was hot. Heary turks wer

 the jer and rumbie of it all came a vicio, or vico, tram one of the sturies.
of it," " have aver bean a "writer",





 "Everything's important,", says he
-I dontit believe one thinges more
mim portant than another, if a man's doing
what ho What ho hilies.
Perhaps you don't believe that. Your
routine of life seems trival. Preachin soums of more important to trival. Preaching
seau than larming, practising medicine mou im-
portant that store-keoping; writing portant that
books
more ${ }_{\text {important }}$ storing; $\begin{gathered}\text { writing } \\ \text { than } \\ \text { bending }\end{gathered}$ books more cokstove, and teaching in col-
over a halls more so than washing child-
lege lege halls more, so than washing child
ren's faces and getting them off to ren's
school
Thut are these things more important $\begin{array}{ll}\text { Personally I have come to the con- } \\ \text { clusion that they are not. } & \text { Lie low and }\end{array}$ listen, open your eyes wide and look,
and you will discern everywhere a great continuity in things all over the earth snap one cos and, more or less. tho
whole fabric goes to pieces. Thint, of what it would mean to the world if the little children's faces ! To sour limited vision the work of the
very eminent preacher or states-
 that of the mass of workers,- and
truly, we must not underestimate th influence of these, our great ones, flall benediction: we must hold close o hero-worshe reckoning of the Infinite al
that in the rect work. for all are necessary. Anothe lar workers, the plodders of to-day may be having their turn. We do not know
what the future may have in store for
til, as the Japane
changed our world."
Even leavng all that out of account, one cannot but have noticed this, that to many or the greares. Have you
little thing is important. never, noticed how invariably IN TERESTED most of the greates
people are in everything
in chances to come up? This great man shows you his garden, the work of his hands, with a pride that fairly beams that one is proud of his carpentering
another of putting a good shot at golf and so the story goees. Now can't we all learn the lesson, adopt the qaculty of being interested as we go, interested
in the work for the work's sake? This in the work for the work s sake? This
thing that we now do is important,
next hour, or to-morrow perhaps, we next hour, or to-morrow perhaps, we
shall do something else, and that will be important also.
-But Californ1a John puts in proviso. "One thing is not more im-
portant than another," he says, proportant than another," he says, pro
vided a man is "DOTNG WHAT HE
LIKES." Likes." Now California John is thinking of
Just the routine duties of plain Just the routine duties of plain lives,
and, applying his philosiophy to the and, applying his philosophy to the
odds and ends of work in every house and on every farm, may we not reason-
ably query, why dislike doing ably query, why dislike doing anything?
Why not be interested in everything as Thy not be interested in everything as
onesesper whatever it be, seeing that
oneself does not change? oneself does not change? A Doctor of
Phillosophy hauling out Philosophy, hauling out manure for his
strawberry bed is a Doctor of Philoso strawberry, wed is a Doctor of Philoso-
phy still, with Doctor of Philosophy thoughts; Tolstoi in his coarse peasants blouse, driving a plough (badly, it is
true) is Tolstoi still, the same wrote "War and Peace," "My Religion," and "What Shall We Do There?" It the mind of the man that counts. Put
it in the right attitude it in the right attitude and nothing else
matters, everything is dighififed and ious.
Of course there is another sense in considered. I. do think likes" must be one's life-work involves a mighty- re-
sponsibility. For our life-work we positively must have what we like to posiwe are to realize our best selves and
wustify our existence here on this won-
just justify our existence here on this won-
derful, mysterious earth: derful, mysterious earth,
Among the clinging
past in my own life is one of an the dress given by the late Professor the Central Extorperimental Farm ene Central Experimental Farm, to an
enthusiastic group of young students in Ottawa. His subject was "Choosing a
Vocation, in Vocation, in Life," and with all the en-
phasis of which he had command vised the listening young men and women never to be satisfied until they had
found the niche for which Pound the niche for which they were best
fitted. "You must like what you are doing," he said, "tor you will be more or less a failure in it. Try to more
no mistake in regard no mistake in regard to what your lifeto make a mistake retrieve it. It is is
no disgrace to turn from to another; the disgrace exists, onather in thing maining in any position which one can
not fill adequately, happily, and
thusiastically, his own experience, . "Thustrating fro paying experience, "Me said, "This country is enjoying my
self all the time:" self all the time:"-and those of us who
had been taken by him on enthusiastic
botan botanical trips, to Rocklifire, to Chelsea,
and elscwhere, knew how truly he spoke. The majority of the pemple are born It is the part of wisdom to search un-
til that fitness is found. "But," says someone, very probably a
tired mother-"My day of choosing is Instead of de-
velmping it it a tarricht. Now there is no
timm." Whomphot thare is a have regret in the


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ontario

## allong after

## 位

JUNE 4, 1914
RE PICTURESA-QUANTITIES FOR Dear Junia,-will you
Dear Junia,-Will you please inform nice for a living-room and dining-room? I hava one family group, where ${ }^{\text {would }}$ wour
it . Also pictures of Christ you put it ? Also pictures of Christ
and the Madonna, and landscapes. $\mathrm{In}^{2}$ and parlons I I have all oil and watercolors in scenery but one, and that is
a print of the chariot race. print of the chariot race
some person asking for quantities for a some person asking for quantities for a
wedding next year. Here is a list I saved from my last party.
For a party of 65 persons : -8 loaves For a party 2 breater, 5 bottles olives, 4 packages gelatine for jelly, 8 chickens,
ind a ham, 8 lbs. beef, 3 Ibs. fancy cakes, 1 batch kisses, 2 loal chocolate cakes, 2 loaf white cakes, 4 layer cakes,
freezers ice cream, 5 tos. candies, nuts.
That is plenty; so as to have a little That is planty, so as to have a little
left, and as we have made a great many parties you can depend on it for Neing plenty.
Nortolk Co., Ont. MABEL Norrolk Co., Ont.
Put your best-loved and most helpful pictures in the room or rooms where you will see them most. The choice must depend upon your own taste.
is usually better not to hang oil pain is uevally better not to hang oil paintas the former are likely to kill the effect
of the latter. of the latter
lawn social
Dear Junia,--Please publish in your
paper as soon as possible amusements suitable for entertaining a crowd at a private lawn social, and alse what would e suitable for refreshments. Thanking you in advance.
Huron Co., Ont. PRIMROSE. Is the lawn social to be a small affair made up of invited guests? If so, when sending out the invitations request
the guests to come dressed to represent some character. Guessing the charac-
ters, will, you see, provide part of the entertainment. see, provide part of the porches hung with Japanese lanterns, in profusion, arrange for good music, and
 dressed as a gipey, will make merri-
The supper may consist of sundwiches, cake of various kinds, fruit salad
ice-cream, lemonade and hot coffee. QUERIES
Kindly inform me in your most useful magazine how to clean a Panama hat?
Also to remove pine gum or pitch Also to remove pine gum or por for from our Cristmas tree on a Royal Wiltion velvet rug ?
Kindly reproduce the article on how to
make perfume from flowers, as our paper make perfume from flowers, as our paper
has been mislaid? I take deep interest in Dora Farn-
comb's Hope's Quiet Hour; also enjoy Junia's articles, and Helen's Diary. I
have also travelled through Germany, have also travelled through Germany,
and know that she is certainly enjoying her trip. I wish your paper every success. We could not do without it. My
husband got five new subscribers so far husband got five new subscribers so
this year.
Wentworth Co., Ont. MRS. J. T. C. It might, be safer for you to send th
Panama Panama hat to a professional cleaner.
However, if you wish to try the operaHowever, if you wish to try the opera-
tion yourself here are two methods.
The first is given by Scientific American. The first is given by Scientific American.

1. Scrub the hat well with Castile or 1. Scrub the hat well with Castile or
Ivory soap and warm water, using a
a Ivory soap and warm water, using a
nail brusi to get the dirt away. A
little ammonia may be added to the little ammonia may be added adding a
wash water.
Winse twice, adding
little
alycerine Water to prevent the hat from becoming
stiff and brittle. Place in the hot sun stiff and brittle. Place in the hot sun
to dry. If the hat needs bleaching,
while slightly damp expose it to the While slightly damp expose it to the
fumes of burning sulphur in a closed
vecsel yumes of Us the hat goes out of shape it
vessel. Ie the hat
will need blocking. will need blocking. the druggists the
2. Have made at tat
following solutions:. (a) sodium hyposulPollowing solutions: - (a) sodium ${ }^{\text {hyposus }}$
phate, 10 parts; glycerine, 5 parts;
alcohol, 10 parts; water, 75 parts. (b)
 water. 90 parts.
Spionge the hat over with the first
firs solution and leave in a cellar or other
dampp place for 24 hours, then apply the damp, place for 24 hours, then apply the
second preparation similarly. Finally stiffen with parchment size, which con-
sists of gutta percha dissolved in ether. applying it over the hat with a soin
brush, and allowing it to dry while in
perfect. shape. Hata thus bleached do

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we recommend it to you as an exoeptional value at the cut prioe wo name.

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adjustment of distance between the wheels from 42 inches to 57 Inches. This adjustment is made by loosening two set-screws. The balance lever enabiles you to adjust the cultivator to sult your welghe seat can be set at any height, and oan be thrown forward. The arch can be adjustod to sult holgh


Illustration shows the cultivator in all detalls exoept one ohange, and that is we have equipped it with an improvell painted and finished, and a real money-saving value. We ship promptly from Toronto. 2100
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When writing advts. please mention The Advocate.
not turn yellow as soon as thone bleached, with sulphur.
I have telephoned a druggist in regard to the gum stain. He says to soak it with turpentine to remove the gum, and then apply gealine to remove the tur So far we have been unable to locate the article on perfume from flowers. Would you be kind enough to send ue
the date of the issue in which it appeared.
Dear Junia,-Could you give me a re Dear Junia,-Could you give me a re-
cipe for making a dark grey switch
white. Will close with a receipt for coronation cake.
2 eggs, 1 cup of brown sugar, 1 cup
butter of butter, \& cup of milk, 1 cup of
chopped raisins,
$1 \frac{1}{3}$ cups of flour,



Ayrshire Club Meeting Mount Elidin, Oxford County, Ontario Prof. H. Barton SPreseser of
at Macronald Collere. Que




 JOHNMCKEFL Norwich. President,



JUNE 4, 1914


News of the Week
 The Windrow

 noe uto

 hours each the compmexty, band mant mays have $a$ bead ot mair ot tho to oun

 Wortan mine man changed not to mato




 ied in Italy, and subsequently sang in most of the cities of Europe taking especially well the parts of "Isolde" in
"Tristan and
Isolde"": "Leonora" in $\begin{array}{cc}\text { "Tristan and Isolde": "Leonora", in } \\ \text { in } \\ \text { "Il Trevatore" ; } & \text { "Marguerite" } \\ \text { in }\end{array}$ "II Trevatore"; ", "Marguerite"
"Faust"; "Kundry", in
"Parsifal", and other notable roles. She died in Batavia, Java, on May 10th, of pneu-
monia, induced by a nervous breakdown monia, induced by a nervous breakdown
due to an accident to the steamship
Tasman on which she

and

bot in meta s way thei topy vill oci as phomiographic records when used with an appropriate reproductive device. Th
real ten-dollar bill will then speak it own name, whereas the counterfeit bill although, exactly similar in appearance, will either remain dumb or emit only
unintelligible sounds.

The Independent tells of a number o Tonderful flowers brought to America by a quiet American plant-hunter, Mr. E
H. Wilson, who returned not long ago Mongolian hinterland, accompanied onl by a band of coolies. Mr. Wilson is described as "the most audacious, the
most persistent and the most successful plant-hunter the world has ever known. He has discovered and brought back n
fewer than 2,000 new plants, many rewer than 2,000 new plants, man
through experiences of great danger. T $52=5$

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ho wrote on subjects that to not atcract
the general public, but those who have the geteral publice but those who have
studied the colecteded essays of F. W. H.
Wyars Myers, a poet tho wrote so little that
he is almost forgoten, except by those who read him when he and they were
under thirty will probably agree with under thirty, will probably agree werth
the view that no richer and more melodthe view that no richer and more molot
ous prose has been produced in our time.
The The supreme merit of Goldwin Smith's
writing is the union of clearness, strength and brevity. Its weakness lies not in
the diction, for that is hardly to be the diction, for that is hardly to be
surpassed, but in the fact that in his surpassed, but in the fact that in his
articles or books the argument does not $\underset{\substack{\text { Surely } \\ \text { march. } \\ \text { no }}}{ }$ one in our time has possessed an equal girt for terseness.-Lord Bryce, in the Ap
American Review

The Ivory Snuff Box.
By Arnold Fredericks. .(Copyrighted.) Chapter XIX.
grace's identity becomes kNown
It was not untii early in the afternoon
that Grace was able to that Grace was abre to accomplish any-
thing toward carrying out the instruc tions which young Lablanche had given
her with respect to the phonograph. On her with respect to the phonograph. On
her return to Dr. Hartmann's from her expedition to Brussels, she went at once exp her room and locked the record
to which Lablanche had given her in her trunk. Thers was nothing
now until efter luncheon.
When the meal was over she ashled one of the attendants, who semem to be a
sort of housekeeper or head nurse, if sort of howsekeeper or head nurse, if
there would be any objection to her there would be any objection to her
taking the phonograph, which wa
a small and rather cheap affair, to her
soom. She wished to amuse herselt? soom. She wished to amuse herself.
rome explained, playing over some of the
she she expla
records.
The woman regarded her curiously for
a mament, but as there seemed nothing a moment,
out of the way in the request she as sented, with the caution, however, that
she should not use the instrument exshe should not use
cept during the day.
Cept during the day.
(S.orme of our patients are very nerv-
ous," she explained. "It might annoy
out ous," she explained. "It might annoy
them if they were sleeping. of course if there are any complaints you will not continue."
the instrument to the nurses to carry ${ }^{\text {ed }}$ several records frome those which she Yound in a cabinet, on which it
stoo. There were several
American records among then. several American
She tok all ot
these and some others. selected at ranthese and some others selected at ran-
dom. dom. ide not play ""The Rosary", at
she did once, but mode use of one of the other
records. The horn of the instrument records. The horn of the instrument
she directed toward the open window. When, she had finished the first air, and
adjusted her own record upon the plate adjusted her own record upon the plate
of the machine, she relt afraid that it might at once be recognized as strange
and new, but apparently no ane paid and new, but apparently no one paid
any attention to it. Sle continued her playing as long as she dared without running the risk of
attracting undue attention.
when at
at atracting undue attention. When at
last stle stomped she fett ns thoug she
nover twanted never wanted to hear the strains of
"The Mosary" again
Atter dinner she determined to disreEard the suggestion or the housekeeper
Io condine her playing th the daytime
anul
anoving the machine somewhat ann moving the machine somewhat
nearer the window, played the song
over three times in may over three times in rapid succession.
she had just begun to rewind the
 II. was scowling fierely, and took no
trains
to
conceal the fact that he was Men was scowling fiercely, and took no
vains ti" conceal the fact that he was
anme.



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 Early Imp'vd Leaming. $\$ 1.60$ \$1.50 | Early White Cap Y.D. | 1.60 | $\$ 1.50$ |
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is quatto out of the question. Good even-
ing." In a moment he had gone. Grace sat down and burst into tears. phonograph which taking away of the polt that if anything could be accom-dono-but the hopelessmess of the whole situation.
Nearly eightean, hours had elapsed
since she had stolen, halt fhid Ince she had stalen, hall fainting, from
he sight of Rrichard's
white agonized face. Even Lablanche's assurances that Hartmann would do her hussand no serious injury failed to comfort
her. The whole affair of the phont graph seemed trivial and useless. What message could the words of this so
sive him-what in sive him-what, in fact, could the
mean to any one, except a message mean to any o
hopeless love?
When the hour for going to bed had Come she threw herself without undress ing on the bed and lay sleeploss in the
darkened room. darkened room. The vision of Richard his face within the circcle of light, torured her incessantly.
It seemed somehow so wrong, so
cowardy of her, to lie here in to Cowardly of her, to lie here in comfort at least, was rolated to her forever, and in love was more dear to her than her own soul. She could not sleap, and
prosently rose and sat at the window,
 hungrily out at the 1 litle suare brick
building where she knew Richard lay building where she knew Richard lay
confined. The hours of the night dragged along in laden feet. Once she heard the clos
ing of a door, and the sound of footsteps echoing faintly upon the cement
floor of the lower corridor. Within the floor of the lower corridior.
laboratory
Wilt inin the
theemed dark.
Evidently Iavoratory all semed dark.
the toctor was not there.
thenen shenty
Theard through ber heard, through her hall-opened door,
noises of persons walking in the lower hallway of the main building, and after concluded that Hartmann had gone into his office.
The woman on duty in the hall sat in her chair reading and yawning. After her bell, and the woman after consult ing the indicator, began to descend the stairs with a surprissd look upon her
facs. It seemed like a providantial op-
It portunity. She slipped quietly through the doorway and sped as swiftly as she She reachod the door opening into the orridor without hearing or seeing anythrough it unseen. As she closed it hehind her she fancied she heard some one walking quickly along the corridor
beneath The passageway in which she stad was in reality nothing but a covered
bidge, a fow feet wide, built for the Cridge, a few feet wide, built for the
sole purpose of providing a means of passing to the laboratory from the secat a similar passageway connected the She realized that any one in the idor beneath her could readily hear her
 Hoor, waiting until they should have passed. In a few moments the sounds
below ceased and silence again reigned.
powit With great timidity and caution she
egan to walk toward the laboratory In the center the laboratory
 ny one should be within the darkened $\begin{array}{ll}\text { aboratory they could readily } & \begin{array}{l}\text { darkened } \\ \text { see her }\end{array} \\ \text { asproaching, and therefore } \\ \text { assumed }\end{array}$ arson walking in her and beep. Niddle of the corridor and was nearing tenly she heard a faint click, and ald-
tene laboratory door, when sur IIst at once the laboratory was
rilliantly illuminated.
l. Ti. thê light which suddenly flashed
$\qquad$
$\qquad$
$\qquad$

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must be four: must be four:
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## 든 RMSP



WOMANS SOAP


THE FARMER'S ADVOCATE.

## chief from her eyes.

The man Mayer had been
her in The man Mayer had been regarding
her in silence throughout thy whole
sceme. Suddenly he stepped forward and scene. Suddenly he stepped forward and
snatched the handkerchief from her
hand snatched the handkerchied from her
hand. His quick eyes had dotected a
monogram in monogram in one corner of the bit of
cambric, and with an air of triumph he held it beneath the light, examining it
closely. closely.
Hartm
Hartmann came to him,
"What is it, Mayer ?" he asked eager-
His asoistant extended the bandker-
chief to him. Grace realized with a chief to him. Grace realized with a
sinking, heart that it was one of the sinking, heart that it was one of the
several she had hersell embroidered during the weeks preceeding her marriage. With what pride, she reflected, she had
worked over the G and D , lovingly inworked over the $G$ and $D$, lovingly in-
tertwined in one corner. "His wife ", she heard Hartmann cry
with a harsh laugh. "That explains with a harsh laugh. "That explains
everything. That was why he did not leave Brussele at once; he was watting
for her-he would not go without her." for her-he would not go without her."'
He turned to Grace with a new expression on his face.
"So you are his wife, eh ? Viry well.
Now we shallell so whether or not you
will will tell me what I want to khow.
Your husbeand is confined in the below us. This-", he indicated the
small black box with small black box with wires atcatced the
a device which I have constructed
a producing certain light rays-light ror producing certain light rays-light rays
which have a marvelous power, both for curing and producing dieease. Look-
'the held his "he held his powerful hand before her
eyes; "this is whet they did to me beeyes; this is what they did to me be-,
fore I discovered how to control them.", She saw, stretching across the back of
his haind and wrist a broad red petch his hand and wriat a broad red patch,
like the scar remaining after a burn. "Now come here.".
He seized her by the wrist and He seized her by the wrist and
dragged her toward the apparatus at dragged her toward the
the center of the room. the center of the roo
"Look-in there."
He indicated a ahort brass tube resembling the eyepiece of a microscope,
which rose from the center of the box. which rose from the center of the box.
"Loook."
Grace bent over and aplied her eye to Grace bent over and applied her eye to
the brase tube, then ahrank back with an exclamation of horror.
"Richard !" she screamed, than turned on Hartmann with the fung of a tigress. "Let him go-let him go-I pay, or I
will-" She reinlized her helplessn3sss, will-"' She reialized her helplessnssss,
the futility of her threats, the futility of her threats, and fell in-
to the chair in a paroxysm of sobbing. to the chair in a parouysm of sobbing.
Through the brass tube, and the
powerful lens which powerful lens which focused the light rays upon ths space below, she had seen
Richard's face, white and dawn, within a disk of blinding light, and apparently
so near to her that she could have so near to her that she could have
reached out and touched it. In her reached out and touched it. In her
momentary glance she noted his redden-
ed momentary glance she noted his redden-
ed eyes, the tears which coursed from
beneath their lids, the agony which disbeneath their lids, the agony which dis-
torted his countenance. cried Hartmann triumphantly.
Stied Hartmann triumphantly. Her heart
Still made no reply.
was breaking her sufaring was breaking, her suffaring at the know-
liedge of his suffering made her faint liedge of his suffering made her faint
and weak, but even now she could not and weak, but even now she could not
bring hersel? to break the trust which M. Lefevre had placed ine her. She sat
huddled up in the chair, shaking from huddled up in the chair, shaking from
head to foot with sobs. head to foot with sobs.
Hartmann saw that her r as yet unbroken. ""Take her arm, Mayer," he called out, as he seized her by one wrist. "Come
along now. We'll see if a closer view will have any effect."
He snatched up a broad leathar strap. He snatched up a broad laather strap
from a shelf along the wall, then, with
Von Mayeged her to the fron stairway in the
dragge corner. In a few moments they had
paused before the door of the paused before the door of the room
where the detective lay confined. Hartwhere the detective lay confined. Hart-
mann threw it open and pushed Grace inside, while he and Mayer followed, closing the door behind them. For a moment Grace was daazled by
the brightness of the light cone, and the the brightness of remainder of the room. Then seeing Richard lying halplose on
the floor bsfore her, she threw herself the floor bsfore her, she throw herself
to her knees, put her arms about his to her knees, put her arms about his
neck, and covered his flace with kisses.
"My darling, my poor boy," she cried. "My darling, my poor boy," she cried
as she bent over him, her shoulders shutting off from his face the blinding
rays of the light. "What have they rays of the light.
done to you ?,'
(To be continued.)

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cut worms that eat off cabbage plants.
Ans.-When cut worms are in the soil there is only one thing to do and that is to poison them. When young plants
are set out it is wise to put a little are set out it is wise to put a
poisoned bran around them. The worms are attracted to this, especially if it is sweetened with a little molasses; or sugar or even a little salt will entice them to it. One pound of Paris green to one
hundred pounds of dampened bran or in smaller proportions one ounce of Paris green to six pounds of bran makes the
mixture. Put the bran in a large pan or vixcure. Pampen slightly with water con-
vessel, daing a little sugar or salt, stir and mix
tain taining a little sugar or salt, stir and mix
thoroughly until the bran seems to be thoroughly until the bran seems to be
almost dry to the touch then sift over it the requisite amount of Paris green and stir thoroughly. This mixture
should be sprinkled around the young should be sprinkled around the young
plants and the worms will come up durplants and the worms will come up
ing the $n i g h t$ and feed upon it much to ing the night and
their own detriment.
Warts-Silo Queries.

1. 1 have a two-year-old colt with
warts on its lips and nostrils. Pleas tell me a cure.
2. Which is the better, a silo 14 ft .
by 24 ft ., or one 12 ft . by 30 ft . by 24 ft, or one 12 ft . by 30 ft .
3 . Which is the better way, to have
2 by 6 inch lumber planed and tong led 2 by 6 inch lumber planed and tong ied
and grooved, or just rough from the
sawmill? sawmill?
3. Will the acid out of the corn rot the grove off the lumber and cause it to
deccay?
W. L. Ans.-1. If the warts are suspended by
a small string of flesh it would be wise a small string of flesh it would be wise
to sever it and touch the sore parts with a leather moistened with butter of antimony. If they are flat and have a broad
base, they should be dressed daily wiuh butter of antimory until they disappear.
The corroded surface should be picked off occasionally before applying, the fresh dressing. It is claimed by some that
the daily application of castor oil will the daily application of castor oil will
cause them to disappear, but the use of some caustio a more cerstain reledy. to procure a silver nitrate pencil from the druggist and touch the warts with it.
The pencil must be handled carefully and The pencil must be handled carefully and
it would be wise to follow instructions procure the pencil. Either the latter treatment or that of using the butter of
antimony will rid the horse of them in due time.
4. The silo 12 feet by 30 feet is ad-
visuble. In this case you will have a much greater weight which insures better
silage and for a moderate amount of silage and for a moderate amount of
stock the depth which you lower it every
day will insure you fresher material each time. It is better to have the lumber
3 . dressed, but it is not absolutely neces
sary to have it tongued and grooved.
If you wish to make the joints more permanent you might bore small holes in the sides of each and insert a small
pin about two inches long. This is often
done and when the silo is intact it will stand considerable drying out before it will fall. The acid out of the corn is
not likely to decay the lumber to any appreciable extent, at first, but you
might be able to prolong its life by coat ing the inside of the silo with crude oi
or applications of warm creosote. It is or applications of warm creosote. It is
wise not to do this until after the
$\qquad$
Baker-So your uncle has died Butcher-Yes, died yesterday.
Baker-He was a very eccentric ol
man, wasn't he? man, wasn't he? Do you think he wa
quite right in the head?


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Questions and Answers. Miscellaneous
Diarrhoea in Pigs.
I weaned pige at five weeks old. ted them on fresh milk, and lost a number of them from diarrhoea. Kindly advise what would be proper treatment.
vanted by proper foeding of the sow.
Had their
dam been allowed the Hed their dam been allowed to rum out of doors and have plenty of aerercine and access to the ground, theo might have
been a little etronger constitutionally. been a little etronger consentitutionail.
However, when these conditions arooe it Howeve have been wise to administer
would about ten to afteen drope of turpantine
daily with some new milk. Another daily with some new milk. Another
treatment would be to give tham a
 to one teaspoontul and follow this with
one teasponful of tincure of gentian one tasponitul of tincure times a day.
and ginger combined tindings and milk A good grade of midaings tand druss
with the daninistration of these drugs
would probabiy have restored them to

Ans.-One correspondent writes that he
has one cureall for diseases in pigs,
and that is simply a mixture of new
milk and turpentine.
This trouble, in our case is is likely due to indigestion,
and possibly it could have been pre-

Worm Seed Muetard. Would you kindly toll through your valuable paper the name of the enclosed plant and if it is a very bad weed.
woedo. Novertholoses, a largo quantity of to tood mixed with gruin maken it ob-
jectionable an foed for fome kinind of livo atock and although it is not one of the worst it ahould be kept down.
$\qquad$
$\qquad$ wormseed mustard. It is rather persistent when it once gets established in the as the it is in no wise as formidable crops including mustard. A rotation or cate this weed thoroughly. It is quit common in the fields and is never looked upon as being one of the so-called bad vaseline

Sore Teats. Outside of cow's front teats is reci, as If sun-burnt, and so sore I can hardly milk her. She has been this way for a week. Can anything be done to relieve the soreness, and what would cause this? Ans.-Dress three times daily with ntment made of 4 drams boracic acid, aseline. carbolic acid and 2 ounces vaseline.

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Questions and Answers. Veterinary.

Cow with Cough Cow began to cough in the early win ler. I had my veterinarian test her with tuberculin, and she did not react. Ho said the cough would probably dis appear when she got on grass, but she Still coughs. She is a good feeder. and in fine condition. W. B. Ans.-The fact that the cow is feeding
and looking well is proof that the and looking well is proof that the
rough is not interfering with her conrough is not interfering with her con
stitutionally. It is possible she has stitutionally. It is possible she has
chronic aronchitis, or cor there may be
polspus in the nasal chambers that can
 cannot theve been locateo. A onain, she
nature, in this
nespes,
nence fair opportunity respect, has not had
the tuberculin toest is cure. While
telo the tuberculin test is denfere in
large percentage of cases it is is not in large percentage of cases it it in not in
fallible. Although she tailed to react she still may be tubercular. From some unrecognizable reason the tuberculin
may not have been potent, or bein
mot
 less than four monther after the for
test. and if she again fails to react
res. would not worry again fails to react
thousfla it should continue. Wough eve think that should continue. We do not
the administration of drugs
dios any then does any good in a case of cough wit
constitutional disturbance. Sprain During Parturition
 atterwards atront poal and fiumediately
 her to rise. atter which hat wasbsed
and I had to ateady her for a time to
anean Keep her troo standy her My a time to
could not locate the trouble,
 improving; she can Ctse Sh is gradually
without much
roulle.
but shutie, but sometimes whent much
she places one hind toot in tront
hiling other and one hind foot in fron waiking
then mat the goes all right tor of the
 Ans, -She sprained some of the muscle





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## Questions and Answers

 MiscellanenusTazation.

1. Is it legal for a Township, whicl thas done away with Statute Labor, to
charge taxes for road improvement when there is not a road anywhere near
the property? the property?
2. Can a Township legally add 10 per
cent. to arrears of taxes') cent. to arrears of taxes? If not what
is the extreme limit? is the extreme limit? SUBSCRIBER.
ONTARIO. $\underset{\text { Ans. }-1 \text {. Yes. }}{\text { No }}$

Troublesome Pets.
Can I kill tame pets, or birds, such as
pigeons or doves, if they are on mater pigeons or doves, if they are on my ing such, after notifying by registered
mail to take care of same, also other fowls? What can a man do to me for killing these birds any way here in the Province of Quebec?
QUEBEC.
Ans.-This is a matter that depend very largely upon local and municipal taws and regulations, and we must, ac-
cordingly, recommend you to consult a local lawyer personally. A tew things more I would like to know about the Simcoe Co. Silos it
Mr. Galbraith will answer through the Advocate.

1. Will the lumber do cut all widths I mean different widths in same silo2. How is scafolding done
2. How is scaffolding done
3. How high is tirst
4. Is first one left until all is done,
and so on to the top?
5. What material is used for rool and
what shape is it put on?
6. What size of door is left and how
is it put in?
7. Do you have to scaffold for roof? 8. How many hinges on each dor?
8. Does foundation need reinforcing, 9. Does foundation need
nad how?
9. When a set of hoops are raised how are they kept perpendicular? 11. Would it be strong enough to
start sheeting with hoops tacked to four pieces?
10. Do you use the same length of nails for inner sheeting as for outer? of green stuff, is that all right? 14. How many nails would you drive on each board, say a foot wide, into the
hoop, and what length?
We have don't know much about them, and any information is welcome. R. J. M.
Ans.-1. Lumber may be used all widths Ans. -1 . Lumber may be used all width
so long as joints are broken carefully The width usable will depend somewhat on the diameter of the silo-for instance
while fifteen-inch stuff might be safely While fifteen-inch stuff might be safely
used on a fitteen toot silo, lumber over
half considerably in in applying it to one of eight or nine feet.
erected in the form of a square, on the loundation inside of the line where silo
will stand. These poles are held together by braces and cross-pieces, usually o
inch lumber placed at convenient inter vals on which boards are placed to
stand on while working. Poles are pulled on while the top of sing. Poles are
11. Usually octaronal finished 5. Usually octagonal, wooden
and
sheame,
shathing
covered $\underset{\text { with }}{\text { metal }}$ shingles. Gothic being constructed for
pipe. 6. Eighteen inches is a good width.
Doors are made of doubte-inch nailed to baturns. Battens of course to be on the
bats.ide. I. An outside scaffold is better for
roof building. 8. No hinges are used, doors being put
in as the silo fills. The pressure of the in as the silo fills. The pressure of
conr. holds them.
12. in thiderground stone or cement work. pier w... which are plumbe
riguly to the scaffold. 13. Three-inch for both courses is inch wid.w. Three or tour, as may soent neres.
sary in make it tight.

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Linimet for thrush.
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horseman speaks volumes for
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Questions and Answers. Miscellaneous.
Paints-Rancid Butter

1. I have a house which was built six
years ago. it is frame, and has re Jen years ago. It is frame, and has r.e se.
been paint d . Is there any satisfact.ry
filler which. In been painted. Is there any satisfact,ny
filler which I can use on it oo that it
will not take in so much paint, te will not take in so much paint, the sid-
ing being sap pine, ing being sap pine?
2. How can rancid butter te m:de
sweet enough for cooking purposes? 3. Our kitchen floor s of hard marle
and the paint and the paint simply wili not stay on
it any length of time. Is there any wa it any length of time. Is there any way
the paint could be applied so it willistay
better the paint could be applied so it willistay
better, and is there any home mixture which would be likely to stay better than
the prepared? the prepared?
Ans.-1. The ordinary practice under such conditions is to use a priming coat
made made of six gallons of raw oil to one
hundred pounds of lead. The and third coating are usually made with four gallons of oil to one-hundred
pounds of pounds of lead. When painting porous
brick-work a "sizing" made brick-work a "sizing" made of about on
pound of glue pound of glue to twelve quarts of water
is first applied. This prevents the absorption of so much paint.
3. It has been run over and some
times mixed with good butter, but this is only spoiling a quantity of good but ter to make a larger quantity of a poor
grade. For comer grade. For comn
prohibited by law
4. Hardwood floors are usually varn
ished and stained. The ished and stained. The ordinary natura
varnish is used. We do not know o any paint that would be applicable to this condition.

Material for Silo-Lump Jaw. 1. Will you please tell us through your
paper what quantity of gravel and cement will be required for foundation
of silo 5 ft . high and 12 ft 2. We bought a bull last April 13th.
2. he is registered, and is 18 months old.
The owner of this bull had him entered
at a pureb at owner of this bull had him entered
at a pure-bred sale,
but did not send him
us harch us he was too thin. him, as he told
boughine we have bought him we have found out the reaso
why he wasn't at the sale, because he
had lump why he wasn't at the sale, because he
had lump jaw. Should he have sold
him to us, knowing we did him to us, knowing we did not know
much about bulls? reason as being too thin at time of sale
but but when we got him he was in nic order. The lump is not noticeable, but 3. Can we come on him for rebate, as
he sold the bull under he sold the bull under false pretences.
4. Will the lump get bigger, if so what had we better dot bigger, if so
way of preventing it. 5. Will his stock inherit same com
NEW SUBSCRIBER.
plaint. Ans.-1. The dimensionso upon whic we have based our calculations are for
a footing or foundation in the earth
a

"nt breeder he will make it right and
c. would advise you to negotiate with


FARMS FOR SALE




Questions and Answers. Miscellaneous.
Feeding chop-Rhubarb. 1. Wiould you advise feeding oat chop
to milch oows fuer they are turned out ${ }^{2}$ 2. Would you kindly tell me how to Erow rhubarb successtuly?
Ans - - . Ans. -1 . Under some conditions, yes, in
smanl quantity
abundant and the core
grass is
is

.
 box around the hills with a glass over
the top to fore in ppring. Dig around
the roots each year the roots each year.
Cockerel Alling.
 ocassionally turn his head straight
back until the comb almost rests on his back, halding it there tor sosts on his
occasionally shaking his heand thene will occasionally shaking his hean, then walk
of again as if well, looks bright and hardy. One cockerel died several weeks
ago somewhat similar having his when


 shown any such symptoms. hens have
Ans.-We are not prepared to state just what is wrong with the biris. Give Give
them free range and if this second biri should not recover, make a post mortem
examination and see it examination and see it he is not crop
bound or whether there is not some internal disease.

Disease in Pullets.
We have lost about 30 pullets $\begin{gathered}\text { since } \\ \text { last fall. } \\ \text { When first taken sick } \\ \text { they }\end{gathered}$ have black diarrhoea. They eat prett
well, but becoming worse they do not seem to see the food and walk anout
in an aimess way when it is put before in an aimless way when it is put before
them and the droppings change to them and the droppings change e so sulprore
color and finally they lose the use of

 diarrhoea. They are never shut, up, but
have free range on the farm, feed has been mixed oats, barley and wheat with
some corn and sometime some corn and sometimess mash with an
occasional dose of salts in mash. They occassonal dose of salts in mash. They
have had gravel before them all the time have mad mast of the time. They creep
and mat from others to die.
awhy away from others to die. A. J. C.
Ans.-It is diffifult to diagnose, but we would suggest that you perrorm a post
morteme examination and if you find enmortem examination and if you find en-
larged white spots on the liver you may larged white spots on the liver you may
conclude that it is tubeculosis.
for you
find nothing to indicate the disease find nothing to indicate the disease
send at specimen to the Bacteriosiogical
Department 0 . 0 .
 on new soil and give free range. Symp-
toms also indicate that the disase might toms also in
be cholera.

## Gossip.


 est being 81,700 , for the threeyear-old
bull
imported Sailor Boy.
The
four-year-101d imported cow raymond's Doisy
of Frie Baton sold for $\$ 1,250$, and five other cows at prices ranging from $\$ 5500$
to $\$ 875$ each, and the lowest $\$ 18$. To secure uniformity in appearance of




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tary and is cheaper than lath and plaster.

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[^0]THE FARMER'S ADVOÇATE.
FOUNDED 1866


Doplar Shorthorns $\begin{aligned} & \text { We have the best lot of young bulls for } \\ & \text { sale this spring we have ever bred. reds } \\ & \text { and }\end{aligned}$ and roans, 10 to 18 months of age, But--
SHORTHORNS


THE FARMER'S ADVOCATE.

JUNE 4, 1914


SHORTHORNS

|  | interfere with thriftiness. In some such |
| :---: | :---: |
| One yearling Clyde stallion, one weanling | cases the molar teeth require dressing |
| Clyde stallion, big, best quality and | ${ }_{\text {coen }}^{\substack{\text { even } \\ \text { then }}}$ |
| Joul clincy Cargill ontario |  |
| CHOICEBUL |  |
| Have two excellent buil calves left, which are 9 and 10 months old. They are both heen, low set caves, besides beeng good Also a number of heifers, all ages. <br> WM. SMITH, Columbus, Ont. | Veterina <br> Scrotal Her |
| Shorthorns, Cotswolds, Berkshires | few days ago he jumped into the and afterwards I noticed that tum was enlarged on one side. |
|  |  |
|  | have put on a support. |
| $\qquad$ |  |
|  | cr, and the colt |
|  | constipated. ©. II. 1.. II. |
| StewART M. | Ans--In the majority of casmes naturd |
| Oakland-52 Shorthorns |  |
|  |  |
|  |  |
|  |  |
| maple lodge stock ferm |  |
|  |  |
|  |  |
|  |  |
| R. R. No. 1. Clandebose. ${ }^{\text {a }}$ |  |
| uce Lodge ${ }_{\text {Prer }}^{\text {Shoent }}$ |  |
|  |  |
|  |  |
|  |  |

Questions and Answers. Miscellaneous.
 mesenteries show raised whitish tubercules,
you can rest assured that the disease is tuberculosis. In the meantime, isolate affected birds and thoroughly clean up their roosting quarters.
Miscellaneous.
 well since recovering from a sickness
last fall. It will not eat powders in its last fañ. It will not eat powders in ith
tood and not eat enough food eve with out any powders in it.
2e. The upper incisors of this colt
ject beyond those in the lower jaw.
3. Last year our cows were intermitt-
ent in the supply of mik, sometimes milk ent in the supply or milk, sometimes milk-
ing well and probably
the next time giving gractically nothing as though they
had been milked.
This continued nearly all season.
Ans, -1. Mix equal parts powdered sul
phate of iron, gentian, ginger and nuix vomica and give it a heaped teaspontur in one-balt pint of cold water as a
drench three times daily.
Feed a little at a time and often and as appetite in
proves. increase the quantity gradually
until he reofires
 2. This is called over-shot or parrouk
mouthed and nothing arn be don for it
Unless very well marked it will not Unless very whit marked In some such
interere with hrittenes. In
cases the molar teeth require dressing

## Ideal Green Feed Silos

## Are built to give you many years of silo satisfaction

## only the best grade of canadian spruce, especially selected for our exclusive use, is employed in the construction of Ideal Green is employed Feed Silos. <br> all lember is thoroughly air-dried and after being finished is saturated with an especially prepared sealing solution, used exclusively by the Des Laval Dairy Supply Co., Limited, which prevents rot or decay, reduces the tendency of the staves to swell or shrink and prevents the acid in the ensilage from injuring the staves. his Sealing solution with which all our silo lumber is treated adds from two to three times to the life of our silos compared with other silos not so treated. <br> all our stave wood is of uniform size and age thus insuring an even swell and shrinkage throughout. <br> all ideal grefn feed silos are hooped with round iron hoops every thirty inches :part and the hoops at the bottom where the strain ugs, made after our own exclusive process, are used. These are much superior to cast iron by reason of their greater ability to resist the action of our Canadian frosts. <br> the materials and construction throughout of the Ideal Green Feed Silos are of the very best, and everyone contemplating the erection of a silo this year will find it to his <br>  <br> DE LAVAL DAIRY SUPPLY CO., Ltd. LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA MONTREAL PETERBORO WINIPEG VANCOUVER

Shorthorns and Clydesdales


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International Directors Increase Prize List. At a recent Directors' meeting of the
International Live Stock Exposition As'sociation the classification was gone over in detail and such liberal appropriations were voted for prizes to be offered in
connection with the 1914 Show, that connection with the $\begin{aligned} & \text { this event is certain to, prove even more } \\ & \text { popular }\end{aligned}$ this event is certain ta, prove even more
popular with exhibitors and breeders than
any of its predicoessors any of its predecossors.
prizes are to be ofrered to breeders
putury prizes are to be offered to breeders of
Shorthorns in addition to the extensive classification they have had in the past,
while practically all the other cattl while practically all the other cattle
breeders' breeders alssociations report that they,
too, would extend their liberal offerings of former years. Owing to the fact that many feeders regard it as unprofitable,
and wasteful to fit carlots of three-yearand wasteful to fit carlots of three-year-
old steers for the shows, it was decided to drop these from the classification beginning with the 1915 Exposition. In
the Sheep Division, all the leading breedg the Sheep Division, all the Jeading breeds
were given the same liberal classification. were given the same litoral classincation.
The Oxford Association having voted a reasonable aspropriation for special
prizes, were also given a full classificaprizes, were also given a full classifica-
tion for animals of this breed. The Fxmoor Association having made, an appripriation, was given further recognition in the shape of a classification tor tiei,
breed. In compliance with several robreed. In compliance with several re-
quests, the Directors changed the word-
ing in the Breeding Division from "Four ing in the Breeding Division from "Four
Lambs of either sex, the get of one sire" to "Four Lambs, bred by exhibitor" and
in the Wether Classes from "Pen of five wether lambs" to "Pen of three wether lambs." As a result of numerous re-
quests urging that restrictions be placed quests urging that restrictions be placed
on the number of wethers any one exhibitor might enter in the Dressed Carcass Contest, it was decided, in order that the
smaller exhibitors might have an smaller exhibitors might have an "q-al
chance with others to limit the entries from any one exhibitor to four animals in any one class. The various breeds of swine were again given the same exten-
sive classification, both in the breeding sive classincation, Toth in the breeding
and fat divisions. The National Spotted-
Poland Record Association and the MuleFoot Hog Record Association had each requested recognition for their respective
breeds and were each given a classification. It was found that practically vall the Draft Horse Associations had in-
creased their appropriations for this creased their appropriations for this
Show and each breed was voted the same liberal prizes for the 1914 Exposition. For the purpose of stiniulating the
more more extended breeding of popular
market types of Draft Horses, it was decided to still further increase this classification. The Evening Horse Show Com-
mittee was given full power to arrange mittee was given full power to arrange
its classification for these most attract-
ive events ive events. It was announced that W.
S. MacWilliam, Manager of the Royal
s. Farms, Windsor, England, had succeeded Majesty, King George V., for the purpose of judging the steres at the 1914 ."I national". $\quad$ Gossip

## Gossip.

Glasgow, the first week in May were in ported by T. B. NacAuley, More Meal,
and F. Schrocder, Midnapore, Alberta.

The Penrith, Scotland Association of
Shorthon Sorthorn breeders held their annual
Sprine show and sate of ghead, May
1ith. comprising 51 females and 47 bulls Sth. comprising 51 females and 47 bulls
The hithust price reached was 76 guineas
for the searling bull cold Reef, shown by
Now Rowninoun, Shap, and purchased by


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Cobourg, Ont. CITY VIEW AYRSHIRES
 no posibility of doubt but that he will he rar. P. Jan "The Farmer, ta


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JUNE 4, 1914


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Nike to.
of both is also on the R.O.M. Photo on applicaof both is also on the R.O.M. Photo on applica-
tion Box $\$ 47 \mathrm{~m}^{2}$
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rising two. rising two

> R. M. Holtby Port Perry. R. R. 4

Manchester, G.T.R. Myrtle, C.P.R.
Maple Grove Holsteins




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Stations: Ayt, C.P.R.; Paris, G.T.R.

The Maple Holstein Herd

 R.R. No. 5 WALburn RIVERS | Ingersoll. |
| :---: |

|  |
| :---: |
|  |  |

Holstein Bull


THE FARMER'S ADVOCATE.
Questions and Answers.
Miscellaneous.

## We have a Septic Tank.

 and $3 \frac{1}{2}$ feet a dug well about 35 feet deepBy partiy filling ineter, near the house By partiy filling in and concreting, could
we use this as a septic tank for sewage
How deep should How deep should septic tank for sewage? left, and where
should the inlet and outlet drains be placed?
Ans.-The valve or ENQUIRER. of a septic tank should not be more more tha feet deep. nor less than two and a hal $12 \times 5 \times 5$
feet, $\quad$ outside
divided by
two foldwood is
dimensions three com two four-inch partitions into
compartments, with inside dimen
 x 4 ft .4 in . It is not necessary to make
it ifve feet deep. Only two and one
One hall feet is effective depth, as the re and
mainder of the wall mainder of the wall was built to bring
the top of the tank un to the top of the tank up to the ground
level. Three to three and one-half feot
would be deep enough You would deep enough on most farms.
well. Well, It is not big enough, and would
require filling up to the desired height The soil pipe from the house enters the first chamber near the top. The pipa leading to the second (two are all tha
is absolutely necessary) is nearly the same level as the inlet, and first chamber. The efluent fom of the ordinary drain tile and soaks away or may be discharged in tile leading to a
farm drain. A fresh-air pipe must arm drain. A fresh-air pipe must lead
to the drain for ventilation, and this drain flows
chamber two.
Water, Lighting and Power Queries Would like to hear from you on the
following questions on house fitting w following questions on, house fitting. We
are constructing new buildings and be
ind them ic hind them is a large hill and we would
ike to put a tank in it to supply the house and barn with water.

1. What size tank would be required cattle and 10 horses as well as to sup2. Would this tank have to be covere 3. I intend to have a soft water cis tern in the cellar. "Could I force the as to have the hot water at the cook tove and could the pipes be so arranged
hat if the soft water turn on the hard water from a cement
tank? Would like to have a waste pipe

2. Kindly give your ideas on electric
light for the farm. Could it be don with a strong battery charged with a the approximate cost of a plant large enough to drive a washer, churn and
electric iron? city or acetylene for lighting, and wha
Ans.-1. A tank 20 ft . long. 6 f. Mc. dee and 3 ft. wide will supply all. Any
atree dimensions multiplied together mak inree dimensions multiplied together mak-
ing 190 cubbic ft. will be all right. 2. With the quantity of water coming
in daily that would be necessary to supp-
in sixty head of s: ock there would no inl sinty head of slock there would no
ply such trouble with frezzing, even it
be much
$\qquad$
$\qquad$ ractorily in the way described and con
nections could be made to turn on the
hand water if the supply of seft beeame


LAKEVIEW HOLSTEINS


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FAIRVIEW FARMS

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 and Eminent Royal Fern, and out of prize-winning and officially record
dame David Duncan \& Son. R.R. No. Todmorden. Ontario



Alloway Lodge Stock Farm Aberdeen-Angus Cattle outhdown She
Collie Dogs

Four litters sired by Lmp. Holyrood Marauis are Expected shorty, ture or them rrom a morred \begin{tabular}{c}
$\substack{\text { but } \\
\text { pues } \\
\text { pear London. } \\
\text { ROBT. MeEWEN, } \\
\text { Byron, Ontario }}$ <br>
\hline

 Oxford Down Sheep 

Shor thorn Cat <br>
tle, Yo $k$ Gsire <br>
\hline
\end{tabular} Hot - Present offering: Lambs of either sex.

 Maple Grove YORKSHIRES- 200 head Are as good as the best, becaue they combine the







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June, laso youn
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Woodstock, Ontario, R. R. No. 8 Am offering a choice lot of Poland Chinas in-
cluding boars fit for service and souns sow for maye Al Shorthorns. Prices easy.
Essex County $\begin{gathered}\text { GEO. G. GOULD } \\ \text { Edgars Mills Ont. }\end{gathered}$
TAMWORTHS FOR SALE Two sows tweive months old; two sows nine
months old; three souss four months old;
ond DUNGAN Four montlis old. Write for prices
TAMWORTHS ${ }^{- \text {Somec cloice }}$ sows, bred foung


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Mac Campbell \& Son, Northwood. Ont


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LARGE ENGLISH BERKSHIRES Present imported stock Prices reasonable.
c. Jr. I.ANG. R.R. No. 1, Hampton. Ont.

Our English Live-Stock Notes.
Robert Whitworth, President of the English Hackney Society, held a sale of his own-bred ones on May Men, and
realized $£ 202913 \mathrm{~s}$. Od. for 38 head or, an average of £53 8s. 3d., which would go to show that there is still good money in the English type of Hackney, where it possesses a bit of substance along with quality. The stock were sired chiefy by Polonius and Beckingham Square, whose
progeny always stand high at the Lonpog show. Five stallions raalized 1338
don
do 3s. Od. and thirteen harness geldings
fetched $£ 1063$ 13s., which gives the fine average of $£ 8116 \mathrm{~s}$. 4 d At a similar sale held at Burg in
Lancashire, 275 guineas were paid by Robert Jay, a London lover of high-class Hackneys for Bingley Star, a noted showring performer. Here the general aver
age was $£ 63$ and a pair of greys went to the bid of A. G. Vanderbil's repre sentative for 175 gunneas. He also
bought a grey hack for 64 guineas. Continental buyers fell aver themselves to
tion secure bargains at those two Hackney
sales. They do know the right type when they see it.
The late William Foster's ponies will The late William Foster's ponies wil
have been sold under the hammer, ere
this news sees davlight on your side end doubtess some Hackney pony record will be established.
Shorthorns and South Devon cattle or
quality continue to pour out of the country to those countries and Colonies which will take them. South Arrica is is the latest place to suffer from the craze for choiceche flese breeds and P. \& G. Hughes, of Wrewe, Chastinc
and my old friend W. W. Chapman, of London, not speaking, of course, of the great frm of John Thornton \& Co., hav Shorthorns are mostly red in color. To Uruguay Hereford cattle are pouring out
in troops, and a rare good lot have the Hughes' sent to Monte Video. Milking Shorthorns at home are selling
well, even ordinary repository sales well, even ordinary recsery sales a
tracting
folk who will go to 50 and 60 guineas for dairy cows and 76 guineas for bulls bred on milking lines.
John Hay, Lachute, Quebec, has bough Irom Walter Aitkenhead, Polmont, Scot
Iand, the threevear-old Clydesdale stat lion, Warlingham, one up to great size and a good straight close-mover. James Wetherston, Puslinch, Ontario, has secured from Stephen Fleming, Raic
Bothwell, Bothwell, a yearling colt Royal standarar
by Gallant Stewart, and a promising younster. stewart, Mander, Alberta, has bought four Clydesdale colts, and T. B MacAuley, Montreal, seven mares. Moot
this contingent comes from the Monttomery Stud, at Netherhall and Banks. Kirkcudbright.
L.ondon. Eng. G. T. BURRows.

Angus McTavish was a Lowlander, rich,
and thoroushly Scotch. Ho had never and thoroulthly sotch the had never
seem the Ilifhlands. or the butiful lakes IIe paid an vith to America, and in New
York was shown all the simbts in How thought the T.anlands of scotland tar Angus something that would impress him,
 the romarked: Ahey are grand: Bund and y. bin the audd peacook in Dumfries that
 man: cive U.. "... sum so hone that hit An

## Lightning Protection

$\mathrm{W}^{\text {HAT are you doing in the way of porecting the big outlay of money your }}$ h we invested in farm buidings and ive tocki GGANST LGHTHNG?

 stonemasons' and carpenters' wage
The matter of lightning protection has been taken up by the Goverment
Agricultural College at Gulph, Ontario, allso by the the Mutual Fire Insurance
 and to see that the rods are propery, put on, as the erection of the rod is one of
the most essential parts. They advocate copper rods.
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so that pereet instalation of theodding can be depended upon. Write us. and
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J. A. CERSWELL, BEETON, R. R. No. 1
 fillies and mares that are bred to imp. stallions, all registered, prices right. L.-D. 'Phone
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