

Vol. XLIX.
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## de laval

## CREAM SEPARATORS

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hnow the nearest De Laval agent simply write the nemrest main office，as below．
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gives more warmth throughout －gives more warmth throughout less Coal and is far less trouble
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## whe Farmers Advocate Home Magazine

Vol. XLIX

## EDITORIAI

Har:ows and weeders save hoeing.
Break up the crust on the corn field.
Be on the job and see that it is made to pay.
System is profitable on the small as well as on the large farm.

Go after this farming proposition; it can be made worth while.

Norfolk County is a county of trees-fruit trees and forest trees

The man who keeps his eyes and his mind open generally succeeds.
"There is sorrow on the sea,"
ing prophet long centuries ago.
Once more with: fearful emphasis hath the world been taught to haste not upon an unknown, chanceful way.

Land in Western Ontario has been a veritable hot bed of late. With frequent showers and warm weather growth has been very rapid.

A good farm poorly tilled is often a losing proposition, but a poor farm well tilled and well managed is generally a money maker, and is not long a poor farm.

Alsiut the nearest approach to perpetual mo tion is the folly of spreading gravel on ungraded, undrained hili roads to wash back into r
contractors to haul on again next year.

For the right man specialized agriculture brings highest returns, but the average farmer is ater with mixed farming, making each branch

There may be nothing new under the sun, but there is a great deal roundabout us that is new to most of us, and it only requires observation
to reveal it. Cultivate the faculty of seeing sour own neighborhood.

Vearly fifty years ago an English journalist anticipated the coming of a day when work allumess. "The man who carts muck," he said,

LONDON, ONTARIO, JUNE 11, 1914.

## Systematized Agriculture.

 System or lack of it means much towards the ings, just operation or fallure of farm undertakther line of issue there is anman enccunt of a largewhere in this for methodical and economic regularity might well be held up as a model. True not many farms are as large, but many things which work successfully on the large farm may, in a modified form, be equally valuable on the smaller holding We were particularly favorably impressed with the care of the implements. It means no loss of time for the man or team to draw the drill, cultivator, disc, or any such implement to the implement shed when coming from work at noon provide work for a special machanic or handy man the principle could be carried out the teamster himself taking five or ten minutes to go over his implement, tighten nuts, and put things in running order for the next half-day in the field. And apart from the time saved and breakages avoided the implements and machinery are, when not in use, under cover and not exposed to the weathering agencies which soon place them in the discarded fence-corner heap. This is system in one departmer or to he satisfaction and profit of ail concerned
## A Farmer's Knapsack.

It is not a usual sight to see a farm laborer or the farmer himself going to the field with or without his team and carrying a leather knapsack on bis back-a sack which looks much like a school bag only, built of heavier leather and with stronger straps and handres, and yet this knapack is an importa where several these sacks are provided. This is another small item but it saves a time oh but you say "what does the sack contain." Just toolscommon small wrenches, pincers, wire, a few small bolts and necessary nuts, washers, etc., a screw-driver, cold chisel, a file, and like handy small tools, so often needed in the field, and so often lost in an improvised tool chest or among the litter generally found on a farm work bench. There is nothing to prevent the farme having such a sack or bag no matter how smad he farm. are necessary, but they will pay for themselve many times overs, nuts loosen, or screws drop mat the necossary tools to make repairs are right in the field, and the workman always is fault The tools are. If he doesn th his fault. The bag should be returned to the
barn each night with the team. Isn't this bairn each ni
worth a trial

## A Farm Smithy

A small forge on the farm is not always a few farms situated any considerable distance from Whacksmith shop can afford to be without it man possessmy a cery ordinary amount meciul little articles needed almost every day, and cua vituen save a drive to town which would 1 chrap wot of tools should go with the outfit. an thines ase essential parts of systen (1II) the farm, that ssem which should be carried

## The Onus is on the Man

Men living on the most fertile land in the and are often heard to find fauit with their pportunities and results. We were recently alking with a man on the train who remarked how well the country looked at this season when most likely the owners of the fine crops growing in the fikely the owners of the fine crops growing
in through which we were passing woưld have something to ".growl" about even though everything was so promising, and to back up his statement cited the case of a farmer upon whom he once called and who kad two hundred acres, the heaviest crop of wheat he had ever seen. This man, when congratulated upon the ine crop which his acres were producing, after a moment's hesitation to dig up a reason for his "grouch" replied, "'yes, it is a fine crop but it i ften given to looking at the wrong side of every thing? Surely the man whose farm is produc ing him a good crop year after year should not always be complaining. He has troubles of hie own no doubt, but many of his fellows have more and grumble less. Is it not a fact that a reat many of the things about which we find ault give cause for grumbling only because of our own neglect or failure to put in practice the best methods on the land? We have often wondered well on the poorest of soil; in fact many take a un-down farm and soon convert it into fertile fields, while others far more favorably situated have a struggle to make ends meet on the best of land. After all success or failure depends argely upon the man not the rarm, and il thing o not work out satisfactoriiy the man should apply his "grouch" to himself, and not put the blame on wind or weather, land or crops. Place he blame where it belongs, and by a knowledg of mistakes and studing trumbing of others done without a just reason. Fault-finding never ccomplished anything but studying mistakes and successes and applying the knowledge gained with common sense has made over poor farms to such an extemt that they are now numbered among the most profitable in their districts.

The Young Farmer's Business. It is often said that what is everybody's business is nohody's business and this in a sense ts the, government of our country chere is a difference. The making of the the vols aws is jus as moch the business of eater as of the representative, and he shoul It is not of the voter that we wish particularly o speak, but rather of the representative in parliament. Farmers are often heard complainny that there are not more of thelr number filling seats in the Ifegislature or House of Com mons, and we believe the complaint is justified But why are conditions as they are? No one foubts thut there are men from the farms capable of filling the seats, but many of those who Should be there are too busy at practical farm Iny and are in business too extensively to affor he time. It would mean loss to them. Anc population pay any serious attention to the dongs of politicians and pelitics generally, voting father used to vote. They are not up to all

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 Adress-THE FARMER'S ADVOCATE, o
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generally not being public speakers, do not care o. face a campaign where the platform must be ers desire more members they must prepare them and elect them. It is the young man's day, and, if we mistake not, before many parliaments have been dissolved there is going to be an upheaval and some of the thinkers, among the live farming communities who have had the advantage of training at some agricultural or other college, will be in the fight, and will be able to hold their own with members of other pro-
fessions and will ably zepresent agriculture and the people. It is the business of the farmer to get into this pollitical game, play'it fair, and see get into this political game, play'it fair, and see deck of cards.

## Nature's Diary

A. B. Klugh, M.A.
Among all the plants which abound in our woods, fields and bogs there are none mure
beautiful or more interesting than the Orchids. beautiful or more interesting than the orchis.
The most striking flowers in our flora belong to this family, and all the species are extremely interesting because of the wonderful way in which
their flowers are modified to ensure cross pollination by the aid of insects.
Before dealing with the modifications which Be fowers of the Orchids exhinit it would be
well to briefly review the structure of some well to briefly
flowers which ar
flowers which are not so modificd. Take for inst ance the Buttercup. Here we have five separ:11
sepals, five separate petals, many separate sta sepals, five separate petals, many sepatal in any flowey the essential parts are the stamens and pistils
The former bears at its apex the anther which The former bears at its apex the anther which
contains the pollen the latter has a sticky sur face at the top, called the stigma, to which the pollen grains adhere. On the stigma the pront
grains germinate, sending a tube down into grains germinate, sending a tube down into the
ovary. Along this tube the nucleus of the pollo ovary. Along this tube the nucleus of the porme
grain passes, fuses with the egg-cell in the orvle grain passes, fuses with the egg-cell in the ovmle.
The ovule is then said to be fertilized and is The ovule is then said to be fertitized and is
termed a seed.
that modifcations have taken place. In Fig 1 e see that there is a broad oval standard at the top of the flower, this is one of the sepals. The in the two sepals are united and are below, are hidden by the lip. Two of the petals stand out like wings at the sides, into a sac called the lip. From Fig. 2 we see

hat in place of the stamens and pistil being separate, they are fused together into a structure of three stamens and the pistil, but one stamen is sterile and has been transformed into a shelf, in the centre and underneath which is the stigma, while at each side and beneath are the two (or stalks) so that only the anther remains. The


Fig. 3-Showing Lady's Slipper ; n it.s haunts. pollen in the orchids is not dry and powdery as it is in other plants, but is contained in the termed the pollinium, or pollen mass.
Now when we come to investigate the method of pollination we see the use of these modifications. The insect enters readily enough through the opening shown in the centre of the flower in
Fig. 1., but when after having dined on the nec

ing by the "back doors" its, back comes in con tact with the stigma (see Fig. 2) and sume of time the insect gets another it. At the same this last flower to carry to the next and so on Thus we see that by this elaborate device The structure of the flower of the Yellom
The Lady's-Slipper is very similar to that of the species just described, but the upper sepal is
narrower, and the two side petals are twisted, narrow, and hang downwards. In the Stemless I, Lady's'Slipper, which is also
nather aptly called Moccasin Flower, the entrance rather aptly called Moccasin Flower, the entrance
to the lip is a slit instead of a roundish opening to the lip is a slit instead of a roundish opening,
the texture of the lip is softer than in any other species of the genus, and the lip is purple in
color.
The little Ram's Head Lady,s-Slipper is one of our most unique-looking flowers, as may be seen being by far the rarest of all our Lady's-Slippers The habitat of the Lady's-Slipper is usually in peat-bogs, and it is fortunate that it is so, fo few but ardent botanists venture into thes
places of wet and uncertain footing, and if the grew in more accessible places they would soon be exterminated in all settled parts of the country. The botanist is content to admire them in their haunts and to carry away a few blossoms to exhibit as examples of the feauties almost cer tain to return with a spade and a basket or two, to dig up the plants and plant them in a garden
where they soon die in its uncongenial soil.

## THE HORSE.

Rearing Foals From Working Mare Profitable. A correspondent of "'The Farmer's Advocate,
Winnipeg, Man., gives some seasonable advice re garding the rearing of foals from working mares,
and his ideas herein recorded are applicable throughout Canada.
There is no reason whatever why breeding mares should not do a fair share of the season's tarm work, and at same
strong, healthy foal. IOf course discretion must be used. Personally I am in favor of their being kept off the roads from doing such, work as hauling grain on account of the uncertain state of
the roads at this season. Mares hauling heavy loads and constantly getting "stuck"" would probably result in giving birth to dead foals. On
the other hand, they can be worked to advanthe other hand, they can be worked to advan-
tage at almost any kind of field work such as seeding, summerfallowing and cultivating right up to within a few days of foaing, and again
with discretion two weeks after foaling. with discretion two weeks after foape
Mares are in much the best shape for foaling if allowed access to grass frequently and regularly. Personally, I am dead against work horses
being turned out to pasture, after doing a hard seing turned out to pasture, after doing a hard
lay's work, all night to get their living, but I oults think that in-foal mares give much better results when they have lots of green grass to eat,
but then they should not be doing full work at this time. Where the mares do not get green feed they should certainly have bran and its of of work phould. A mare doing a fair amount two quarts of bran three times a day with all the best hay she will clean up. The colt should usually is surprisingly so it will eat them, which Be sure these oats are the best possible. Avoid musty or heated oats, old oats are best. little sweet hay as soon as old enough. When mares are working and come in from the fields at all heated they should be kept from colts un tirst they have had time to cool off. I think the best place for a foal when dam is working is ${ }^{9}$
nice high-boarded, loose box with small yard in connection, also well boarded. Right here I must say I think the very worst place for a foa is to be allowed to run all over the farm afte, the mother when mother is working, and yet allow surprising how many
their coits to do this. Before turning mare in with foal remove har-
ness to avnid accidents. It is also much the ness to avnid accidents. It is also much the
best not to tie mares up as colts are likely to get entangled in the halter shank. If this is un avoidable, I advise tying a stick to halter
shank between the head piece and manger. This helps to prevent the colt getting entangled. Colts that are raised in this way are invariable quiete than the range-raised colts, they are used to be
ing handled, and it is a very simple matter to halter-break them at this period. They are also easier to wean in the fall, and if given proper
attention will not lose any colt flesh at this
perion which is perion which is most important.
All things considered I think working in-foal All things considered I think working in-foal
mares with discretion a good business proposi-
tion, and in itself comprises a branch of mixed

JUNE 11, 1914
Indigestion in Horses-IV. Flatulent Colic.-A disease commonly called
fatulent colic is quite common in horses a form of indigestion, and in the early stages the symptoms strongly simulate those of the disease already discussed as acute indigestion. This condition is much more serious than spasmodic
colic, and the causes are much the span changes of food or watere, overfeeding same, viz, (especially
after a long fast or when overhented after a long fast or when overfeeding (espeatially
poor quality, severe exercise to to soad soon of of poor quality, severe exercise too soon after a
mean, a weakess or partially inactive state of
the digestive sland meal, a weakness or partially inactive state of
the digestive glands, etc. Food that ferments
readily, as readily, as green clover, "turnip tops, etc, espe
cially if wet or frosted, is a fertile cause. cially if wet or frosted. is a fertile cause. It
sometimes occurr outing thring the propress of other
diseases, indicating ${ }_{a}$ very
grave
condition This, and in fact mostly all intestinal diseases, occasionally appears without recognizable cause,
due, no doubt, to a nonactive condition of the
dies due, no doubt,
digestive glands.
Symptoms.-The symptoms do not appear so
suddenly, nor yet sudeniy, nor yet are they so violent or alarm-
ing to the ordinary observer as those of spas-
modic colic. moam coic. The animal becomes dull, uneasy, looks around at his flanks, paws, lies down carefully, may roll, gets up again and continues to
show uneasiness. The puise is increased in both
force and frequency force and fresuency, and the respiration is often
more more or less labored. The semptoms of pain
are practically constant, but vary in intensity. are practically constant, ${ }^{\text {and }}$ but vary in intensity.
In a short time ater the first symptoms are In a short time arter the frst symptoms are
shown there will be noticed a more or liess
well shol-marked fulliness of the abdomen (bloatings)
more marked on the right side iust in front of more marked on the right side just in front of
the point of the khip. The visible mucous mem-
branes become injecte the puite increase in frequency but usually gradually loses force, the respirations will be labored in proportion to the degree of distention of the abdomen
with gas. The extremities are usually cold and there is often a twitching of the muscles. If relief be not afforded the symptoms continue increase in severity, bloating becomes excessive
and death takes place from rupture of the in-
testine suffecation or absorption of and death takes place from rupture of the in-
testine, suffocation or absorption of gases into
the circulation.
Treatment. Place in a roomy box stall or pad-
dock. Agents which commine wwith, neutrariize or
dissipate the pose there is probably nothing that can be safepose there is probary nothing that stomach that acts so well as oil
ly given by tur sentine and raw linseed oil, one to three
of turp of turpentine and raw linseed oil, one to three
fuid oo. of the former in hall a pint to a pint
of the latter (according to the size of the patient. II In necessary the dose may be repeated
in an hour. When this is not quickly obtainable
in

 dissolved in water should be given. The patient
should be well bedded and kept tas comfortable as possible. AA couple of gallons of warm, soapy
water should be injected into the rectum occasionally. If pain be severe it should be com-
bated by the administration of 1 to 2 oz, chloral hydrate dissolved in water or 1 d fluid or, each
of tincture of belladonna and sweet spirits of nitre in a pint of cold water as a drench. This
anodyne dose may be repeated every two hours as needed. If bloating becomes excessive care
should be taken to prevent the patient from should be taken to prevent the patient from
thro ing himself down sudenly, as there is dan-
ger of this causing rupture of the distended inger of this causing rupture of the distended in-
testine. If the bloating becomes so marked testine if the is eminent dang berome of sultocation or or
that there is
sapture the patient should be punctured on the right side at the most prominent part between
the point of the hip and the last rib, to allow the point or the hip and gas. This operation, if
the immediate escape of
still skillmmedy performed with a trocar and canula, has
proved sery successful in most cases, but the use proved very successful in most cases, but the use
of knives and other crude instruments, has on ot
ustanly been followed hy satistactory results. In a case of this disease where the administration of the doses recommended does not gain
relief in at most two hours it is better, where possible, to secure the services of a veterinarian.
Where this annot be done the attendant can only do his best according to instruction. Constipation of the Bowels. The many cases
may be looked upon as one of the symptoms of ot her digestive diseases rather than as a disease of
itself. In other cases it is the primary trouble. This is often noticed when a sudden change of Tood, especially from hav to straw is made, as
is itten the case in the fall when work is
finished work finished and the horses will have little or noth-
ink to do for a few months. In about a week or ten days after the change is made the
sumptoms of the troube beorme apparent. $\begin{gathered}\text { In } \\ \text { In } \\ \text { many coses it occurs without well-marked cause. }\end{gathered}$
 glands. in which case the administration of of
dram each of nux vomica and sulphate of iron ${ }^{3}$ times daily will suffice. als inint. We wotice that the horse has not his
uswal vitality, he is somewhat cull and his an-
und

THE FARMER'S ADVOCATE.
lacks moisture. If the ear be placed to the
abdomen an absence of the normal intestinal murmur will be detected. The murmur may be almost absent or it may be of a metallic nature. muscular coats of the intestines, hence, the absence of or altered nature of the sounds.
Treatment.-The administrate gatives must be avoided, as a purgative cannot act so long as the paralysis exists, and cando harm, by irritating the intestines. The paralysis must be overcome by administering three times daily, followed by one to two pints of raw linseed oil or 4 to 6 drams aloes and 2
drams ginger. Injections given, and the injections per rectum should be given, and the patient fed on laxative, easily-
digested food.

## LIVE STOCK

## A Summer Silo has a Place

The practice of soiling seemed so radical at first it y it of farms throughout can on large percentage working itself in ing carried on where operators are after dividends and profits the it is the labor problem has discouraged the cus tom, but arrayed against this obstacle is the decreased area of land required to maintain an equal-sized herd. There is no doubt but what most crops used for this purpose can be mowed with the machine, raked with the horse rake loaded with the hay loader, and spread on the barn floor twice a week and preserved in good and wasted time often considered when the handscythe and wheel-barrow are used to carry out


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this end. The usual mid-summer shrinkage in
milk or flesh can best be avoided by housing the stock in the stahle during the heat of the day.
and turning them out at night for exercise and grazing. A smaller run will suffice where they receive liberal rations during the day. soilage crops equals about 2h acres of the good blue grass pasture for feeding dairy cows, but
the matter of corn silage in the summer may the matter of corn silage in the summer may be
considered soilage as well as clover, alfaifa considered sollage
vetches or rape.
Many stockmen now have at least one silo on
the farm, but there are many cases where a ser ond silo to be opened in the spring would be a money-maker for the place. On an average $\$ 250$
should erect a serviceable silo that would hold at least 100 tons. $\$ 1.25$ is the approximate
cost of producing and ensiling one ton cof cost. of producing and ensiling one ton of corn.
This places every ton of silage at a total cost This places every $\$ 3.75$ the first year. Dairymen now-a-dovs admit that corn silage in the silo is worth $\$ 3.00$
per ton, and if this be so there is only a debt of 75 cents per ton of silage outstanding against, this venture. This could be easily wipen out in
the second year and handsome profits gained. From experiment it is hard to discriminate be tween ordinary, forage-crop soilace and conn
silage. Taking them under similar conditions they give practically equal results, thus it seems
that if labor is to be scarce considerable saving can be made by using the silo in conjunction
with the field thus producing the largest crop of forace possible to grow on an acre of land, and
to be preserved in the best possible manner.

Why Not Have a Dehorning Day? are dow-a-days things which concern everybody up day," "allfalfa dape", "way. There is "clean the greatest obstacle in the way of a dehorning
day is that the calves should be deprived of day is that the calves should be deprived of
their horns before all the calves in the country are not the same age However, a particular day of each woek might be set aside as a fitting time to use weok
cuastic potash freely carrorm potash freely, and in a humane manner
perfe operation which is so neesary desirable from many viewpoints. In their primi-
tive state cattle required tive state cattle required horns, they prim-
their sword and battle axe in time in th domesticated state horns are no more necessary than a repeating rifle at a paece con-
ferme. The
The mandate of the Union Stock Yards, Tor-
 horns depreciate the vonclusive evidence that
One visit to the value of stock offered. One visit to the yards will convince anyone that
this move is just. The lacerated slides of a number of the animalis that haverated bend dies of a num-
horns of others in transit or after horns of others in transit or after arped bal. and
the bawling and frantic bellowing of the weaker
ones. when beir ones when being pinned to the wall by a more pugnacious creature are proof that the by arns are
a detriment. Furthermore, the animal a detriment. Furthermore, the animal may not carcass often tells the story by bruises and red punches. These are often inflicted by careles
drivers but more frequently it is the result of drivers but more frequently it is the result of
horning, and salesmen ciaim that it materially decreases the appearance and value of the carcass. Cattle "without horns are more quiet in
the runs, and it behooves the feeder to remove their horns in the fall, and with a a full-
reme grown animal it is little short, of a brutal opera-
tion. Farmers who allow the tion. Farmers who allow the young call to
grow up without removing the horns more responsible for the pain to the are even
than the feeder who makes it fast and with saw a nd clipper paith saw
separates the horng
from the bawling
iromen brute. Many a lasting scar or perhaps an eye or or
limb could often b spared the at
tendant who is con. stantly who is c on n -
the stock if they it the stock if they were
deprived of such deadly weapons., True, it
is many breeds a d
especially mhow in especially show anil-
mals of those irreeda
are enhanced in value are enhanced in value through the possession
of those ornaments,
but those creatures are but those creatures are
usually trained to deusually trained to de
port themselves man
nerly and the risk nerly and the risk is
not so great. Barring
such class of stack. where opinions might
difer, there is still a
host of cows fit on y for the daily, and they
are just as productive
and quite as pleasing in appearance $w \mathrm{hon}$
deprived of their danThe most effective and humane method to attain this most desirable end is to use a stick of caustic potash. Moisten it well and rub it on
the sprouting horns before the calves are three
weeks old. Rub it on the horns only, weeks old. Rub it on the horns only, and if
necessary repeat the operation. If properly necessary repeat the operation. If properly
handled there is no disfigurement and a happy
result. Let us have a dehorning day.

## THE FARM.

## Farm Engineering

WATER WHEEL INSTALLATION AND COSTS. A preliminary survey and outline report by a
competent engineer is advisable in where a water power plant of any great case to be erected. Such advice is not expensive and will many times set the farmer on the right track regarding details of his venture. For small installations however, the farmer may rely on his
own judgement and the help available from own judgement and the help available from the
manufacturers whose wheel he purchases Thi meries of articles has for its purpose the training of the farmer to the extent that he may recognize the possibilities lying in the small
stream running through the fields and may be able to determine the power available from it and the kind of wheel to purchase. 'Ist what
instadlation is best in each case and the exact
can do is to give general information in these particulars． Befere dermining the size of wheel to use the condition of the stream at all seasons of the year must be taken into account．The instand tions must be figured on for，if the head of water
is real variable，a wheel too large for all but the is real variable，a wheel too large for all but the
highest heads will operate at a very low efficiency highest heads will operate at a very low efmiency
when the head is low．On the other hand， wheel too small for any but the very low head will have low efficiency on the high heads．In almost every case the wheel is chosen be matintained under wide variations in without affecting the efficiency of the plant．The usual solution is to arrange the plant so that the head will remain as nearly constant as poss－
ible and any surplus water go to waste．As has ible and any surplus water go to waste．As a previous article low heads are best developed by turbines and high heads by Pe
ton wheels．．These two types are practically th ton wheels．These two types are practically the small installations and are used extensively．The speed of the turbine is fast；that or the quantity wheel is slow．The turbine uses a great quantit For turbine installations the natural head is dàm enlarged sometimes doubled，by building a dam across the stream at some convenient spo．
oft to one side of the dami，＇as illustrated in the sketch，the raised water enters the head race， goes through the turbine，and then goes out through the tail race．The short length of pipe or open channel from the head race to the wheel
is called the penstock or flume．The portion of is called the penstock or flume．The portion
the water course in which the wheel is situated is called the wheel pit．
The following table gives some figures about
successful farm instaliations of water power in successful farm installations of water power in
various parts of the country．All of these are various parts
turbine plants．
table 1.


A Dam for Turbine Installation．
 above，for example，the power developed is thret and is twice that of case D with but little ad
ditional cost．These are hardly fair compa：i sons，
In case C above the dam was of concrete and
raised the available head fifty per cent．to the ggure given． 2，000 feet long fr to the farmer＇s house．The cost of operation the interest and depreciation actual cash outlay for oil and repai
In case $D$ the dam wass of carth nearly $\$ 400$ ．The transmission and house ing cost and installation． The turbine wheel must be instalied
close to the dam．On the other hand，the wheel is very frequently far from the point
the water is available
case the water is transmitted from the stream there is no dam nor other construction necessary
if a Pelton wheel is used．There need be no run－ ning water．A pond elevated above the wheel is ideal．The expense consists of the pipe line to the wheel，the wheel itself，the pipe line or
other arrangement to conduct the waste wate away．In particular this style of plant lends itself to ready use in connection with irrigation projects．The water is then brought to the
wheel，and the waste water from the wheel used for irrigation purposes．The expense incurred for irrigation purposes．The expense incurred power and irrigation．
The cost of the Pelton wheel depends upon the
s 3 －foot wheel costs from $\$ 220$ up to size．A 3 －foot wheel costs from $\$ 220$ up to to operate；a 4－foot wheel from $\$ 285$ to $\$ 675$ ；
a 5 －foot wheel from $\$ 350$ to $\$ 625$ ；a 6 －foot wheel a 5 －foot wheel from $\$ 350$ to $\$ 625$ ；a 6 －foot wheel
from $\$ 400$ to $\$ 800$ ．The following table gives
the horsepower developed by these standard water needed in each case can be figured by the methods already given．

| $\begin{aligned} & \stackrel{\text { ® }}{ \pm} \\ & \underset{y}{*} \end{aligned}$ | $\begin{aligned} & \dot{\otimes} \\ & \text { © } \end{aligned}$ |  | $\begin{aligned} & \dot{\Phi} \dot{0} \\ & \stackrel{\pi}{E} \end{aligned}$ | ¢ <br> ¢ <br> ¢ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { تٌ } \\ & \text { 蔦 } \end{aligned}$ | ث゙ |  | 芦 | ¢ |
| 50 | 5.98 | 10.60 | 16.63 | 23.93 |
| 100 | 16.84 | 29.93 | 46.85 | 67.36 |
| 150 | 31.01 | 55.08 | 86.22 | 124.04 |

## Growing Forest Trees for Generations to Come．

Four hundred and ten thousand trees to the average man would seem a great forest，and yet， distributed over the wide Province of Ontario，
they would only make a wind break if planted eight feet apart in a single row across the north side of this Province．But this in itself is no small matter－it is one of the big things of the
day this reforestation．When it is known that from a small farm，as farms go in Norfolk county，this number of forest trees were sent out by a few men this spring to be planted here and there over the entire Province，as a start in re－
forestation it must be considered one of the largest undertakings，and shows during the last four or five years，which the Norfolk Forest Sta－ tion has been in existence，most remarkable de－
velopment．Just think what these 410.000 ，now velopment．Just think what these 410.000 ，now
very small trees，will be worth to this country forty years hence；and this is only a beginning． As years go by thousands upon thousands of trees will go forward from this farm．which was
some four years ago a heap of drifting sand． One is almost amazed who knew the farm be－ fore its development commenced，when he now approaches it from the south and beholds on the south－east corner．Which som into the roadways ago shifted by the were required to move the sand back，young Jack Pine trees anywhere from eight to fifteen or sixteen feet high，and pushing out new growthes in extent．Five years ago old timers in inches in extent．Five years ago ord then they saw men attempting to grow trees on land which had to be held down by piles of brush．or other－
wise it would move over to the next farm． wise it would move over to the next farm．
These are now the strongest converts to the These are now the strongest converts to the
．possibilities of reforestation，even on the shifting sand．
Just back of the five－year－old plantation re－ erred to are two and thre－year－old trees mak acres are now permanently planted to forest Much more would have been done but the people of the country have been appreciative，and
realizing the need which exists for more forest area，the demands made for trees which are sent out free of charge have been great，so great in
fact that this spring not a tree was added to lact that this spring not a tree was added to
the permanent plantation at the Forest Station． Che permanent plantation at the Forest Station． So great was the demand that the station was
cleaned out of nut trees entirely，and most of
the other common varieties were pretty well the other common varieties were pretty well
gone，although quite a number of Manitoba laple were noticed in stock．Chief amongst the
arieties sent out are Scotch，White．Red and Jack Pine，Black Locust，White Ash，Hard Maple From observations made at the Station and in the opinion of some of the experts in charge， to be one of the hest varieties．On a ridge back towack the centre of the plantation a block of

These made almost phenomenal growth，but the
hard winter of 1913，which so affected the peach hard winter of 1913，which so affected the peach
trees，seemed to have a similar effect on the Black Locust plantation．The trees are quite severely frozen back，and it will take them some time to recover from the shock，in act，many of for those contemplating planting forest trees．Un－ less favorably situated where there is little danger from freezing，namely close to the lake shores， it would seem inat Black Locust．The Jack Pine makes almost a phenomenal growth on light land，and on this the lightest of blow sand is going ahead at a rapid rate．It is held，though， by experienced foresters that in the end the
Scotch and other varieties of Pine will overtake and outgrow the Jack Pine．It is a rapid grower at the start，but does not do so well later on under some conditions．
One of the most interesting departments of the work are the seed beds in which the seed is
planted and the young trees propagated．These are situated in very light sand，but irrigation is resorted to to keep the young trees growing，
The Skinner system has recently been installed and with it the beds may be moistened every evening，in fact it is not believed that any harm would result if the water were applied dur ing the entire night．The water is supplied
from a pond well back on the farm，and from from a pond well back on the farm，and from
which by wind mill and gasoline engine the water is forced up and into an elevated tank，pipes from
which lead to the system ot irrigation in the which lead to the system of irrigation in the seed beds．This gives pressure enough to nozzles which are placed every four feet on the over head pipes of the irrigating system．It is just get，and the germinating seed and young trees get，and the germinating seed and young trees
should do extra well in these warm beds with plenty of added moisture．
A nursery is located about the centre of the Pines which had just been set this spring．These are grown in rows much as the gardener grows onions，and are shipped out at $\mathrm{two}_{2}$ years of ship the next year after planting from the seed beds．
Reforestation is bound to be a paying in vestment for those who undertake it properly on cultivation and hesides this most farmers would benefit hy having and keeping a woodlot on their farms．Mr．Lane，who has been in charge at the station since the work began，helieves that would be better off if they planted instead White Pine forests．This applies，of course，to poor planted by careless men who will not look after them．The strong point in the forest work is
that forests require very little care after being

planted. In thirty or forty years trees now be
ing set, if they grow anything like as fast as those are doing on the very poor land which cannot but be a very valuable atset. Williams, try, and will surely yield large returns to the owner of the land upon which they grow. the
well-known lumberman took 35,000 trees this
year from the Station, and he now year from the Station, and he now thinks so
much of the work that we understand much of the work that we understand he is con-
and planting out some half million trees annual- is indeed marvellous, and Prof. E. J. Zavitz, 1y. He has felled many a fine forest, and now under whose control the work is, and his able wrought. This gives some idea of how the work assistants, Mr. Newman and Mr. Lane, are to be is taking hold of the people who understand the trees.
As stated in the beginning, one who knew the barren waste of five years ago, and where these
fine trees are now growing, can scarcely believe
his eyes when he approaches the plantation his eyes when he approaches the plantation.

## Where System

Saves Dollars.

Just east of the pretty town of Simcoe in
Norfolk County, Ontario, with vation overlooking the Lynn River front eleLynndale Farms, in reality a big farm-development proposition which in a few years will be ada. it is a revelation to anyone who knew this property some years ago to see the changes
which have taken place during the short space of four years. Four years ago the land lying next to the town of Simcoe was very poor intoo light to attempt to grow any crop thereon, and several fields were thickly dotted with pine stumps, the only remains of the noble forest which once covered these then somewhat infertile tracts. The land was also cut up into rather in the corners of which grew luxuriantly many noxious weeds which seemed to do well on the land even though crops did not always develop
into a paying proposition. A vast change has come over this land. It would seem that some magic hand had with one stroke swept the fences from off the slopes, and removed the
stumps from almost the entire farm. Witr these have gone the weeds, and in the place of a more or less barren waste there grow peach and apple trees in one large orchard 450 acres in extent. 700 acres. True, some of it was improved and planted before the present management took over he land. One hundred acres was purchased rom Jas. E. Johnson, and most of this was al other 100 acres, known as the Olds Farm, was purchased and several acres of this was already in fruit. The greater part of the remaining portion has been set since the land was pur-
chased, and one can stand at one end of a row of trees over three-quarters of a mile long, and to use a common phrase, it is 'as straight, as a
bee line." Farming is done on a large scale on bee line." Farming is done on a large scale on this place, but many ideas are brought into use
which, in a modified form. could be worked out on a smaller scale on the averaged-sized farms of the Province. THE HORSE BARN.
Thirty horses are required to do the work on stabled in the same barn, the old stables having been pulled out and the barn basement turned into a horse stable. There are features in this and which for cheapness and utility recommend themse ${ }^{\circ}$,es to those having a horse stable to fefit or a new one to build. Most of the stalls are nine feet deep and five feet wide. There are
a few a $1,+1$ le narrower than this, but for gooda few a $11+t l e$ narrower than this, but for good-
sized horses they are considered tor narrow: Mangers are made of plank and are very simple in construction, with the oat-box in one end as kept, and he has everything ready for the horsses matters, in the alley-ways in front of the animals an oat-box is arranged in front of each box in the manger. This is fitted with a slide bottom and the grain fed is placed therein by come from the field, provided they are not too warm to be fed, simply pulls the slide and the and is working out entirely satisfactorily. Another thing which we noticed, and which important in a horse stable, is ceiling of the stable, but the top is fitted half way back from the front of the stalls with $\frac{8}{8}$-inch iron rods. The system quite often used of sloping the plank
stall partitions from the front about half way back and leaving them low at the back was tried, but uniess the horses were tied too short
for their own good and comfort they did confor their own good and comiort they
siderable fighting over these partitions, and it siderable fighting over these partias. The iron
was deemed wise to chance the plans. rods are set into holes bored in a piece of scant-
lins which extends the length of the stall ling which extends the length of the stall
at the top, and the other ends rest
at in holes in the top plank of These preclude all da ger of injury to the horses caused by
irritating each other over the tops of the par irritating each other over the tops of the parti
tions, and allow a free dissemination of light to
nd and so often neglected different from has a ventilating system spmewhat ways easy in remodelling run. It is not althings just, as requiredl, These ventilators seem tion and inexpensive and are simple in construcpipes run from the basement through the roof.


A Handy Mixing Tank
Showing tank for mixing spraying materials elevated on blacksmith shop.
Water is pumped from cistern under implement
They are eighteen inches in diameter and extend the morning and none at all is given at noon down to within a few inches of the floor, hav- but all the horses will eat up clean is placed in ing also an opening near the ceiling of the stable, the manger at night. This is the system fol Wruft in operated on the same plan as a check lowed in many livery barns, but kas not bee outlets for foul air. Fresh air is brought in heavy spring's work, and in the harness every through the doors and windows only. The out- day, are in first-class condition, and are fit and far have done the work quite satisfactorily.


Filling the Spray Tan
Another method of quick filling. (see article.)
the horses in good condition is believed to be
the frequent use of the currycomb and brush. Every horse in the stable is cleaned twice each day, and is given a thorough brushing which
keeps their skins sleek and clean. The entire thirty were clipped ea:ly in the spring before go ing to work on the land. This also facilitated the matter of keeping their coats in good condition.
In the working of the horses a system is used
which is not common, even on fruit farms. With such a large acreage cultivated, it is necessary to use big implements and experienced orchardlsts know. With what difficulty these are operated around and under trees. Most growers therefore, choose to use two-horse implemente
only. On this farm, however, four-horse imple ments are used whenever possible, two horses making a team to draw these where trees inter
fere with the progress of the work. A regular fere with the progress of the work. A regular
four-horse team is kept, two of them being worked in the forenoon and two in the afternoon These teams get no more feed and get the sam care as the regular four-horse teams whin work the land not already planted to trees, and to al appearances are in just as good ckept steadily going, but as stated they only work half a day at a time. It is thus found possible to keen the four-hourse implements going in the orchard All harness used in operating this big farm is ept in small harness cupboards. At first hanging on pins behind the horses was tried but it was not satisfactory; now every team has a eparate cupboard which cost only about $\$ 6.00$ the harness is hung and closed up. These stand in the wide alley behind the horses, take up little room, are inexpensive, and one of the best methods we have seen of pron

A REPAIR SHOP A NECESSITY
With twenty-five men and thirty horses, and With twenty-five men and thirty horses, and the multiplication of problems which come up, it is necessary to have a complete system on the
farm, otherwise the work would eventually. defarm, otherwise the work would eventually. de-
velop into a hopeless muddle. Few indeed are velop into a hopeless muld le. Few ing large or small which have everything so systematized as is the case on this fruit ranch. Adjacent to the horse barn stands the large implement shed, 150 feet long, and every noon and night all implements which it is time are brought to this shed and backed under cover. Here a mechanic is in readiness to go over every implement and machine, tighten all
loose nuts and make nedessary repairs. In this manner the implements and machines are always ready to take the field, and not a moment is lost through small breakages. all-round handy-man. He makes double-trees pairs all sorts of small and large breakages of iron or wood. This bringing the implements in also insures their being handy when next needed and preserved from the elements which so soon working together is provided with a leather too sack of necessary tools to take to the field with them. A small, inexpensive blacksmith sho With a forge and necessary blacksmith and car
penter tools is provided. This handy-man is one of the busiest men on the place, and save more time and money than perhaps any other of the hired men. With thirty horses and th necessary implements, one can readily understand
that there is work to do in the repair shop most of the time.
how spray tanks are filled.
This man also looks after the mixing of spray materials, and a tank of well-mixed spray material, during spraying time, is always ready to go to the orchard. While on this point we
draw attention to our illustrations which show draw attention to our illustrations which show
the method of filling the spray tanks. A two hundred-gallon tank is placed on top of this blacksmith shop, the roof of which is doubl boarded with a prepared roofing between. Two
pumps lead from the roof of this shop, one to a
shen pumps lead from the roof of this shop, one to a
large cistern which holds nearly 28,000 gallons, and which is situated under the end of the impiement shed, next the blacksmith shop. This
cistern is kept full of water from the eaves of the cistern is kept full of water from the eaves of the
large horse varn and the biz implement shed large horse barin and the big implement shed
From it the water is pumped into the 200 -gallon tank on top of the blacksmith shop. The other pump leads to a vat of commercial lime
sulphur used in sprayine. The spray material sulphur used in spraying. The pray material
is mixed in the tank hy the handy man, and is mixed in the tank
when the proper outfit comes from the orchard it
just takes about a minute to fill the tank fron just takes a aout a minute to fill the tank from
this elevated preparation tank, so no time is lost in preparing material and the outass
kept going all the time. The other illustration kept going all the of filling on the farm, which was formerly the Johnson farm: a windmill and gasoline engine are used to pump the water up
into a tank. A preparation tunk is filled at the a nd of the barr from the tank iwn barn approach, and, as shown in the illustration,
the material already mixed is run from this tank
into the spraying outfit, which, in this illustrainto the spraying outfit, which, in this illustra-
tion, is the compressed-air outfit, in which the tion, is the compressed-air outfit, in which the
water and air are mixed at the nozzle and a finer spray results with much less pressure on the hose. This is one of the simplest methods of filling spray tanks we have seen, and is just as quick as most. The spray materials are al-

With the standard winter varieties there is also a large number of trees of the earlier varieties,
such as Transparents, Duchess, Wealthy, etc. the Johnson place there is a block of sour cherries comprising some 300 trees, which, unless all indications fail, will give a very heavy crop as the young fruit is set and growing
rapidly. Just east of this is a block of Keiffer rapidly. Just east of this is a block of Keiffer has ever been our privilege to see. The trees ar


Going to Dinner
A fine four-horse team on Lynndale Farms.
commendable one. It costs very little to collect the water, the walls of the implement shed be feet deep and twenty feet by thirty feet. The cement for these walls was mixed one to fouir with a floor six inches deep, and the side walls einforced and ten inches thick with no plaster. othod getting water is practicable and in every way efficient.

around the seventh stronger cable than the so much danger of stretchine Fences have nearly all bo the highways as well as thon removed land into small fields. The fence separating the cleaned up, and all is now ene large field divided here and there by private driveways or public highways. A great deal of rye is grown
in the orchards on the sand land, and this is ploughed down to
maintain fertility sides the manure made at the place over forty tons of h om $\mathrm{m} \boldsymbol{\theta}-$ tilizer have been a $p$ plied this spring st:awberries were just coming in bloom last week, and promise a
crop of anywhere from 30,000 to 40,000 baskets. B 最tween twenty a nat thirty grown and a consider able acreage of corn, some for the silo, b ut most of it is $\mathbf{s}$ weet orn for canning pur-
poses. Tobacco has been a paying crop on the place, and $t h$ is year late tomatoes for the canning factory are extensively. During the spring season it is sometimes necessary to get on extra help, and
a few teams are hired to get the orchards ploughed and culti-
vated before the weeds vated before the weeds make
start.

SWEET-CORN SILAGE. we noticed a number of heifers which had hee fed all winter on silage up to make the very best The plantation oromprises most of the well- alone. Mo pretty feeders stin cobbed up to make the very best
he pell
feed for cattle or even to make suitable silage, 11. earlier varietins usiod as mlers. The stand- but th. silage upon which these heifers were fed fillu. sives are piannd forty foect apart under the was made from sweet corn stalks, from which ang great deal of the or. loud and up, to last winter's factors. Besides this this corn was frozen two
hard frost had done winy will, but cold weather or thin times very badly before being ensiled.


JUNE: 11, 1914
THE FAKVIER'S ADVOCATE.
week when we examined the silage it seemed right in every way, and, moreaver, it must have
been most satisfactory as the heifers being fed on it are now sleek an put in in the freeding of them were very thin.
The Superintendent,
lieves that there is something ingle, B. S. A., bein favor of sowing corn thickly and not allowint much as possible of the sweet corn utalks as ior
milage. silage. A BIG JOB.
This property is owned by the Ontario Fruit and head offices at Toronto. The as manager, tually operates this farm for the company has a big task before him, but judging from ap-
pearances the man is still bigger than the job. It requires a good deal of thought to develop a in the daily work connected with such occurs development, fruit-farm undertaking. Men are all
hands of the foremen, and each man's time and glance at each week's end everything is revealed
Cottages are provided Cottages are provided for the married men who are paid as the other men, by the hour, and so
much a month deducted from their much a month deducted from their wages for
rent. With eack house goes a small Fuel, milk, potatoes and such necessities are supplied by the farm owners. but are charged for in the same manner as the rent is charged. In this way the man knows just what he is getting, the out, and everything runs smoothly. There is no trouble between employer and employee. When to stop work at once, or where he desires to the end of necessity, held back to facilitate matters in the
hookkeeping. hookkeeping. The formen turn in their books to
the superintendent every Saturday night, and they are kept in the office. From them it is possible to tell just how long it took to spray, cultivate or work in any other manner any part
of the orchard. It is the most simplified system tire satisfaction of all concerned undertaking from start to finish, and the entire workings of the place are brought down to such a simplified system that success must follow. the great work is recognized, and is a part of the great mackine which must not be neglected.
This farm business is a big business after all and requires big men

THE DAIRY.
Milk-Testing
Editor "The Farmer's Advocate":
EvOLUTION OF MITK TESTS
Judging from letters received and requests for
testing information, also from the number of samples of milk and cream received by mail to be tested, this is one of the most important
questions with dairy farmers. In certain kinds of dairying, notably among cheese-factory
patrons jwhere milk is paid for according to patrons วwhere milk is paid for according to
weight regardless of what it tests, farmers are
not interested in not interested in testing problems. These are
chiefly concerned with producing as large a weight or bulk of milk as possible. In creamery
districts, certain cheese sections, at some con-
densers, and to a certain extent in city milk Trade, the test prohlem is a big one.
We purpose dealing with some of these problems in two or three articles, with the permission
of the editor. For a long time previous to 1890, cow own-
ers, and milk purchasers, had been looking for a simple test by which they could determine the relative values of individual cows' milk, herd
mitk. and milk bought and sold. Whenever and
whinever wherever there is a strong demand for an article,
with prospect of said article being highly rewith prospect of said article being highty re-
munerative, someone, somewhere is aimost sure
to evolve that which is demanded
It was so with a milk test

percentage of fat contained. This is quite
erroneous. This morning (May 30th)
that the vat that the vat of milk in (May our creamery noticed
beautiful golden color-looked a test five or six per cent. fat, yet it would not test over about 3.6 or 3.7 per cent. fat. It is color to richness or percentage of fat in milk that some dealers add cheese coloring to milk
which is sold to city dwellers thus which is sold to city dwellers, thus soothing
their (consumers') minds as to the quality of their (consumers') minds as to the quality of
milk which is received. "There is but an indirect relation between "color", and percentage of fat in milk. The yel-
low color of milk is due to a substance called hut separate which is associated with milk-fat, pears to be the coloring matter of plants. Some scientists say it is wholly derived from the green know it matter (chlorophyll) of plants, but we other coloring matters. For instance the or son that the vat of milk looked so yellow in our
creamery creamery this morning is that the cows had
eaten a great many dandelions eatenditions milk cream dandelions, and under such ways highly colored. Other plants, such as arn and clover, also seem to have the property of adding yellow color to milk when cows are fed
on these foods. Then, too some cows appear to have the power of extracting cows appear matter from plants than do other cows-for instance, Guernsey and Jersey cows. All this leads us to be careful in the judging of milk as
to richness or percentage of fat, by its color. The eye is easily deceived in many things, and in none, more so, than in the milk question.
Taste is probably a more reliable test than sight Taste is probably a more reliable test than sight
in this case. in this case.
whole host of tests, with which Pioscope were a cern ourselves, although they are very interesting to the student of milk-test evolution. We shall pass over these and come to the one brought out
in 1890 by Dr. Babcock of the Wisconsin Fixperiment Station in the United States. The inventor of this test is still living, hence it is difficult to write of the matter as will some future histor-
ian. Dr. Babcock deserves all ian. Dr. Babcock deserves all the honor and
praise that has been heaped upon him. His scientific attainments and his modesty are wellknown. He would be among the first to acknowledge his indebtedness to other workers who had are peculiarly sensitive on this point, and any one who has the audacity to even hint that their hero is not. "the whole show" in testing matters is sure to be called to account. At the risk
offending some of my American dairy friends venture to say that the invent of the Test made large use of the work of other in-
vestigators, notably that of Short and Wiley, vestigators, notably that of Short and Wiley,
but he had the "luck," or scientific genius, to put one and one together to make one of the
most noted advancements in practical dairy
science. Short and other chemists had evolved
Prof. Sher the principle of dissolving the constituents of Wiley had made use of centrifugal force in his Washington Laboratory for separating various food substances of different specific gravities. Dr.
Babcock put these two things together and Babcock put ellese two his well-known milk test. So far as we know, this point has not been previously made clear, and yet so far as we are able to look into
the history of the matter, the foregoing are briefly the facts. (If we are wrong we shall be glad to be put right as a matter of correct history.) THE GERBER TEST
In the same year that the Babcock test came
out in America. a Swiss chemist. Gerber worke out in America. a Swiss chemist. Gerber, worked
out independently what is known as the Gerber milk test in Europe, which test is used very largely by European dairymen. The principles of the Gerber test are identical with those of
the Babcock. which is additional proof that the principles of chemical disassociation of the fat from the non-fatty milk compounds. and the massing of the fat. by means of centrifugal force, in properly graduated tubes, were well known to
dairy chemists at that time. In saving this we dairy chemists at that time. In saving this we
are not desirous of detacting one iota from the work done by the American chemist, but iustice and correct history would seem to demand that the facts be made the mists which gather around much clouded great events in human evolution.
During the eighteen years, from 1890 to 1908 , During the eighteen years, from $18 c 0$ to 1908, milk. Everybody judged milk by its fat con-
tent, nearly everybody "swore by the fat," and if here and there a man raised his voíce in protest
against the fat craze. he was at once anathematized and read out of the books of the
dairy party. Such a person was almost sure to he ostracized, and had it been possible, there
were those ready to crucify anyone who dared
cay one word against the new god who had risen in the dairy world. Ali those who did not
"kow-tow" to this mikado, their heads were,
and carrically speaking, cut from the shoulders, Stried to the Emperor in a mil-kan. Babcock to say that eighteen years after the tion, another was evolved at the Wisconsin Staworked out a test for the casein of milk but it was received coldly by the dairy public. Two gods in one generation are rather too much for even a fickle American public to seriously take into their household of worshippers. To-day the
worship of the casein test is largely neglected and the dairy public still bows the knee to fat. They seem to be somewhat like the American public-school boy who was reprimanded by his mother for saying, "Ma, my bather said has bust "' "hust," but "burst." "Well,", replied he, "sthe other day I said the burst of George Washington stick to bust," The American and Canadian publics still stick to $\cdots$ American and Canadian

WALKER CASEIN TEST
Dr. Walker of the Eastern Dairy School, Kingston, affiliated with Queen's University, has
recently evolved asimple method of determining the casein in the milk, but was not pathetic, to hear, it was amusing, if it vention; one member of a Dairy School staff upholding the merits of casein determination in milk, and another member of the same staff following with an address proving by most elabor-,
ate experiments, that there was "nothing to it." O. A. C. CASEIN-FAT TEST.
tural Dairy Department of the Ontario Agriculmeans of which both the casein evolved a test by of milk may be determined at fat in a sample Not very much has been said about this ap to the present, and it will probably require a new generation of dairymen to appreciate the value of casein or casein-fat tests. So far as the
writer can see, this casein-fat test should into use sit cheese factories, milk should come and for town and city trade milk; as, for all practical purposes, the casein and the fat of milk determine the value of milks for all these dairy facture of butter, milk-fat is the determining factor of value in milk and cream, hence the Babcock test or some similar test will be used in these our nex
plication of next article we shall speak of the ap-

## The Island Cheese Industry-and

 Eastern Ontario.Editor a Fe Farmer's 'Advocaten would not be as well or better off to-day, after 21 years of active operation, if the cheese industry had never business Prof. Robertson, in 1893, after ane efforts of factory had been in operation at New Perth, the year previous, which proved a success. The industry took like wildfire on the Island, for seven
years later, in 1900, $59,901,155$ Ibs. of milk were years later, in 1900, 59,901,155 1bs. of milk were price was very low, 60.05 cents per cwt., and somewhat discouraged the farmers, as might be expected from the price received for their milk,
and this quantity has never been duplicated since. 1900 was the big year for milk, and low as the price was, it was also the big year for the total cash received from cheese, was $\$ 569,106.75$.
Butter that year was the lowest in history Butter that year was the lowest in history, and
in factories where butter was made the milk in factories where butter was made the milk
realized but 46.5 cents per cwt. But from 1900 butter began to rise in price, and has ever since been generally more profitable than cheese mak-
ing, not counting the value of the skim milk. The next year, 1901, milk for cheese realized but 65.64 cents, while milk for butter realized 77.07 cents per cwit. Here is where our Island farmers
made their big mistake in not dropping cheese in 1901, and adopting butter in its stead. There have been a few years since, however, when milk for cheese realized higher prices than milk for butter, but not so if the value of the skim milk were taken into account, which in late years has
been worth from 25 to 40 cents per cwt, for hog feed, considering the price of purchased meal and the high price of hogs.
Only in 1911 did the
Only in 1911 did the patrons of the cheese factories realize as much as a dollar a cwt.
for the milk drawn to the factories, for in 1910 the price was but 81.57 , which was also the price if made into butter. For the last three years
milk at the cheese factories has been around milk at the cheese factories has been around milk made into butter has averaged about four cents less. The value of milk for either butter
or cheese has been so nearly the same since 1900 or cheese has been so nearly the same since 1900
that there is good ground for suspicion that that there is good ground for suspicion that
butter has not received fair play at the factories. Take 1908, for example, milk for butter fetched 89.96; milk for chesse, 89.85. 1909, cheese,
84.83; butter, 84.49. 1910, cheese, 81.57; but-
ter, 81.32. Apparently these prices were made and manipulated by the buyers, while the prices
of cheese may have been legitimate, it is plain of cheese may have been legitimate,
that the prices of butter were not legimate, but were based on the price of cheese, and seeing that Canada did not make enough butter for its home consumption, and that large quantities were
regulary imported from New Zeaiand and some regulary inpor and none at all exported, it is
from Europe, and
pain that a deeply-aid scheme was planned by plain that a deeply-laid scheme was planned by
the purchasing interests to keep down the price of the purchasing interests to keep down farmer from butter, -oto discourage the cheese business in order to go
going out or the
into into butter-making. The same forces, which en-
ideavored to keep the price of milk for butterdeavored to keep the piking on a level with mik for cheese-making are working in Eastern Ontario In my county of Carleton, milk for cheese-making was scarcely as high for the last three years as it has been
Prince Edward Island, for the price in 1912 was 102.7 cents in P. E. I., while the factories in the County of Carleton did not reaiize quite this
figure. The prices in Eastern Ontario were one figure, The pites in tower than in P. E. I. I think farmers of Prince Edward Island and
Ontario have now been long enough furnishing one of the most nutritive food products in existence,
cheese for the Finglishman at a price much below chese, ior the Englishman at a price muite let
the cost of production. Canadians should tet New Zealand take a spell at this. Work if they
choose to work for nothing. Think of our farmers here furnishing milk in 1900 for 60 cents per cwt. . to make cheese to feed the 10 w -paid
Englishman, but considering the prices of cattle Englishman, but considering the prices or cate
feeds, and also the present prices of by-products of the dairy, as pork, $\$ 1.00$ per cot., prices in
on
ond 1914 is not really as good a price for milk as
60 cents was in 1900, 14 years ago. If milk was worth 60 cents 14 years ago, ir would probably only be the same profits for the miik
1900
Selling milk to a cheese factory at $\$ 1.00$ per cwt. is throwing it away. Assuming that only
$\$ 1.00$ could be realized in making butter instead of cheese, have we not the residual skim milk.
 say, 33 cents per cwt. ? If we only get a
lar a cwt. at the creamery we have the residual 33 cents, which raises the value to $\$ 1.33$. First class bacon cannot be raised successiully without
skim milk, and firsticlass bacon hogs have been selling in 'Ottawa all this spring for $\$ 14.00$ pe ${ }_{\text {cwt. }}^{\text {cot. }}$ $\qquad$
National Dairy Show Sets Dates. The Executive of the National Dairy Show,
held annually in Chicago have decided upon October 22 nd to October 31st, as the period in the purpose to make this show the annual roundup of the herds that have shown in the various circuits of the country and have judges of na
tional and international reputation pass upo tional and international reputation pass upon
them and send the cattle to their home farms for the season in such accredited form as wil establish forever a national roll of merit for
the winners. the winners
In previous years Canadian breeders have ox
hibited at this show with considerable success and it is pleasing indeed to Canadian visitors to seo-such fine specimens of the dairy breeds in competition with their American neighbors. It is not too early now for Canadians to begin to
fit their herds for exhibition at this annual event.

## POULTRY.

Where Forest, Field and Stream are Utilized for Better Poultry
Everyone has read the story of the children in
the wood, but few of us have heard chy tales about chickens in the wood, and yet there is such a story to be told and it is based on fact.
to is no fairy' tale and more than that the chickens are not wild chickens but are thorough ly domesticated, and while the roosters crow just as do the roosters in the farmyard the hens are laying real eggs in real old-fashioned, every-day
straw nests and proclaiming their industrious proclivities just as do the farmyard bidies around our own buck doors. If you wall to see sid
woods swarming with laying hens and proud strutting roosters, go to Norfolk county, find th for you can almost hear the crowing and the cack ling which emanates from the woods onc half mill straight eastward as you stand at the four corn
ers of the village and wonder which pathwult leads to the Norfolk Specialty Farms whe pour acres of soil, some once wet and lat some formerly shifting sand and some formet
most primeval is now iiterally swarmint most primeval is now iteraily swarmine "
poultry, chiefly hens but with some ducks
turkeoves They do things on a large scall."

Norfolk county, and the poultry business is not allowed to lag behind. This farm is arlmirably situated for poultry farming. The wet places
have been underdrained, and where a few years ago water stood in June there now stands one of the most promising crops of oats it has been our privilege to see this year. The lighter land
has been planted to fruit-apples, peaches and black currants, and all around even in the woods are piaced permanent hen-houses, colony houses ly with bred-to-lay Barred Plymouth Rocks, single-combed White Leghorns and single-combe
Rhode Island Reds. The ken that lays is the hen that pays, and these hens do both. Twentyfive hundred layers roam about seeking insects which they may devour, and incidentally taking
a spear of grass here and there. Besides what a spear of grass here and there. Besides what
they pick they are now being, ied corn, wheat and rolied oats in a mixture from hoppers. Diagonal-
ly across the farm runs a small stream y across the farm runs a small stream fron
which most of the poultry may obtain water and in which the large flock of Pelkin ducks spend
a great part of the time. The location is suit.
able.
Hens make their homes in some forty-three
colony houses which are scattered through the woons, around the buildings, and many of which
will soon be set on either side of the smat will soon be set on either side of the small
stream, and the young chickens will have the run stream, and which is planted adjacent to the creek. Chickens do well in corn. It provides
shade and protects from hawks and crows shade and protects from hawks and crows. In the maiority of the laying hens make their abode. At first Leghorns were placed in the woods hut
they soon became wild. and consequently were removed to pens nearer the house and harn, and the houses in the woods were filled with hreathe
lay Barred Rocks of a quiet disnosition. These hens were admirably suited to their new condi-
tions, and made themselves right at home. Nuring the hot summer weather, from which these
heavy hens often suffer and become lazy, the hens of the wood may be seen busily turning over the fallen leaves and leaf mould and help-
ing themselves to all the forms of life found
thereunder. The woods is quite thick and is

Orth live chicks. In the 1,500 -egg manine no hatch has been put through which did
not bring forth at least 1,000 chicks. Several smaller machines are run with equally good if
not better success. And withal there has been not better success. And withal there has been
very little loss from white diarrhoea or other chicken ailments. Free range and proper feeding must have done much to keep the birds
healthy. The whole thing is poultry under natural conditions. Besides the hens
are kept, and eggs from these have been in such demand that few have been retained for hatching A flock of some twenty-five bronze turkey hens Eggs from these have been sold as fast as produced. It is a big plant, but is not growing
fast enough to supply the demand made upon it. over 5,000 chicks sold, over 60,000 eggs shipped after day makes the superintendent of The Norfolk Specialty Farms. E. F. Montgomery, a very husy man, but he is busy at a business he likes and is a worker on this place and the busy business
of producing eggs coes merrily on dav after day while the oats grow rapidiy in the
front field, and the corn fairly iumps ahend on front field, and the corn fairly jumps ahead on
the back field with a younc orchard making al most a phenomenal growth just hack of the
barns, and in the midst of all this some ten colonies of hees are ready to swarm into more colonies to tertilize the funit hiossoms when the
trees reach bearing age. Highly specialized ayriculture is an interesting and profitable busi-
ness, and poultry, as the leading specialty, is
one which requires skill and steady application.

## HORTICULT URE

Gooseberries One of the Moneymakers

While the production of some kinds of fruit, especially those requiring least labor is seemingly on a par with the

Pekin Ducks some six feet by In it are placed colony houses few growers report profits in the vicinity of $\$ 110$ and four feet at the lack, six ore are eight feet per acre after deducting the initial costs, taxes, perman feet. Besides these we noticed several This is a fair remuneration considering all the feet high pens some twenty feet square, four costs and overhead charges have been paid. the center, with and back and seven feet high in Gooseberries, of course, are not outstanding as some the same style only twice as long. These hold 100 and 200 hens respectively. It is aimost surprising how these hens take to life in the woods. Theirs seems to De one continual
picnic, but their summer home is also their winter quarters, and while happy and healthy they are busy turning out the eggs which make them last winter the hens on the farm averaged from fall to spring over twenty per cent. egg production daily, or, in other words, eggs were got
from twenty per cent. of the 2,500 hens every day during this time. This is a record not hens are being kept. The woods seems to be a good place for eggs. a pood trade is done in day-old chicks, upwards of 5,000 having been shipped previous to
our call last week, and of that number only two and ready to and ready to worward and make money fo
their now owners. The chicks seem lively and alert, and there is such a demand, not only for altogether impossible to keep it satisfied. Eggs Speaking of matime fertility there is a fand point fith treed to he learned from this With iree
(ali). mated with twenty-five females
fertility other lines that are lagging behind and do not meet the re
quest of the imme nediate consumprs that of the jam and
canning factories. These are the pro-
ducts that return fair profits, and since
they equalize
$t h_{\mu}$ labor over the bearing season when fruits are coming on, there appears
little reason why
why berries now much
sought after should not occupy a part of
$t h$ plantation. t he plantation. ing to the front as are course, are not outstanding as are now being used more than in the past. Gooseberries are not so particular ahunt the character of the soil upon which they grow as
are many other fruits. One thing, however, they do wish and that is a cool soil which supplies a large amount of moisture. They are shallow-
rooted growers and usually a sandy-loam soil rooted growers and usually a sandy-loam soll
with a heavy subsoil about one foot from the wirface will give best results. They requine an abundance of moisture, but the soil in which they grow must not contain superfluous water. Sta 1 in ing water on soggy land will preclude the growth
of most any kind of fruit. Northern slopes are often desirable and although most crops require an abundance of sunlight, the gooseberries must be protected from the direct rays else scalding and mildew will be prevalent and injurious. T", an be nrevented to a certain extent advocate the planting of peaches or other tree fruits in confunction with them and this practice, besides protecting the gooseberries from inj
to them, adds profits to the acnes.
to them, adds profits to the acnes.
Gooseherries start to grow quite early in the snring and if the statting be done in the fall thenspring and if the setting be done in the fall on-
siderable growth will ensue in the early spring and time also may be saved. The row, system is
 the plants are set four feet apart in rows six the plants are set four feet apart in rows six
feet apart. This requires about 1,800 plants per

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acre. The common practice in pruning in this Minister of Agriculture to enter into agreements
and other countries is to allow the gooseberries to assume the bush form, but little pruning need ception of cutting the growth back to strengthe the various fruit spurs all along the branches. The fruit is produced on year-old wood or on spurs produced during the previous year and
bearing this in mind the pruner need bearing this in mind the pruner need only take
out that wood which is three or four years old, allowing it to be replaced with younger shoots.
If it has grown berries for two If it has grown berries for two or three years
its vigor has been dissipated and it is advisable to replace it. The practice of thinning out the
head of the bush in order to admit sunlight and force larger berries is wrong for it usually
results in scalded fruit. There must be foliage enough to protect the small berries from the sun
else disastrous results will follow. Autume else disastrous results will follow. Autumn and
early winter is the best season for pruning and
care should be taken then to cut out all the weak young shoots and cut of cut out all the branches near the 9 round that a good circulation may exist
and the berries be kept clean. The two strains of berries commonly grown
are known as American and English varieties.
The jam factories are taking large quantities the English varieties from which they produc heir pulp, but these kinds are quite subject to
mildew, and unless extreme care be taken considerable loss results. The American varieties
do not grow so large, neither are they quite so susceptible to mildew, but many growers now
prefer to put the extra care and expense on the ields In the American variecties the larg Downing, Red Jacket and Swift's Improved are the ones commonly grown, but most favor is
lavished on the Pearl and Downing. The Fed
lacket is he Fnglish varieties Whitesmith, Keepsake and Industry have been the yielders, but Whitesmith and Industry are the ones making up the larger
part of all gooseberry plantations. They are good yielders and of their kind the freest from

## FARM BULLETIN.

Agricultural Legislation in New Brunswick.
 1914 session and the Agricultural Department is whing out to greater activities
the Provincial Treasury are not agriculture from than in previous years there are grants for the Farm Settlement Board, for Immigration and for Fxhibitions which have such a direct bearing on
agrieulture, thus they may be classed agricultural expenditure and the Dominion subsidy for agricultural education comes in to relieve the Provincial appropriation of that phase work for stock improvement, seed competitions, agricultural societies, poultry raising, etc
For the present year the Dominion subsidy covers most of the salaries for the Departmental staff engaged in educational work. It includes
the Provincial Horticulturist and three assistants as well as various temporary assistants used in Women's Institu the Farmers' Institute work, the tural Schools, the Provincial Animal Husband-
man, the Poultry' Superintendent, the Provincial Entomologist, the teachers on the farming special trains and other help of this nature are paid from this fund.
The appropriation for the Provincial Treasury
is made up of the following items.
s made up of the following items.
$\begin{array}{ll}\text { (irants to Agricultural } \\ \text { Superintendent of Agcl. } & \text { Societies, } \\ \$ 16,500 \\ \text { Socies, } \\ 1,000\end{array}$ $\begin{array}{lll}\text { Salary of Minister of Agriculture, } & 1,000 \\ 2,100\end{array}$

Grants to Butter and Cheese
Factories, Encouragement of Dairying, Dairy Schoo
Maritime sociation, Stock Breeders' AsEncouragement of Horticulture Encouragement of Stock-raising Farm Settlement, .................. Ftanding Crop Competitions

With the Minister of Agriculture of Canada as to
he expenditure of the Dominion Subsidy for agriculture
An Act dealing with tuberculosis in, cattie was Iso passed. This law makes it a criminal offence With tuberculosis, except under a special permit from the Departmext of Agriculture. It a also
Inakes the distinction or obliteration of marks laced on tuberculous cattle by an inspector, a of the law. provides penalties for the infraction
age the settlement of farm lands was also passed This Act places the Farm Settlement Board under
the direct control of the Minister of Acrioul authorizes the Board to borrow of Agriculture, farms upon easy terms and makes certain condifarms must comply
Agricultural Societies of co-operation among the which gives the society the power to purchase
fertilizer ingredients and to arrange for the importation, warehousing, distributing, etc. to any
arriculuaral society, and when authorized by
Ordur-in-council Council to undertake and carry on any othe the farming industry to obtain of advantage to incorporated bank within the Province and to
pledge and hypothecate such of its property may be necessary or an incident to financing said each year with the Department of Agriculture filed or before the first day of January. Annual meetand the Association has the power to pass suc hy-laws as it deems necessary and advisable for
the management and control provided that no such by-laws shall become effective until ing, except such as may be necessary to the effective organization of the society. The Presior substitutes duly appointed which shall pay the
annual fee required by the by-laws of the Associaannual fee required by the by-laws of the Associaelected
members of the Association.

## The Ormstown Show

The fifth annual exhibition, held under the auspices of the Live-Stock Breeders' Association of the District of Beauharnois at Ormstown, most successful show ever held in this rar the stock breeding centre, and one of the most suc cessful stock shows ever held in any part of the Dominion, and proved, if any further proof was needed, that the big drawing card at any exhimost continuous rain the attendance was not al to that of former shows; nevertheless the total attendance went well up in the thousands, and those present were well repard in the splendid program of events, which, besides the breeding classes of horses, cattle, sheep and swine, inevents, single and double high steppers, tandems, lady drivers, pony contests and hurdle jumping In the entry list were 324 horses, 350 Ayrshires 200 Holsteins, and 25 Jerseys. The swine ex hires was most creditable, and included Yorkshires, Berkshires, Tamworths, Chester Whites sented by Jerseys. The sheep exhibit was repre Hampshires, Southdowns and Dorsets. A special prize for best pen of any breed went to a pen of
Leicesters exhibited by John Purcell, of Hunting Leicesters exhibited by John Purcell, of Hunting
don. Ayrshires made an exhibit unequalled at any
previous show in the history of this country, an exhibit that only the great Councies of Chateau had a big entry, and keen competition that taxed the skill of the judge, D. Drummond, of the R.
O. P. Branch of the Department of Agriculture, O. P. Branch of the Department of Agriculture,
O. Ottawa. In times champion Hobsland Masterpiece Mmp. Second went to G. H. Montgomery, of Phillipsburg, Que., on Auchenbrain Seafoam Imp.
and third went to J. J. Logan, of Howick, Que., and third went to J. J. Logan, of Howick, Que.,
on Netherhall Sir Louglas $\operatorname{Imp}$. Three-year-olds showed rare quality. First went to J. H. Black,
If Iachute, Que., on Hobsland Burnside Imp of Lachute, Que.. on Hobsland Burnside Imp,
Second to R. S. Pringle, of Huntingdon, on Second to R.S. Pringle, of Huntingdon, on
Masterpiece Esisign. McMillan \& Leggitt, of
Huntingdon, won the two-year-old class on


Hector Gordon, of Howick, on Netherton. Lochinor; second, to W. F. Kay,- M. P., Phillipsburg,
on Beecham Surprise; third, to R. R. Ness, on
Humeshaugh Sol Humeshaugh of Burnside. Junior yearlings, went,
first, to J. H. Black; second, P. D. McArthur, of
North Georgetown; Quen Aged cows in milk had an entry of 15 of the world's greatest, the highest honor among which
went to the big, faultless went to the big, faultless, Lessnessock Pansy
2nd Imp., the entry of Hector Go:don; second to, Barcheskie Lady of Hector Go:don; second,
G. Haret Imp., the entry of G. H. Montgomery; thirg, to Auchenbrain Whin-
flower Imp., the entry of J. J. Logan flower Imp., the entry of J. J. Logan. These times, and still left some rape good ones of three-year-olds in milk. First, went to W. F. Kay; yeard, to J. P. Cavers, of Ormstown. In two-
y. Ness, of Howick, captured first and J. P. Cavers, second, and W. P. Montgomery, fourth. Special for four best cows in
milk went, first, to R. R. Ness; second, to Hecor Gordon; third, to J. P. Cavers. Aged cows
dry, McMillan \& Leggitt, first, on Auchenbrain Bunty Imp.; W. F. Kay, second on Buchenbrain
Daylight Imp.; R. R. Ness, third on last yeskid Daylight Imp.; R. R. Ness, third on last year's
champion Broomhill Flora Imp. Dry heifer two
years: First, went to Sir Montague Allin; secyears: First, went to Sir Montague Allin; sec-
ond to J. P. Cavers; third, to Hector Gordon Senior yearling: Hector Gordon, first; J, P. one sire First went to, th. P. Cavers, on the get
of Burnside King Cre on the get oo Netherhall Sir Dir Douglas; third, to
R. R. Ness, on the get of Masterpiece. In the R. R. Ness, on the get of Masterpiece. In the
graded herds there were eight lots: first, went tip
Hector Gordon Hecto to R. R. Ness, and fourth, to McMillan ; Leggitt. Championship for best pull any age
went to R. R. Ness, on Masterpiece. Senior female championship went to McMillan \& Leggitt,
on Auchenbrain Hattie Imp. Junior female cham pionship went to D. Ness.
Holsteins
Holsteins.-Individual excellence was most steins. The awards were placed by Prof in almost every class with the high stange entry quality maintained throughout made his anything but an easy one. In aged bulls farst Two-year-olds Neil First, wangster, of Ormstown.
of J. J. Alent McRae, of Howick, and second, to N. W. P. J. Sally, of Lachine Rapids; second and third, o. A. Younie, of Tullochgorum. 'Aged cows in milk: First, second and fourth, went to Neil Sangster; third, to A Younie. Three-year-olds:
irst, P. J. Sally; second, W. McRae; third, N.
 . Sally; second, N. Sangster;third, W. McRae Four cows in milk : First. N. Sangster; second, . McRae. Both the senior and junior female championships went to P. J. Sally.
Horses.-In the large dales made considerable over half the entire num dates made considerable over haly the entire num.
ber. Aged stallions, imported, had an entry of
four. first four: first going to F. Ness \& Sons, of Howick
on Sir Spencer; second, to John McGerrigle, Ormstown. on Baron Archie; third and fourth, to Dr. D. McEachern, of Ormstown, on Fyve Time
and Favorite's Own. Three-year-olds had but one and Favorite's Own. Three-year-olds had but one
entry, Bondies Pride from the Howick stables of entry, Bondies Pride from the Howick stables of
R. Ness \& Son. Brood mares with foal by side:
Dr. D McFer old D. McEachern, first and second. Three-year-
ollies : First, R. Ness \& Son; second, Dr DMceachern; third and fourth, N. Wagg, of Claretries of Dr. Two-year-old Fililies went to the enbest stallion, imported, went to R. Ness \& \&on
on Sir Spencer. Championship for best Can on Sir Spencer. Championship for best Can
adian-bred Clydesdale stallion went to G. H. Montgomery, of Phillipsburg, Que., on Sir Rodger by Sir Spencer. Championship for best Can
adian-bred Clydesdale mare went to R . Todd, of Geneva. Que., on Aberdeen's Grace by Imp. Aber deen. Championship for best Hackney stallion Narcissus, Imp. Heavy-draft teams, imported : First and
fourth, R. Ness \& Son; second, Dr. D. McEachern third, J. C. Steele. Heavy-draft team Canadian bred : First, W. W. Pringle, Huntingdon; second

President G. C. Creelman, of the Ontario Agricultural College, is to be one of a party of fifteen from Canada and the United States, to visit Australia, New Zealand, Japan, China and
the Phillipine Islands during the coming season. Dr. Creelman goes upon invitation of the British Association for the Advancement of Science to
Toronto University has conferred the honorary degree of D. Sc., upon Frank 'J. Shut, Chemist mental Farms, and the honorary degree of L.L.D pon President Bowles, Chancellor of Victoria

This with other salarics and expenses brings the

1. Act was passed to authorize the Provincial

## On Being "Cordial."

 By Peter McArthur. There are jokes everywhere if we could only most unexpected place-the financial page of a through the pages to pass the time when my eye
foll on the Annual Report of the "Brazilian, fell on the Annual Report of the 'Brazilian
Traction, Light and Power Company, Limited.' Traction,
Knowing that this is one of Sir william MacKenzie's far-flung enterprises I decided to read the riport so as to see how the good man is getting along with some dry reading, but befor I got through I was rewarded. Just, at the end I found this deliggttful paragraph.
The Board also have pleasure in stating that the relations of the subsidiary Companies with
the Government oficialis, both Federal, State and Municipal are of the most cordial character.
Can you beat that? There is a hint to the ohy Canadian investor that Sir William stands well with the Brazilian Governmen with Govern-
does with our own. Standing in wit ments seems to be a very important feature of his method of financiering. The C.A.R. bon guarantee : hows, that his relations with th character." I like that word "cordial." seems to bp just the word we need to describe his methots. It is derived from the Latin word "Cor"-the heart. Sir william puts heart into
his promotions. He makes the right people love his promotions. He makes the right people
him and everything else is easy. On looking it up in the dictionary I find spveral illuminating quotations that show the use of the word. How
would this from Matthew Arnold do as a would this from Matthew Arnold
description of our greatest financier?
"That comely face, that cluster'd brow,
That cordial hand, that bearing free, Ihat cordal
That seems about perfect. Sir william certainly has a "cordial hand." In fact I have hear people who are not purists in the use of Eng1:s
say that he is a past naster of athe say that he is a past master of "The
Ghad Hand", that great asset of the successful lobbyist. I wonder if that was what Matthew Arnold had in mind? Farther on in the diction ary I find another quotation that seems to cast more light on
Chaucer says
. For gold in physic is a cordial. That seems very significant. It is well-known
that there is nothing like gold for 'establishing "cordial relations
Now that the C.N.R. proposals have reached
will also be "cordial." Having a Liberal major-
ity, and judging by the attitude of the oppusition, one might expect it to be hostile but as a
philosopher once I remarked philosopher once | remarked "Dey and tises "cordial relations" with governments one hardly knows what to expect. Still I should like to whisper to our "Elder Statesmen" that there has been iar less fark abouk the Naval Appropriations for the consideration of the people. Of course there was considerable political wrath at the time, but the Empire still stands and the ing as it did. Perbaps if they referred back the C.N.R. proposals. Canada would weather the storm. Things might not go to smash and some "cordial" gentlemen might take some of their Brazilian, Mexican and inamayan i prope the Senate will insist on a full verification of the accepted story about the building of the Canadian Northern. It seems too good to be true, but if it is
entirely true the fact should be made clear to everyone. If MacKenzie and Mann have put through the railroad without taking a cent of pront, and they say they did, the story should be written in Jords of one syllable so that our chicaren may ideals of public service that inspire these remarkable men. I should like to try my hand at such a story myself. I think I could embellish it with Tother Goose rryymes and it I sould show that they did the great work while living on "curds and whey" and that when it was done they sang like , Lttte Jack Horner, 0 what a lood boy am I.". An I would show that at al tical partizs. And yet I couldn't do that, for "cordialp" is not 'a word of one syllable? Still t minder if that short and ugly word apraic: would 't cover the situation

Some of you may remember that when first discussing the C.N.R. proposals I spoke of the wis-
dom of the ancient Greaks in dealing with contentious questions of this kind. ' They always took care that the people were occupied with something else when they tried to put through a hig schem 3 . Whether they did it intentionally or
not our government has done the same thing not our government has done the same thing
The dehate of the C.N.R. "synchronized" with the soring rush of work and I find that very few people have been following it. I followed it be
causs my business makes it necessary, and I even caus my business makes it necessary, and I even
went to the trouble to get the official report went to the trouble to get the official report
the debates so that I might get ${ }^{i}$ ine speeche
without having them garbled by the party papers. Naturally when I went to the village the othe day-for the first time in some weeks, Ithought
that peoplo would 'be interested in what was going on. Meeting a prominent Liberal, I a nim, his opinion of the bond guarantee, but
didn't know anything about it. Instead he didn't know anything about it. Instead he talk
ed to me for half an hour about a new kind ed to me for hali an hour abot a
commercial fertilizer he is trying out this spring Shortly afterwards I met a leading Conservauiv and tried to interview him,
"Mack enzie and Mann",
"MacKenzie and Mann" he said in a dazed sort of way. Aren't they the people that the
So-and-So boys are working for? It seems to me that I did see sompthing in the papers about some grant they are getting, but I was so wis.
with the seeding that I didn't read it,", with the seeding that I didn't read it." A.
then he began to tell me about the trouble was having with men who were putting in a til drain for him. So 1 had ampie proof that the Greek method is the right one when a man is estanis If the peonle were not so busy partu they would object to their representatives bein they would object to ther

Excursions to the Agricultural College.
The following is a list of dates of excursions the Ontario Agricultural College, Guelph, to une, 1914. We E \& w. Peterboro and Durham, E. and W. Lambton. Frid., June 12 no excursions. Sat., June 13, Lincoln, N. \& 1 Bruce \& N. Grey, W. York. Mon., 'Iune
Halton, (C.P.P.). Tue, June 16, E. \& W. Elgin N. Wentworth, N. York,' E.' Simcooe, Halton (G.T.R.). Wed., June 17, S. Wentworth, E S. \& W. Br. Simcoe. Thurs., June 18, E. York and S. Bruce, W. Simcoe, S. Simcoe. Sat., June ${ }^{20}$, E. Perth, Dufferin, Welland, W. Huron \& S. Oxford. Tue., June 23, N. \& S. Waterloo,

More Agricultural Offices Opened The District Representative system is being
further extended this year through the appointment of four men graduates of the O.A.C., to four new counties. ${ }^{\text {R. L. Vining, B.S.A., goes }}$ o Hamilton in Wentworth Co.; H. R. Hare, will be stationed in Halton Co.; J. E. Lattimer will
pen an office in Port Arthur, and P. Stewart is open an oftce in Port Arthur, and P. Stewart is
sent to Kenora. Other appointments to fill vacancies are I. S. Knapp to Galt, Waterloo Co.; Nixon to Liskeard, Temiskaming

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

## Toronto.






UNE 11, 1914
THE EARMER'S ADVOCATE.

## THE ROYAL BANK OF CANADA

Capital Authorized - $\$ 25,000,000$ Reserve Funds Reserve Funds
Total Assets
$13,000,000$
$180,000,000$
HEAD OFFICE: MONTREAL
Branches throughout every Province
of the Dominion of Canada.
Accounts of Farmers
Invited
Sale Notes Collected
Savings Department at All Branches City hides, No. 1 inspected steers and
cows, 14c.; No. 2, 13c.; city butche ides, flat 14c.; country hides, cured
 6c.; horse hair, per th., 37 c c. to 39 c . horse hides, No. 1 , $\$ 2.50$ to $\$ 4.50$ o, tal.
ow, No. 1, per $\mathrm{m} ., 5 \mathrm{c}$. to 7 c . Wool, nwashed,

COUNTRy phoduce

Butter.-Receipts have been liberal ausing prices to be easy. Creamery ds, 24 c .; separator dairy, 23 c . to 24 c . Egge.-The market for new-laid egg Honey.-Extracted, 9c. per Ib.; combs Beans.-Imported, hand-picked, $\$ 2.40$ anadians, hand-picked, $\$ 2.40$; prime | Pag, track. Toronto, 90 c. $\quad$ New Bruns |
| :--- | wick Delawares, $\$ 1.00$ to $\$ 1.10$ per bag,

rack, Toronto, track, Toronto.
Poultry.-Cold - storage is now being
used, and prices are quoted as follows : used, and prices are quoted as follows :
Turkeys, 21 c . to 25 c . per tb.; geese, per
to 14c git Oc.; chickens, per tb. 17 c , to 23 c hens, per 1t., 14c. to 17c. Spring
chickens are coming forward in small lots, and ar
b. dressed.
frutts and vegetableis,
Receipts of foreign fruits and vege
ables are large, as many as 150 to 200 car loads arriving weekly on the Toronegetables are being sold at reasonable
rices.
 Cherries, black and red, from Californiay
$\$ 2.50$ to $\$ 3$ per box; grape fruit, 54 's,
$\$ 4.25$ per box: 68 's, $\$ 4.55$ per box; $54{ }^{\prime}$ s. $\$ 4.25$ per box; 68 's, $\$ 4.55$ per box; 54 s ,
$\$ 4.25$ per box; 46 's. $\$ 4$ per box, all Lemans. - $\$ 3.50$ to $\$ 4$ per box; oranges,
Lemer
$\$ 75$. $\$ 3.75$ per box; pineapples, 24 's and 30 's,
$\$ 3$ per box; rhubarb. 25 , per dozen ;
stren


Montreal.


Buffalo.

 hambs sod readily at $\$ 8$ to $\$ 8$ each
according to size and quality. The sup
ply oo calves was
witheraty ranged from $\$ 3$ to $\$ 5$ foral, and ordinary, pricen and
up to $\$ 10$.
and
 pected. Ontario stock sold at $9 \mathrm{gc}$. . pe
D. M., weighed off cars. Somo pr.
slighty 1 lower market for hogs. IIorses. - The market for horses was
unchanged. Horsee weighing from 1,500
to 1, Hon to 1,700 ibs. sold at at $\$ 275$ to $\$ \$ 000$ each,
light draft, weighing from 1,400 to 1 light draft, weighing from 1,400 to 1,-
500 Ibs., $\$ 225$ to $\$ 275$ each; broken
down, old animals, $\$ 75$ to $\$ 127$; and
choicest saddle and carriage animals, choicest saddle an
$\$ 350$ to $\$ 100$ each.
Dressed Hogs.-The market for dressed
hogs was about steady, but demand was
not particularly hrisk. Abattoirdresed not particularly brisk. Abattoir-dressed,
fresh-killed hogs, 12 zc c. to 13 c . per 1 lo . Potatoes.-Supplies were rather limited,
but some imported new stock was being
used used. Green mountains, in car lots
were quoted at $\$ 1.05$ to $\$ 1.10$, in bage
of 90 . were quoted at $\$ 1.05$ to $\$ 1.10$, in bagh
of 90 IDs., while Quebec white stock wap
85 c . to In a smaller way prices range from 150 Honey and Syrup.-Maples syrup in tine to 85 c . for $11-\mathrm{tb}$. tins. Sugar was 9 c to 10 c . per Ib. White clover comb
honey was 13 c , to 14 c . per th.; tracted, 10 c . to to $11 \mathrm{c} . ;$ dark comb, 12 c Eggs.-Supplies were still of fair qualry; demand active. Quotatione Con-
tinued firm, being 22 yc. to 23 c . for wholesale ots of straight-gathered egge and 26 c . for single casee of selecten,
stock; with No. 1, at 23 c ., and No. 2,
at 21 c . to 211 c . at 21c. to $21 \frac{1}{\mathrm{z}} \mathrm{c}$.
Butter.-Grass is now glood, and the
flow of mill is larger, but supplies are said to be lighter than a year ago at firm. Choicest quality creamery sol
at 23 c . to 23 q c ; and finest, at 22 acc. to 2.3c.; while seconds were 22c. to 22 qc c ,
and Manitoba dairy was 17 c . to 18 c ,

Ontarios, 19 c. to 20 c .
Cheese. - The market for cheese wa
Cheess. - The market for cheese wa
fuirly active, but prices were unchanged
 cheese was 11 c c. to 12 c . per 1 lb .
Grain.-The market for oate showed Grain.-The market for oate showed
practically no change. No. 2 Weestern



 and







 mand

## Cheese Markets





## Gossip

See the advertisement elsewhero in thio
issue of the big sales of pure-brod Hive
 Thornton Co., July 8th, 10th, an
21st. For full particulars iook up th dvertisement.

WILL TMPORT SHEET Robt. McEwen, of Byron, Ont., is loay
ing this week for Britaln, and will bo glad to execute any commissions in the purchase of sheep. He would also
after any purchases all arter any purchases already made oid
made through him, and aee them satol
through quarantine. Write or phon through quarantine. Write or phone
Byron, Ont.

Attention is directed to the advertige head of purebred cattle, the property of ell McGugen, R. M. No. 8, Sheddeil Ont. Among the lot are some hoavy
producers, including Queen Bess Calamity, which as a two-year-old gave
12.70 bs. of butter in one wéek three 2.70 lis. of butter in one wék throe
monthe after calving. Daisy Bell Abbe kerk gave 19.24 lbs. of butter in seven days, and over $18,000 \mathrm{lbs}$, of mille in
year. Pearl De Kol Hengerveld, year. Pearl De Kol Hengerveld, as
senior two-year-old gave 14.18 ms. of butter in 7 days. Space does not per-
nit further comment. See the ad. An opportunity to get some good this issue, being the advertisement of the dispersion sale of Rock Bailey's her
which was established in 1889. with foundation of three pure-bred St. LamYoundatife hise Such good bulls as King
burt heifer St. Anns, Mokinas Boy, son of
Hugo of Hugo of St. Anns, Mokinas Boy, son o
Elite of Glen Rouge, and sired by One Hundred Per Cent. and out of Marlor am of Clen Rouge, Columbine's Corona tion King tracing to Coolden Lad an che present stock bull Lady's Jolly

Don. This bull will be sold, and ho | traces on both sides direct to Golden |
| :--- |
| Lad just four generations, back. The | herd is a choice lot and 'all young. Soe date-Tuesday, June 30th. Write to

Union, Ontario, for further particulara. a great sale of Jerseys. At the annual auction sale of imported
Jersey cattle by T. S. Coloper \& Sone Jersey cattle, by T. S. Coloper \& Sone, Pennsylvania, on May 30th, 127 head
were sold for $\$ 81,820$, an average ol
 82.725 for the five-year-old cow Cham-
nion ${ }_{8}$ Gauntlet. taken by Elmendor Farm, Kentucky. At $\$ 2,100$ the four year-old cow, You'll Do Fawn Beauty,
fell to the bid of White Horse Farm. tell to the bid of White Horse Farm.
Twenty-seven of the top femalen
averaged over 81,000 . averaged over $\$ 1,000$ R. J. Fleming.
Toronto, Ont., secured a bargain in the two-year-old heifer Ocean Cowslip fo
$\$ 800$. The demand for bulls was rathe limited, and the highest price for that
class was $\$ 810$ for the yearling Sarah?


The Poet and His Song By Paul Laurence Dunbe A oong is but a little thing, And yot what joy it is to sings; and when at eve I long for rest, When corse come home along t As night, the shepherd, herds his stara mbere are no No lipy to litt a word iof prais Bith tetri, with faith unaltering. What matter yon unheeding throng? They can not feel my sipitit's spoll. Since lite is sweet and lover is iong,
${ }^{4} \mathrm{y}$ days are never days of ease. Thinl my ground and prune my trees, When ripened gold is all the plai put my sickle in the grain
labor hard, and toill and ${ }^{1}$ Iabor hard, and toil and sweat. But even while my brow is wet,
I sing $m y$ song and all is well.

Sometimes the sun, unkindly Mry garden makes a desert spot sometimes a blight upon the tree Takes all my fruit away from mo:
And then with throes of bitter pain Rebellious passions rise and swell But-life is more than fruit or grain,

Browsings Among the Books.

## On Pees.

[From "Locusts and Wild Honey," by John Burroughs.J. time of it. Their foothold in the hive lis very precarious. They look like the
giants, the lords of the swarm, but they are really the tools. Their lourd.
threatening hum has no sting to hack it up, and their size and noise make them only the more conspicuous marks for the birds. They are all candidates
for the favors of the queen, $a$ fatal for the yavors of the quen, a
Relicity that is vouchsafed to but one. Fatal, I say, for it is a singular fact that the fecundation of the queen costs
the male his life. Yet day alter day the male his life yet day after day
the drones go forth,
threading the the drones go forth, threading the
maze of the air in hopes mo meting
her whom to meet is death. The queen her whom to meet is doath. The queen
only leaves the hive once, except when she leads away the swarm, and as she
makes no appointment with the male. but wanders here and there, drones
enough are provided to meet all the enough are provided to meet all the
contingencies of the case. Toward the end of the season, say in July or August, the fiat goes forth that
the drones must die; there is no further the drones must die; there is no rurther
use for them. Then the poor creatures, how they, are hudded, and hustled about, trying to hide in corners and
by-ways! There is no loud, defiant by-ways ! There is no loud, defiant
humming now, but abject tear seizes humming now, but abject fear seizes
them. them. I have soon a dozen or more of them wedge themselves into a samall
space between the glass and the combl space between the glass and the comb,
where the bees could not get hold of where the bees courd not get hold of
them, or where they seemed to be overthem, or where they seemed to be over
looked in the general slaughter. Thes Till also crawl outside and hide under
But sooner or or the edge of the hive. But sooner or
later they are all killed or kicked out. later they are all killed or kicked out
The drone makes no resistance, except t pull back and try to get away; bul (putting yourself in his place)with one
bee a-hold of your collar or the hair of bee a-hold of your collar or the hair or
your head, and another a-hold of each arm or leg, and still another feeling fo
wist-hands with his sting, the

Heen is made not tact also, that the stiletto upon her unhatched sisters. queen is made, not born. If the entire Cases have been known where two quens
population of Spain or
Great Britain
issued at the same time, when a mortal were the offspring of one mother, it combat ensued, encouraged by the workmight be found necessary to hit upon ers, who formed a ring about them, but
some device by which a royal baby showed no preference, and recognized the some device by which a royal baby showed no preierence, and recogized the
might be manutactured out of an ordin. victor as the lawful sovereign. For might be manuaccured out of an ordin.
ary one, or else give up the fashion of foyalty. All the bees in the hive have comnon parentage, and the queen and the worker are the same in the egg the oueen cellis is always vertical in the cell and in the tood; the cell while that of the drones and workers. is geng much larger and the food a which fact may be a part of the secret peculiar stimulating kind of jelly. In The notion has always very generally
ertain contineencies such as the loss of prevailed that the queen of the bees is the quen with no eggs in the royal an absolute ruler. and issues her royal
cellis, the workers take the larva of an orders to willing subjects.
Hence

"Church Parade" on Wilhelm Strasse.
ordinary bee, enlarge the cell by taking Napoleon the First sprinkled the syn
in the two adjoining ones, in the two adjoining ones, and nurse it and stuff it and coddle it, till at the that bore the arms of his dynasty; and end of sixteen days it comes out a in the country of the flaraons the bee
queen. But, ordinarily, in the natural was used as the emblem of a people course of events, the young queen is sweetly submissive to the orders of its sept a prisoner in her cell till the old king. But the fact is, a swarm of bees
queen has left with the swarm. Not is an absolute democracy, and kings and only kept, but guarded against the despots can find no warrant in their mother queen who only wants an oppor-
tunity to murder every royal scion in lunity to murder every royal scion in prisoner and the other at large pipe deshrill, fine trumpet-like note that any ear will at once recognize. This chalenge, not being allowed to be accepted by either party, is followed, in a day
two, by the abdication of the old queen
she leads out the swarm she leads out the swarm, and her suc ing her time, abdicates in favor of the
next younger. When the bees have decided that no more swarms can issue,
the reigning queen is allowed to use her example
entirely
ent workers. They the great mass, the and foresight of the colony, and adminand lts allairs. Their word is law They regulate the swarminy must obey the signal for the swarm to issue from the hive; they select and make ready queen to it the woods and conduct the The peculiar office and sacredness is the mother of the swarm, and the the reigning queen is allowed to use her and not as a sovereign. She is the

sole female bee in the hive, and the sowarm clings to her because she is
their life. Deprived of their queen, it all brood from which to rear one he swarm loses all heart and soon honey in the The common bees will never use their
sting upon the queen; if she is to sting upon the queen; if she is to be
disposed of they starve her to death and the queen herself will sting nothing but royalty-nothing but a rival queen. The queen, I say, is the mother bee is undoubtedly complimenting her to
call her a queen and invest her with regal authority, yet she is a superl creature, and looks every inch a queen.
It is an event to distinguish her amidst the mass of bees when the swarm alights; it awakens a thrill. Before you
have seen a queen you wonder if this or that bee, which seems a little
larger than its fellow is not she, but larger than its fellow is not she, but
when you once really set eyes upon her when you once really set eyes upon her know that is the queen. That long,
elegant, shining, feminine-looking orea, ture can be none less than royalty How beautifully her body tapers, how her movements
The bees do not fall down before her, but caress her and are her person. The drones, or large bees too, but coarse
are ing. There is but one fact or ingiden in the life of the queen that looke im-
perial and authoritative:
Huber relates that when the old queen is restrainod in her movements by the workers, and pre
vented from destroying young queems in their cells, she assumes a peculiar at
titude and utters a note that strike titure and utters a note that strikes
every bee motionless, and makes every head bow; while this sound lasts not bee stirs, but all look abashed and
humbled, yet whether the emotion is one of fear, of reverence, or of sympathy
with the distress of the queen-mother, is hard to determine. The moment the roval she advances again toward and insult cells the bees bite and pul

Travel Notes
FROM HELEN'S DIAP
Wiesbaden, April 20, 1914 Spring's magic wand has transformed light. The shade trees and the decora of trees all over the city are masses greens, delicate pinks,--soft grays, tonder The magnolias are in full bloom, and th little pink umbrellas they call Japanese Thees are thickly studded with flowers.
fruit trees are snow-white with blossoms. and the air sweet with fra grance. Every lane and street and
garden is a lovely bit of color. and as for the parks !-they are dreams
beauty. In front of the Kurhaus is stretch of level ground called the Bo ing Green; although it is no longer a
bowling green the old name still clings to it. Now it is a gorgeous dower
garden. garden. The flower beds are of all tions most artistic. Just now the tulip is the predominating flower. There
seem to be tulips of every color-and such masses of them. There is one
huge bed of vivid crimson tulips in the center of this garden which makes everybody "oh!" about how many flowers were in that
particular bed. and decided there must be at least four thousand: and each fower perfect, We wondered at the unaz-
its neighbor. Weld that the
ind uniformity, and were told ing uniformity, and were told thal
secret was that the fowers were all in
pots, although they looked as if grow

JUNE: 11, 1914
ing right out of the ea any of the flowers wither. As soon as
substituted. and in ones are brilliancy of the floral effect is retained. But think of four thousand crimso shining upon them! Gorgeous seems al
together too mild a word to express such a vivid sight.
They even grow trees in boxes in
Wiesbaden. I saw a family Wiesbaden. I saw a family of them be
ing carted into town one day-nice little trees they were, too, with close foliage trimmed in the shape of a dome. A few hours after reaching town those seven
trees were growing on one trees were growing on one of the public
squares, cast 1 ng a welcome shade on the glaring pavement and looking as if the had been there for years and years, and a week afterwards they suddenly burst bloom, an
of green.
Talking about trees reminds me of that
wonderful hir belt of horse-chestnut trees which unites Wiessaden with Biebrich-on-he-Rhine, a distance of three miles. There is a double row of trees on each
side of the broad avenue all the waymagnificent trees too, and just now at
the height of their beauty, glistening with white cones. One may walk all der an arch of leaves. Many of the wealthiest Wiesbadens have their villas
allong this avenue. Near Biebrich on this same avenue is
 ike any factory I ever saw before; it looks more like a millionaire clubhouse.
The entrance hall is quite magnificent, and fairly smacks of wealth. Every afternoon parties are conducted through he establishment, down into the cellars nd wine vaults. through the bottling
coms, and all the rest of it rooms, and al the rest of it. It all
seemeded very wonderful to me, but I
couldn't help thinking what a lot of ter-dinner speeches and after-dinner headaches were. stored up in those huge
vats and those millions of bottles. One of the interesting features of the place as the dining-room for the employees: magnificent large hall with tiled floor
nd frescoed walls and gold ornamentalon, and even a fine orchestrion to lined. Aiter the visitors have completed ye tour of the building they are polite
$y$ received in luxurious reception-rooms ly received in luxurious reception-rooms
by several very urbane and charming sy several very urbane and charming
gentlemen, and treated to as much
champagne as they care to drink. champagne as they care to drink.
Now that the weather is warm the Now that the weather is warm the
Kurhaus concerts are given in the open. Kurhaus park every afternoon and evening to listen to the band. During the
concert every seat is occupied, the estaurant tables are full, and hundreds most peculsur and amusing sights. All nationalities are represented, and they
bring their manners and habits. and style bring their manners and habits. and style
with them. Just to sit and watch the passing show is amusement enough. Yes-
terday the most conspicuous person on terday the most conspicuous person on
exhibition was a very old lady-she must have been nearly eighty-who was be-
ing wheeled around in an invalid chair by a swarthy-faced man in a strangelooking uniform. There was also a
nurse in attendance. The old lady was hatless, and had such a mass of snow-
white hair that I suspected it of being a wig; her face was brown and wrinkled,
but her eyes sparkled with vivacity and but her eyes sparkled with vivacity and
interest. But it was what she was doing that made people stare so much and was she doing? She was smoking cigarettes; smoking them fast and
furiously, and chatting away merrily to the nurse between puffs. They said she was a Spanish lady of high degree. many I came across a German proverb bout tobacco the other day which may
perhaps explain why that weed is so popular here. The proverb runs: "God
first made man, and then $117 e$ made woman: and then He felt sorry for iman
and made tobacco." "e
The Wiesbaden "season" is now at its The Wiesbaden "season" is now at its
height, and the city is fairly swarming
with visitors; the fashionable, the unwith visitors; the fashionable, the un-
fashionable, the would-be-fashionable, the
ultra-fashionable are all on view-thous-ultra-fashionable are all on view-thous-
ands and thousands of them. The
streers are full of them; the woods are

THE FARMER'S ADVOCATE
money, as their expenses are greate lieutenant in the cavalry must have The most ponul marks (about $\$ 20,000$ ). btaining such a large sum is method of rich girl. If she happens to be er. but attractive, so much the betwill be overlooked if it is backed up by a good fat bank account.
$\qquad$ grand church parade on Wilhelm Strasse an band plays in the park and the peorod panas and down on the benches along the side are filled with spectators. We sat there last Sunday play hile and watched the sartorial diswas as much fun as circus This being a season of gorgeous ribbons, gay hats and fantastic attire, the pavement procession was like a moving style had its representative. in modern skirt" was very much in evidence ambing extreme cases, attracted bo particular


Peasants Returning from Church
> oficers who are angling for heiresses, for in Germany an olticer must marry money
unless he has private means of his own, otherwise he cannot live in the
style his position demands. It is said the proprietor of this particular hotel is
hand-in-glove with the military and when he finds that he has some wealthy English or American young ladies in his the barracks in Mayence: "Have four or
five fine birds here," and the afficers who are waiting for snaps hurry over to make the acquaintance of the heiresses.
If they succeed in catching one, the
If future father-in-law settles up all their
debts, and hands over the sum dedebts, and hands over the sum de-
manded. A lieutenant in the Infantry $\$ 15,000$ ) to his creatit, and a yearly in come of 2,500 marks apart from his
salary. The salary of the junior officers buy their various uniforns and keep
their helmets and buttons polished.

attention. But there were enough exaggerated cases to make observation interesting. Queer how people get used
to innovations ! When the "slit glkirt" first made its appearance it was branded as ugly and indecent; it was not granted one redeeming quality; it was everything
that a self-respecting skirt should not be; they said no nice woman would wear one; they said it was just a \&reak of
fashion that wouldn't last; they said the wearing of such things should be prohibited by law, and that any woman
bold enough to appear on the street in bold enough to appear on the street in
such a scandalous garment should be suck a scandalous garment should be
locked up or clapped into a lunatic asylum. The men said that if women had no more sense than to wear such
foolish-looking clothes that it was quite foolish-looking clothes that it was quite
sufficient evidence that they had not sense enough to vote. This clinched the
matter. But the fashion persisted in spite of the vigorous opposition aroused, and now the narrow slit
skirt causes no comment at all, excep
cussed its merits and
we sat there last Sunday
we sat there last Sunday, shortcomings as Uncle Ned frankly admits that helike te Julia detests it. He declares it is far and away the had for a long time. to be ugly and unmodest.
He says it is much more ball gown with the top left. off, and seys it has so dangerous to health; she seys it has nothing to recommend it ex
cept its economy. "Look at that
seid.
We looked.
The creature designated was a very stout woman with an old face and
young hair (latest fashionable shadel) She wore a striped costume. She wa billowy in outline, and her clothes were
tight to the bursting point when looking at her that disaster was imminent,-that something might sive
way at any moment. She wore a slikitt way at any moment. She wore a silirt
slit nearly to the knee, and at every step a glimpse of thick, shapeless ankles
could be seen. could be seen. Her feet were not of the diminutive kind that poots write sonnet about. but good substantial German
foundations-the kind that are useful o a "Walking tour. "Well," said Uncle Ned, with a twinkte in his eve, "I must admit there ar But still I eling to my assertion that slit skirts are neat and gracoful, of of
course, a woman like that is juet course, a woman like that is just *
freak." "Here's another freak," snapped Aun
Julia. "There seem to be lots of them b or thom built on the was in checks. She we other, and looked is possible worse "Do you consider her a Venus?" aoke Aunt Julia.
' Not
exa what's coming." but, gee whiz ! look A tall, slender lady was coming. Sh was as graceful as the much-quoted luy
everything from the tip everything from the tip of her tal perfection. She was a symphony wa golden brown,-hair, eyes, gown, shoess,
gloves-and she walked with a long, gloves-and she walked with , a long,
easy, graceful stride that hadn't a jerly in "Well-_", admitted Aunt Julia, "o "Course-there are some women who "It" mere matter of individuals and of gooc fudgement, and gootd looks, and good figures, and -"
"It's money,-money inted Aunt Julia.tailor. That's what it a first-clas smart tailor with an architectural sense
and an artistic eye skeleton so cleverly that it pad up tural as life."
"I think it is chiefly think-? "I think it is chiefly a matter of gol
dollars and artistic sense-and also full length mirrors." said Aunt Julla with an air of finality.
Uncle Ned looked at his watch. .,
think it is time we were moving on., said.
So we Joined the procession.
On the wav home we passed the wo man who isn't lame, but always carrien
crutches. She lives in Wiesbaden, and for some time she was. a great puzzle to us-we thought she must be demented but on the contrary she is posseased of quite interesting. It seems she had jealous husband who was very richl. Ho died some years ago. He must have carried his malice and spitefulness into his will, evidently determined his wife should not enjoy life even after he wae
dead. In the will there was elause which stated that his widow could only inherit his wealth on one condition: She must agree to go all her lifo on
crutches. If she refused she would be cut ofl without a penny. Now, waen't that a fiendish will? What a prospect for a strong, able-bodied woman. But she was game,-she consented. What a
pity he doesn't know-but perhapa he pity he doesnt know-but perhapa he
does. Who can tell? Never for a day can the poor woman go without those
crutches, for spies are continually crutches, for spies are continually watoh-
ng her, and if ever she is seen without ng her, and if ever she is seen without
her wooden props she forteits her income. I hope she'll live to be a hundred and fool ant those grasping and ex-

THE FARMER'S ADVOCATE

There are some other local characters
here that are more or less amusing, alhere that are more or less amusing, alis the fat shoo-string pedlar who speak, in fringe. He has shoe-strings wreathed around his neck, dangling from
his arms, and hanging all over the front of his coat. He seems to be all shoo-strings except, his face and his wooden legs;
and he stumps cheerfully along, hopefuland he stumps cheerfully along, hopeful-
ly offering bunches of shoe-strings to people wearing buttoned shoes.
Then there is the hideous little dwart who sells flowers at the
Kochbrunnen corner-bow-legged, pigeon toed, and not noticeably clean. Every day, rain or shine, he stands there on the curbstone with a basket of beauti-
ful flowers, and he does a rattling good business too. You can't mistake him for anybody else, and people buy flowers
from him because they feel sorry for him. His figure is his fortune. Ugliness making a living out of beauty.
And then the chimney-sweeps
would ever expect to see chimney-sweeps wearing a uniform? But they do in
Wiesbaden and a grotesque one it is black, of course, as befits their occupation. They are black from head to
foot; even their faces are black, but that is accidental. The humorous part of
their outfit-the part that makes one smile-is the hat-a high, stiff, plug hat.
It makes the chimney-sweeps look like It makes the chimney-sweeps look like
negro minstrels. And to see them worknegro minstrels. And to see them work
ing up on the roofs of houses with thes high hats on is too utterly ridiculous. wonder if that is why they call them
stove-pipe hats? The name suits the stove-pipe hats? The name suits the
trade, but the hat looks like a joke.

## Hope's Quiet Hour.

A Door of Hope.
I will. give her her vineyard from
thence, and the valley of Achor for a Chence, and the Yosea, ii: 15 .
door of hope.-
Your sorrow shall be turned into joy. Your sorrowi shall

Then, welcome each rebuff
That turns earth's smoothness rough.
Each sting that bids nor sit nor stand sting that bids nor sit nor stand
but go ! ROBERT browning. Perhaps there is no other passage from Browning's works more often quoted
than the one given above. Does not that prove its power of reaching many hearts? We all find trouble in this
world - the word "Achor", world - the word "Achor" means
"trouble" or "troubling"-and our hearts naturally reach out after happiness. We feel that happiness is our birthright. We are not such weak, cowardly crea-
tures as to be unwilling to endure pain, tures as to be unwilling to endure pain,
but hopeless pain is crushing and leads to despair. It is only possible for a
man to "welcome", the" difficulties and man to "welcome" the difficulties and
trials which upset his comfort in the trials which upset his comfort in the
present, if they are full of purpose and meaning, if they are intended to produce
glad results. The paradox, as Brownglad results. The paradox, as Brown-
ing declares, ", which comforts while it ing declares, "which comforts while it
nocks," is that life can be really suc-
ceeding in the very things which look ceocks, is that lie can be realy suck
ceang in the very things which look
most like utter failure. Sorrow does most like utter failure. Sorrow does
not only lead to joy, it is "turned into
joy",-it is the root from which jos joy" - it is the root from which joy
springs. The valley of trouble is the
"door of hope," and fruitful vinevards"door of hope," and fruitful vineyards
the precious, lasting fruits of righteoms the precious, lasting fruits of righteon:
ness-come "from thence." They a
fruits of trouble. But when this wouble is the just
punishment of sin, what then? When punishment of sin, what then? When
we are suffering justly for our misdecds-as the penitent thief on the cross owned that he was-have wr any right to.
pect that such trouble can become al pect that such trouble can beconce "
door of hope? of Achor received its name-a sad enough. You will find it vividly
scribed in the seventh chapter of Joshy scribed in the seventh chapter of doshua
A man had yielded to the sin of
covetousness, and had hidden his spoil covetousness, and had hidden his spoil
in the ground under his tent. The spoil in the ground under his tent. The spoil
of Jericho-the first city won in the of Jericho-the first city won in the
Promised Land-belonged by right to Promised Land-belonged be to be de-
God. The first fruits were to voted to Him. Achan tried to rob God.
and thought that his secret was secure and thought that his secret was secure
ly hidden-a foolish hope. The secret
lin wrought trouble in the whole army
of Israel, and God Himself revealed it publicly.
Swift and terrible punishment
followed.
Joshua said to Iollowed. Joshua said to Achan: "Why
hast thou troubled us? The Lord shall trouble thee this day. And all Israel
stoned him with stones............and they stoned him with stones...........and they
raised over him a great heap of stones aised over him a great heap of stones...
...........Wherefore the name of that place was called, 'The Valley of Achor.' There seemed little prospect for Achan that the terrible valley of sorrow would
prove a "door of hope." As little did prove a "door of hope." As little did
the condemned thie? dream that the cross of agony and shame would open into
Paradise. A wise woman once said to Paradise. A wise woman once said to
King David: "Neither doth God take King David: "Neither doth God take
away life, but deviseth means, that he that is banished be not an outcast from
Him."-2 Sam., XIV, 14. R. V The Him." ${ }^{-2}$ Sam., XIV, 14, R. V. The
Father's love for Achan was not killed. We are often told that "Nature is careless of the individual, but careful of the type." Certainly the Lord of
Nature is not careless of the individual. Even the hairs of your head are numbered. God deviseth means to bring back
His loved prodigal sons. He is not a His loved prodigal sons. He is not a
stern, unmerciful Judge, but a Father running to meet His penitent son-a son who found that the valley of trouble was the door of home
vers she had pursued treated her with scorn and contempt. Then her eyes were opened-like the eyes of the prodiga
when he had lost all his wealth-and she said: "I will go and return to my first
husband: for there was it better with husband: for there was it better with me
than now." Would she be received 'by than now." Would she be received by
Him she had despised and deserted? Yes-strange and wonderful i is the love
of God!-He promised to allure her with of God!-He promised to allure her with
His Presence in the wilderness, to speak His Presence in the wilderness, to speak
to her heart thepe, to change the valley of Achor into a door of hope, until she
could answer Him with a song could answer Him with a song of joy
as in the days of her youth. She should as in the days of her youth. . She should
be given the right to say "Ishi", that is, ".my Husband"'; and God promised to
betroth her unto Himself for ever betroth her unto Himself for ever.
If such unfaithfulness as is here doIf such unfaithfulness as is here do
scribed cannot break the bond which binds the heart of man and the heart of God together, if His sternest punish-
ments are proofs of undying love and ments are proofs of undying love and
intended to bring back those who have intended to bring back those who have
made themselves outcasts, then those
who who are struggling through the valley of trouble need not despair-it is always
a door of hope, always a proof of God's Love.
We must not make the mistake of those
who fancied that a man was born blind as a judgmant for special sin.
Our Lord rebuked them for that
folse notion Very often it is


An Interested Canine Observer.

 cross to bear. God does not
explain to us-as yet-the object explain to us-as yet-the object
of each particular trouble; but of each particular trouble; but
it is certainly intended to work out our eternal goo od. It is
ouver a meaningless fate.
neverher the trouble comes Whether the trouble comes
plainly as a result of our own plainly as a result of our own
sinful folly and disloyalty, or
not, we are always in the hands not, we are always in the hands
of the Divine. Lover. He widl
not leave us in the Valley of Achor a moment longer than is
necessary. The door of hope stands open, and we can look
through it and see the glory that is waiting beyond-waiting Ior us. Thereflore we can sing,
even in the midst of trouble, be cause-like the three young $\mathrm{He}^{-}$
brews in the furace-the On O -
who loves us with an everlasting love is with us there, and
is drawing us by the pain nearer to Himself. He knows what training we need, and we can
trust Ilim. A dreary desert dost thaur trace, And quaff a bitter bowl?
The desert make thy Holy Place, Sing as thou drinkest, Soul ! - Or walkest thou 'neath shinA garden all the road? It might be thought that the execution
of Achan showed no love for him. that was only made an example to kee ishment was coldly retributive. The that was the old idea of punishiment. Which ideast giving way to a more Christian
souty is learning that cach Criminal is also a brother, that pumsh-
ment is intended to theal the disease of sin, not to express the fury of respect-
abbe citizens againt their weaker broth-
ers. ers. The imprisonment may be neces-
sary, but it should never be an end in
itself. The industrial farm for criminals Sing, Soul, and make thy paradise
The Paradise of God." - bora farncomp Since writing fom a reader. gift of $\$ 2.00$ from one of our readers, for, same needy woman or girl.," There
s a poor sick girl of my acquaintance, tho is in a very depressed, hopeless tate. Perhaps this gift may revive her Paith in the love of Giod and so do far
more than supply a temporary bodily
need. Many thanks.

## Why Mitford Wept

## Fashion Dept. How to order patterns

 Order by number, giving age or mea least ten days to receive pattern. Also state in which issue pattern appeared. numbers appear ior the if two coat, the other for skirt, twenty cento must be sent. Address Fashion DepartHome Magazine." London, Ont. Be and to sign your name when ordering paterns. Many lorget to do this. Address: Pattern Dept., "The Farmer'sAdvocate and Home Magazine," Whe Send the following pattern to Name.
Post Offic
Province -um......................


8265 Girl's Lingerie Hats, One Size.





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Gream of the West Flour (for ber 98-1b. bag $\$ 2.80$ Queen city Flour (blended for all purposes)
$\left.\begin{array}{c}\text { Monarch } \\ \text { pastry }\end{array}\right)$ (mour (makes delicious ${ }^{2.50}$ pastry). cereals
Cream of the West Wheatlets (per Gream of the West Wheatlets (per
(b-1b, bag)
Norwegian Rolled O.ats (per 90-1ib, bag) 2.50 Norwegian Rolled Qats (per 90-1b.bag)
Family Cornmeal (per $98-1 \mathrm{lb}$. bag). 25
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"Bullrush" Bran......................30
""Bu Extra White Middling
"Tower"' Feed Flour
"Gem" Feed Flour.
"Bullrush" Grushed Oa
Manitoba Feed Barley Barley Meal... Chopped Oats
THE GAMPBELL FLOUR MILLS CO.,LTD.
(West) Toronto, Canada

## The Fun Cure.

 "Doort shoot butterfies with rifes," ispertinent advice to those - and how
many there we the

 any family, and cases obest strenuesisity in the fun cure. A good laugh in are solvent,
can quickest unwind a tangle or smoot
 a rough
daily
lif
comedy habit of seing the comic side srows without looking for it.

Doss your work get into kinks?
Laugh it off. Laugh it ort.
Aro you near all sorts of brinken Laugh it off
If it's sanity you're after
It it's sanity you're arter.
There's no recipe like laughterThere's no recipe like taughter-
Laugh it off."
-
nae a masterpiece Tom MacPherson, a
does cotchman who does carpentering for a living, asked his
toreman for a day or, which wast readily
granted. Later the latter was intormed granted. Later the latter was informed
that the workman had taken the holiday
俍 to get married, and upon $h$

"That's fine" replied the foreman. ape you got a richt, good wife, , "Weel, I maun say she is


THE modern farm-conducted in accordance with the best That is why mo many of America's most buying rooting. using "rubber" type roofings invariably select
J-M REGAL ROOFING
Of Its Type The Best By Test
This roofing is made of imperishable Trinidad Lake Asphalt and the J-M Regal Roofing is backed by an organization that has been built up to nation wide proportions by a policy that does not permit a single
customer to be dissatisfied. We also dissatisiture
© $\begin{gathered}\text { We also manufacture J-M Asbestos Roofing-the roofing of highest pos- }\end{gathered}$ Write nearest branch for full information and booklet No. 40
The Canadian H. W. Johns-Manville Co., Limited Toronto Montreal

When Common Weeds are Money
Close by an old Country farm lay a
field of more than two acres of layd The greater part of this field was cov garden weed that our grandmothers called "bitter-buttons."
My friend who lived on this farm had童 frms purchased large quantities of the dried leaves and blossoms yearly, for Upon consulting with a frm. she found that she could dispose of the entire lot
for five cents or five cents a pound. The tans was
then eut and the leaves and blossoms It like leaves, and its yellow flower heads besides having a medicinal value, tans
Bent is a valuable help to the housekeeper for, if spread around where red ants have
been known to frequent, it will rid the ben known to rrequent, will rid the
place entirely of this pest Years ago, our grandmothers' large attics were never without a great quan-
tity of it strewn on the floor and among wooliens, as a preventive of moths and bufalo bugs. Many use it for this amme
purpose now, for it is a never - tationg remedy
In the
In very frequent sight of to seachusetts, it it a ting the roadsides in the country, eutthat it has a money value, and are now offering it in quantities to druggists and There any other plants groming wild in the fields that have a money
value to drugeists. Among these is catnip, a very well-known aromatic herb Claiming relationship to the mint family: Old Country homes were never withoul mothers pronounced catnip-tea for grand all ills. Many are the pains, of infant and elder alike, that have been soothed
by the qualities of this decoction The catnip flower first andonon. Clusters in the early part of June, and continues its blooming until far into sep-
tember. It should be gathered from July until September, picking both leaves and Ilowers, spread on a clean piece of linen
or white cotton cloth, and put away in a clean attic to dry.
It should be protected from dampness, as well as the directed hot sunlimphterss, and
aried very
diowly.
Every
othher ayy turn over the flowers and leaves, so that
the drying will be equal.
From three to seven cents a pound is the pricic
catnip brings in the drug market. Burdock, that plant with its ever-
Sticking burs which we dislike so much, ills. It is the root of the burtock plant
that is used-the thick, fleshyptppering. wrinkly root that has a slightly un-
pleasant odor to it.
Usually it is gathered in the early fall and carefuly
washed, split and dried, ready to be oold in market.
Burdock leaves are very frequently use Burdock leaves are very frequently used
for poulticing swellings and indama-
tions, as great soothing and drawing qualitites are contained in them. The plant has a quantity of seeds which are
also used for medicinal purposes. root brings, in market, about four conts a pound, and the seeds eight centa a
pound. of late vears our pound. Of late years, our own country
has not been able to supply the demand has not been able to supply the do that
of the drug firms for this plant, so that it is now being imported annually in
great quantities. great quantities.
Dandelion is
an
Dandelion is another universally
weed with many medicinal oualities.
In weed with many medicinal qualt es. ond
the early spring it is gathered and sold in the markets for table greens, and may
well be termed "the broom of the stomwell , be termed "the ronom of the stom-
ach," for it is one of the best spring tonics known.-Gladys Partelow, in Suburban Lite.
Brown was an easy-going old fellow.
He belieyed in taking things as they




Cosigned. and endoraded idressed to to the undider
 ngs throughout the Dominior

 supplied, and signed with their actual signatirres.





Ry order. C. Desrochers
Department of Public Works, $\begin{gathered}\text { Otawa, } \\ \text { June } 2,1914 .\end{gathered}$


\section*{| POUNTRRY | AN |
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 Pinte, R.R. No. 3. Ingersoll, ont.
 S. C. Whilte Leghorns Great haying and prize
 Italian Bees for Sinto-Colonies that are

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## ( 70. <br> Advertisemonts will be inserted under this head Ing, such as intrm Properties, Help and Situation TERMS - Three cents ser word each insertion Each intial count for one word and figres for two words. Names and addresses are counted  FARM TO RENT- First-class dairy farm of 240    Firm For Sale of 300 acres on main road, near       <br> 

Self-Conceit.
 cal things on earth is the self-conceited ion of woman. An over-weening opin-
evor ones doings and endowments
ever ever thrust in other people's faces, o
forced upon their one abnoxious as well as ridiculous George Elliott speaks of such a one as
being very much like a rooster whic
thiks. thinks the sun rises in the morning on purpose, to hear him crow. Turnere seem
to be some people who think that the world, or at tenste who think that the
in which they move exittse part of it
and pose of perceivinge, andsta admiring ther
brilliant crapacities
that great pity cacaities and and that it is a
be cornizant ateation could not
not be cognizan of thbir suation could no no
The aforesaid roose abilite conceit curred by hosining his neck wrung
and and some people never, we fear, leari
their true position during life.
are are glad to believe that many seli-con-
ceited young peopl ceited young people awake, dither gradur
ally or suddenly, to a true valuation themselves. Thee a ind out that other
people have braine and know peoplo have braine and know how to
use them, and that they themselves will
bo ant be entirery out-ditanced, if they do no
gird themelves earnest and persevring endeavy or
We must distinguish
We must distinguish, however, between
the sell-concoit which is emply-heded
ve the sill-concoit which is empty-heoded
Vanity
and that aimmese sell-congratuluation
 aims, defnito experience and untiring
industry, When Lord Nolson, a young
man the tor industry. When Lord Nolson, a young
man then, Yound his name omitted trom
a a newspaper paragraph dotailing añ
action in which he had been engaged
gaid. said: Nevor mind, I will one dagagen a gazeitlo of my own," it was not mere
conceit, Amid the hard knocks of
seeman, soeman's ilit ho had accurately mea-
sured his
|own capabilities. surrad
diosely
with others and being brough into competition with them orten takes
the conceit out the concait out or peoplo; while, at the
seme time they autain such seme time they atwain such a prope fies them to become leaders of men. - On
ward

Little Things That Cheer
Just to bring to those who need thi
Just ton lift whe drooping heart and
Just to smooth a furrow from a tired Just to holp dispel a cloud, just to
bring a smile,
0, the
kindly little deeds,
As on through life we go,
How they bring the sunshind
Just to do the best we can as o'er
life's path each day
With othar ith path each day,
Just to give a helping hand some weary
weight to bear,
And lend a heart of sympathy some
And lend a heart of sympathy
neighbor's grief to share;
O, those kindly
O, those kindly little deeds !
Our dear Lord notes each one,
And sheds His blessings $\mathrm{o}^{\prime}$
Toward life's setting sun.
-Mary D. Brine, in Christian Eindeavo
The Ingle Nook.



Two-thirds of all rural barn claims settled by forty insurance companies in Ontario in twelve years were due to lightning. If your buildings are rodded ou cut off two chances out of three of fire. LIGHTNING RODS
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These horses have been prizewinners att"the leading exhibitions in Canada, and will win again. Partie wishing to complete their show string should in spect this offering or communicate with me
Muirkirk is on the P. M. and M. C. Ry.

Muirkirk is on the P. M.
L.-D. 'phone, Ridgetown
 'Phone Fingal, via St. Thomas. A. WATSON \& SONS, R.R. No. 1, St. Thomas, Ont. it to himself as though it were the mor-
phine habit. His best friend may not more shallow than men. If
多 it
should be that there is a tendency, how suspect it. But a woman, when she
wants to ever slight, that way, should it not be
mat club and put a card in the paper, stat- ${ }^{\text {concen }}$ monsense and sincerity are qualities to club and put a card in the paper, stat-
ing how many verses she will read on on sough for cor cultivated, clung to as
bednesday afternoon. Women are natur-
breasures too precious to be lived withWednesday arternoon.
ally co-operative and
Women are natur-
gregarious; men ally co-operative and gregarious; men
individualistic and solitary in $_{\text {in }}^{\text {their }}$ The imputation in all this is, of
course, that women are more shallow than men, less given to quiet thought,
more to show: that in short a woman more to show; that, in short, a woman
never thinks of serious reading for the
reading's sake, but that she take to reading's sake, but that she takes to it,
if at all, simply that she may have
something to fuga something to fuss over, or that she may
flatter herself or inveigle others into the belief that she is intellectual. Surely this is to a great extent wrong.
Surely such shallowness is not typical women. Surely there are women in in ware
plenty who read serious literature for The sake of the literature, receiving but
incidentally the self-development and breadth of outlook that comesment therefrom,
and never dragginy the subject into conversation except from the impulse that
comes of enthusiasm. or with the unselfsh wish to pass a goor thing on. Sure- Passing to the country, who can say
is. is, of quoted, that women are the passarally more O-operative and grogarion tian mor Ot, perhaps, very mateorial to the quabe













ACres-about one mile from clarkson station, on Erindale Seven-roomed house. Small stable. Price five thousand.
19 ACRES-NIAGARA TOWNSHIP, Lincoln County, seventeen acres orchard
200 ACRES-FIVE MLLES NORTH OF COOKSYILLE. A Aumber one stock
Se can supply almost anything you require in stock, grain or mail this coupon for further particulars.


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 WS Dinmick COMDGNVOLUMATCEO



Auction Sale ${ }^{\text {of } 50 \text { gele }}$ Pure Bred HOLSTEIN CATTLE
at Frome ont., elgin county)
TUESDAY, JUNE 16th, 1914
AT 2 O'CLOCK SHARP (LUNCH AT NOON)
For Catalogue and Partic
Neil McGugan, Propritetor









 Comenty and the homese than by remou




 that too great a value cannot be placed
upon the work of our "Fresh Air Missions." The delights of the wild rasp-
berry field and the broad the heritage of the country-born, there-
fore let it well as a privilege to share these gifts with the less fortunate inhabitants of
the congested slums. And through Na-
Nand ". Up to the hills where our tired hearts

## Loosen and halt and rest regather their

In the busy round of life we may feel
that we have scarcely time to extend the hand in this way, but at our hands
will be required a rendering of our stewardship when finally the goal is
reached, and the poor we have always

## "There are forests that kneel forever Robed in the dreamiest haze.

Robed in the dreamiest haze.
That God sends down in the summer To mantle the gold of its days: Kneeling and leaning forever,
In wending and sinuous

## In wending and sinuous bays. There are birds that like smoke drift

With a strange and bodeful cry, Into the dream and the distance
Of the marshes that southward lie;
With their lonely With the marshes tonely latatoons and
Far undur the reeling sky."


For Preserving -buy St. Lawrence Extra Grathe choicest, pure cane sugar, Refinery to your kitchen-and full weight guaranteed Bags 100 lbs., 25 1bs. 20 lbs.
Catrons 5 libs., 2 ibs. St. Lavreace S Sugar Refinerefes, Lumbled. Ilontroal.

DICK LEVER PLOW WHEELS


OUR LEVER WHEEL Attachment will efior to alt others in that, by the lever you can
change the depth of the furrow and 1 finsting


 places. The whels are easily adjusted to the
do the width of the Write for fill particulara and illustrated DICK AGRICULTURAL WORKS BOLTON

ONT.

## FURNITURE?

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$\mathrm{S}^{\text {END for wholeale cataiogue to Lancashire }}$
Co inceapest Drapery Warehuse, and learh how
o incrase income. Make money selling Britis.


Hampshire Swine
ou, and give you description and prices.
J. H. Rutherford, Box 62 , Caledon East, On


 beads which are somerimes made from
the rose petals. Also I would like to the rose petals. Also I would like to
know how they are made with
 some tiue aso about the orors ppopea
beads, but have lost trace of it ovel
 information I may receive.
Yours sincerely,
Y, For full directions for making ros beads, refer to answer to Sweet Marie,
page 717 , issue of April 9 th. Possibly you the directions for making the salt and very pretty they are, dyed to mat how they are made.

Dear, Junia:- May I, through the "Ingle Nook" thank all those who wrote i reply to my request for the words of a
song; "Sunshine on the Hill." Pearl l. paddick,

## TheBeaverCircle

Song of the Summer Wind.
out in the the then
$A$ cool wind sang this song to me: Up from the meadows of waving grain
From nowers, new washed with the summer rain,
Where swift clouds col couds dapple the goden Dear little chilid, 1 have come agsin.

He ligereced a moment, and then was But he murmured these words as he (or where the hills meet the bending sky Can hot town waits bo bo coolded and 1 So, dear littlo chilid, good-by!"

The Garden Competition (OPman to both semiors and Juniors. l, ist of compettrors 1. Glaire Harrett (age 12 )
2. Anga Wallaceburg, Ont 2. Anna Harrett (10), Wallaceburg, Ont. 3. Ernest Harrett (8), Wallaceburg, Ont. 4. Lucille Moore (11), Strathroy, Ont. 5. P. L. Avilliams (14), Ilderton, Ont.
6. Hazel Leggett, 6. Hazel Leggett, ...... Rainham, Ont. - Margaretta Williams. Larchwood. Ot 8. Mabel Gunning, Sclence
9. Hazel E. Lishman (13) 9. Hazel E. Lishman (1 Evah Leigh Hagersville, Unt 10. Evah Leigh, .......... Hawkestone, Ont
11. Annie Condy (16), ... Greenock, Ont 11. Annie Condy (16), ... Greenock, Ont
12. Robt. Ripley, ... Wallacetown, Ont 13. Pearl Wallace, ...... Spencerville, Ont. 14. Coleine Eunice Treacy, Berlin, Germany 15. Myrtle Skakel (14), Thamesville, Ont 16. Elsie MacKay (13),
$\qquad$ 17. Cecil Simpson (12), 18. Eiaine Simpsorter River, P.E.1. 18. Etaine Simpson (10) 19. Oscar Oxley Hunter River, P.E.I 19. Oscar Oxley, ........... Cantield, 20. Robert Kennedy, Stirling Fals, Ont
21. Hazel Yelland, ..... Fort Hope, Ont
22. (1yde Compbel 2. Hazel Yelland, ......
22. Clyde Campbell (11)
23. 22. Myde Campbell (11),
23. Jean Graham (12),
24. 23. Jean Graham (12),
24. Alred Stone (11).
25. Cecil Baxendale, (ira) 25. Cecil Baxendale, Gi
26. Catherine Delany
2T. Howard 27. Catherine Delany (14), St. Nalo, P. $Q$.
2. Howard Jamieson, 28. Jean Graham 29. Olga Guest (12 31. Rargaret Sorley 32. Myry Breadner (14)
M3. Murde Simpson (1)


## 

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| st. Toronto, Ont. |

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Write for Free Fertilizer booklet and price THE HARRIS ABATTOIR CO.. LIMITED CREAM

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 Valley Greamery of Ottawa, Limited mery of Octava

## Five Reasons Why Men Change Tires

## Goodyear Users This Year Increase 55 Per Cent

Faster than ever men are changing from other tires to Goodyears. There are more tire users-that is true; perhaps 20 per cent more than last year. But Goodyear sales have increased 55 per cent. So legions of these new users have discarded other tires.

Why They Change
Some change to end rim-cutting. And No-Rim-Cut tires offer them the only feasible way to do it.
Some have suffered needless blow-outs, due to wrinkled fabric. The only way to prevent them is the "On-Air" cure, and we alone employ it. It adds greatly to our own cost.
Some fear loose treads. By a patent method we reduce this danger by 60 per cent in No-Rim-Cut tires.

And some want our All-Weat:er tread. A double-thick tread, as smooth as a plain tread, but with deep, sharp, tough projections. It grasps wet roads with a bulldog grip.

No other tire offers
any one of these features. Yet every tire user knows he needs them all.

## Resent Extra Prices

Some resent extra prices. There are 18 U.'S. and Canadian makes which this year cost you more than Goodyears-up to onehalf more. And those prices are unjust.
No-Rim-Cut tires hold top place in Tiredom. They outsell any other, after millions of mileage tests. At least in the four ways cited they excel any rival tire. Then why should men pay for other tires from $\$ 5$ to $\$ 15$ more?

There is no reason. It is easy to build tires to undersell Goodyears, but none ever built tires worth more.
Goodyear prices are due to output, to efficient methods and to modest profit. Every added penny is an utter waste. Tell your dealer you want Goodyears, and at Goodyear prices. He will give them to you.

THE GOODYEAR TIRE \& RUBBER CO. OF CANADA, LIMITED Hoad Office, TORONTO
factory, BOWMANVILE, ONT
For Sale by all Dealers.


## A Satisfied User

 of a B-L-K Has To Say:---Kite ont otawa, Ont. Nov. 4. 1913.




${ }^{\text {Yondity }}$

 sucessful milker must continut to g get all the milk and do it in such
wuy that the
 and A good miliker must bos inmpres casy, to keep in order and to operate,

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 Cream Ripeners, Facile Babcock Milk Testers, and other apparatus and
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MAIL CONTRACT SEALED TENDERS, addressed to the Post-
 noon, on Friday, the 3rd day of July, 1914, ror the
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contract for four years, 120 single trips per week
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Post offce of Woodstock, and at the office of the Post Office of Woodstock, and
Post Office Inspector at London.


## Deering New Ideal A Money Saving Binder


$T H E S E$ Deering binder features appeal to the farmer. The elevator, open at the rear, delivers the grain properly to the binding attachment. Because the elevator projects straight. A third packer reaches up close to the top of the eleavator and delivers the erain to the other two packers. A third discharge arm keeps the bound sheaves free from un-
bound grain. The T-shaped cutter bar is almost level with the bottom
of the platform and allows the machine to be tilted close to of the platform and allows the machine to be tilted close to
the ground to pick up down and tangled grain without the ground to pick up down and tangled grain without
pushing trash in front of the knife. Either smooth section or serrated knives can be used. The Deering knotter surely needs no recommendation.
The Deering local agent will show why Deering New
Ideal binders are the standard of binder construction. See him, or, write to the nearest branch house for a catalogue.

International Harvester Company of Canada, Itd

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Put the difference in the bank. The saving between Ford cost and heavy car cost is "velvet" for the prudent buyer. He knows the Ford not only saves him dollars but serves him best. It's a better car sold at a lower price and backed with Ford service and guarantee
$\$ 600$ for the ${ }^{-r}$ runabout; $\$ 650$ for the tourrng car and 8900 for the town car-f.ob. Ford, Ontario
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One Minute Washer Best Machine Made-Easy to Operate Washes Clean-Moderate in Price
Write to-day ior Catalogue

ONE MINUTE WASMER COTRPAUY, Toronte

Dear Beavers, - My father has taken
"The Farmer's Advocate" of years, and we like it fine. a number 1 have for pets three cats, and one pet calf
born a few months sisters; their names are Ethel and Mary. Mary and I go to school every day we can. Our teacher's name is Miss Short.
We all like her fine. We have three We all like her fine. We have three
horses, three cows, one call, and six little pigs. We had more, but we had a
sale, and we have just that many left. sale, and we have just that many left.
We have rented our farm. We had a We have rented our farm. We had a
farm of a hundred acres. At Christmas farm of a hundred acres. At Christmas and I got a few things. My teacher
gave me a book called "Putting on the gave me a book called "Putting on the
Screws." I will close with a riddle, What has four eyes and can't see? Ans.-Mississippi River What has ears and cannot hear?
Ans.-Corn. Ans.-Corn. $\begin{gathered}\text { SADIE CLARK. } \\ \text { (Age 10, Jr. III.) }\end{gathered}$ Kippen, Ont., R. R. No. 2. Jr

Dear Puck and Beavers I you a little poem that I think is very pretty. My brother takes "The Farmer's
Advocate" regularly, and says that he would not begularly, and says that he
without it. We live on a bush farm. My brother's homestead is depot. My father and brother both sa that the Eagle River District is the best over country in the Dominion.
Box 38, Eagle River, Ont (age 10).
do ir xow (Sent by Beatrice Johnson.) you have a gray-haired mother
In the old home far away, Sit down now and write the letter
You put off day by day: Dou put off day by day; Reach heaven's pearly gate-
But show her that you think of h But show her that you think of h
Before it is too late. If you've a tender message, Or a loving word to say, Don't wait till you forget
But whisper it to-day; But whisper it to-day;
Who knows what bitter memories
Mey haunt you if you wait? May haunt you if you wait?
So make your loved ones happy

We live but in the present
To-morrow is unnown-
To-moryow is a mystery
To-day is all our own:
The chance that fortune lends to us
May vanish while we wait,
So spend your life's rich treasure your life's rich treas
Before it is too late.

The tender word unspoken
The letter never sent,
The letter never sent,
The long - forgotten messages,
The wealth of love unspent
For these some hearts are breaking, So show them that you care for them
Before it is too late Riddles. What goes in and out and yet it never
stops? Ans.-A rail fence.
A man was at the end of a ten-acre A man was at the end of a ten-acre
field, and yet he was on the other.
ins. Yet was the dog's name . ${ }^{\text {ant }}$. Ans.-Yet was the dog's name--Sent by
Fearl Simpson (age 12, Jr. III). Why is the moon never rich? Ans.-
Because it spends all its quarters in get ting full.- Sent by Percy Walker (Jr. III
age 10), Eramosa, Ont.

The Ivory Snuff Box.


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IRON AGE
Traction Sprayers
Have capacity, power and adiust-
ment tos suit every need and pumps ment to suit every need and pumps
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They are made with single or
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There are special spray bars for many different crops, potatoes, to matoes, 'pickles, cantaloupe, grain,
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leaves as well as the top. A six-row
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What protection will your roof afford eiǵht, ten or fifteen ycars from now Most roofings look clike. Many are made
to sell. $\cap$ few toi: If youlet service
 NEPONSET recrods 11/e these: "One




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20Th GENTURY IS PIANO SAVE S100; write Dept. 4 for catalogue $\mathrm{L} \mathrm{L}-$ which 6 telis how.
THE SHERLOCK-MANNING PIANO CO Co,
Tondon, (No street address necessary) Carad

JUNE 11, 1914
the wall at one side of the room. Then
he stood back and surveyed the scene with a smile of satisfaction.
1y, "'my purpose. The wite sees the husband's suffering. If he refuses to
ppeald she will. One or the the speak she whill. One or the other will
tell us what we want to know, of that you may be sure. Let us leave them to talk matters over
He and his man at once left the room,
and in a few moments Grace heard and in a few moments Grace heard their
flootsteps upon the floor of the laboralootsteps upp
tory above.
"Richard !" she cried sottly. "Are you suffering very much?" "Never mind, dear," he said, trying
vainly to turn his head so that he might see her. "What has happenvdhy have they brought you here?" She told her story brokenly, with
many voobs. "I could not help it, Richard," she
moaned. "I did my best. I could not help their finding out everything. "I know it, dear. You have done all
you could. Is there any news from outyou could. Is there any news from out-
side? ?" "None. They told me to play the
phonograph to send you a message. Did None.
pougraph to to send you a message. Did you hear it ?"
"Yes. I heard and understood." "Understood? Then you know some-
thing; you have some hope?". "I do. not know. It may be, although
I cannot see what to do now. I dare not tell you more than that-these scoundrels are undoubtedly listening in "Richard, what is that light? What di. it they mean to do to you? Dr. Hartmann showed me his hand; it was all scarred and burnod. He said it the glowing cone of light with bitter anger.
a.
I
"I do not know-exactly. I am not
sure. The agony of the thing is very
great: it burns into great; it burns into my eyes-into my
brain. Hartmann says it will produce insanity. I do not know whether this
is true or not. I begin to feel that is true or not. I begin to feel that
perhaps it may beis not that the light itsolf can produce it, but that inability to sleep, pain, nervous exhaustion, the con-
stant glare and brilliance bafore my eyes -those things might cause a man to go insane-if they were kept up long "But-he-he will not dare to do that."
Duvall groaned, striving in vain to
curn his head to one side. urn his head to one side. coll him where he can find the sanuff"Rox." "Richard!" Grace fairly screamed out his name.. '"Then you must tell-you
must. You cannot let yourself go mad - not even for M . Lefevre. "I shall not tell-no matter what
comes," he replied. comes," he replied.
"'Then I will. I refuse to let you
suffer nike this. I can't do it. I won't. suffer nike this. I can't do it. I won't.
If you do not speakk, I shall. Oh-my God-don't you seo-I love you $-I$ love
you so-what do I care about this foolish snuff-box? I want you-you-
and I won't let them take you away and I won
from me."
"Grace. You shall not tell them.

- I forbid it."
"I cannot help it, Richard. I am
ready to disobey you, if I must, to save ready to disobey you, if I must, to save
your life. Even if you turn from me me
In your life. Evan if you turn I refuse to
alterward-I cannot help it. I
let them go ahead with this thing." He groaned in desperation. "Please Mlease-my girl-listen to me. You mus
not speak. We must think of our duty
to those who have trusted us. Wait, implore you. Don't do this."
"I will. I have a duty to you which
Dr. is greater than my' duty to them. Dr
Hartmann !" she screamed. "I will tell
Hhe collapsed everything-everything." She collapsed
argainst the wall and sobbed as though In a few moments they heard Hart
mann and Mayer descending the steps mann and Mayer descending the steps
and the door was thrown open.
an so you have come to your .n.a. have you?" the doctor cried


## High Quality Builds Big Telephone Business

HIS business was organized to manufacture telephone equipment for independent local and municipal systems. Right from the start our equipment made records for efficiency. It did not take long for our goods to acquire a reputation for quality and reliability. As a result, our business has grown by leaps and bounds.

It is a well-known fact that we have been
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To judge how fast our business is growing you'll remember we stated in a previous announcement that our business last year doubled that of the year before. Well, this year the first sales for the same period sales for the same period. More and more is it business, that we are the legitimate people to deal with. There are those in the telephone business who are interested in depreciating the success of the independent telephone movement and the development of municipal systems. On the other hand, our business lies wholly and directly with the independent telephone systems and it is to our own best interests to look after
those systems well, as on their success depends the growth of our business.
pendent telephone systems built in Ontario during the last twelve months, just drop us a line ing the last twelve months, just drop us a line. tergs, with the make of the telephones they are using. In fact, if you'll name over the large in dependent systems built during the last year in Western, Northern and Eastern Ontario you'll find that nine out of every ten are using our telephones and equipment.
system with our telephones in equipping your system with our telephones. We guarantee them we guarantee all our equipment and materials And in addition, we offer to send your telephones for Free Trial, so you can test and compare them with others right on your own lines before risking a dollar
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JUNE 11, 1914


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".I have used Kendills.
several jacks, and removed a bin bunct ore of kill several jacks, and removed a bunch of long
standing, caused by a kick." Sid. Grafam.
 Dr. B. J. KENDALL CO., Enosburg Falls, vi. 82


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100 storthorvs in out hero 100
MITCHELL BROS. Farm is mile from Burlington BURLINGTON, ONT.
Springhurst Shorthorns
HARRY SMITH
Glenallen Shorthorns
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JUNE 11, 1914

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Wednesday, July 8 Mr. R. Ford's and Mr. Percy Ford
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Tuesday, July ${ }_{\mathrm{k}}{ }^{-21}$ Choice selection from Mr. . . Ellis Pot-
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SHORTHORNS
Buls all sold; choice females for sale.
One yearling Clyde stallon, one wearling
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CHOICE!BULLS
are 9 and 10 months old. They are both
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Spring Valley Shorthorns
Ouestions and Answers.
 enartment 2 -Questions hould be clearly stated and plainly written, on one side of ther paperer only, and
must
afthe arcompanied by the full name and addres 3rd-In veterinary questions; the symptoms
Bpecially must be fully and clearly stated pother



Partial Dislocation of Patella.


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HAT old saying has proved true in the
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a Renfrew Handy Two-Wheel Truck scale ${ }_{\text {it }}^{\text {is to show you how much money it will make }}$
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## Put One of These Money-Makers

in your creamery and make each cow worth $\$ 15.00$ more to you tach year. The Standard Cream Separator skims down to .01 per cent. It gets all the butterfat but one-tenth of a pound in every 1,000 pounds of milk skimmed. You cannot
beat the Standard for close skimming. And it will give rich cream with either cold or warm milk. It turns easily. Automatically oils itself. Absolutely sanitary. Gives cream without a taint in hot weather. No other separator so
fully meets all the requirements of the Canadian dairyman. The demand for the fully meets all the requirements of the Canadian dairyman. The demand for the Standard Separator is now more than double what it was three years ago, prov-
ing that Canadians know a good thing when they see it. Write for our new ing that Canaliane know a good thing when the
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joing
$\qquad$
he result of 33 years Consists of three alis Pitching Machines. for drawing ends together. Easy to operate, quick to work, and exceptionally strong. - Swival Carners and Tralk kinds of Harpoon Forks, etc. Write for catalogue.

## Auction Sale of Jersey Cattle

## ak grove farm, Union

Tuesday, June 30th, 1914
There will be offered for sale the entire herd, consisting of 25 head of A. J. C. C. Jerscy y cattle, maong which are seven heado of 9 -vear-old heifers
to trechen in Iune This herd is headed by Lady's Jolly of Don, a crand bull. The proprietor is giving up business and is offering the product of E. The sale will commence at 2 o'clock, on arrival of the London \& Lake Erie Traction car, leaving London at 12.30 o'clock.
Oak Grove Farm is seven mınutes' walk from the station at Union. LOCK \& MCLAUGHLIN ROGK BAILEY, Proprietor St. Thomas, Ont., Auctioneers R.R. No. 4, Union, Ont


FOUNDED 1866
Questions and Answers. Miscellanenus
Pruning Evergreens
When is the proper time to trim ever green trees, also cedar trees, so as they
will not bleed? Ans.-Prune evergreens in the late fall,
and cedars in June or September. little bleeding will not impair the tre
as much as is generally supposed. archard Grass on Pasture
peas and oats last that I sowed with peas and oats last spring, and seeded
down with red clover and timothy. What I would like to know is, would it be of
any use for me to sow orchard any use for me to sow orchard grass on
top now and harrow thoroughly as the clover and timothy stand very thin on it and I would like to have it for cow pasture.
Ans.-It is getting rather late for seed-
ing, but it might come on all right ing, but it might come on all right if
the season keeps showery. It would have done much better sown earlier in the season. Weak Foal.
I have a colt which is two weeks old,
it tips over forward on its two it tips over forward on its two front
fetlocks. It is getting no better, but is growing fine. It puffs below knee-caps. Please give me a remedy.
Ans.-As the colt gains in strength and
grows its joints usually straighten and grows its joints usually straighten and
strengthen. Not much can be done in strengthen. Not much can be done in
the way of the administration of drugs, but bandaging and hand rubbing has
been used with isome success. Allow the been used with isome success. Allow the
mare and foal to run out-doors during mare and foal to run out-doors during
the day but do not leave it too long it gets sufficient nourishment and it will bably become strong in due

Breeding Mare-Knuckled. 1. I have a mare five years old. She
was ruptured when a suckling colt, but was ruptur of it, except a slight small
grew out of hole. She has never been bred. Is
strong and healthy win strong and healthy. Would it be ad-
visable to breed her ? 2. Also have a horse that is knuckled 2. Also have a horse that, is knuck by
over in the right front leg, caused by
standing in the stable. What is the standing in the stable. What is the
best remedy for it? Ans.-1. If she is a good mare in Ans. -1 . If she is a good mare in
every other particular it would be ad-
visable to breed her. visable to breed her.
2. You might try blistering and letting the animal out on pasture afterwards. Cement Foundation. Will you please tell me through your foundation under a cow barn, 30 by 40
feet. It is to be of concrete. Would it feet. It is to be of concrete. Would it
do to lay the walls right on the ground or have you to have a solid wall three or four feet under ground, or would three or four feet of loose stone in
the botom do? the bottom do? READER. IF. P.
Ans.-The footings should be down in the ground some distance, and on a solid foundation. Dig a treash und for this stones may be used with the cement to make it solid. It is better to grom
down so that there is little danger from down so that there is little danger from
frost. Two and one-half to three peet is generally considered enough.

## Pruning Young Fruit Trees

Will ypu kindly inform me how to
prune fruit trees-just how to go at it Last year I walked out to my young apple trees with my pruning knife, look-
ed hopelessly at them and finally cut of
several inches ed hopelessly at off every twig within
several inches
sight-and I am no wiser this year. see so much that is useful in your magy
azine, and hope you will cblige me by azine, and hope you will obsige
giving me the desired information. Ans.-Much has been written about th pruning of fruit trees and in our numbe
of April 9 th, 1914, on page 706, yo
ond of April 9th, 1914, on page
will see this treated and illustrated mor
fully than one could do through the fully than one could do through the
columns of our question and answer department. If, you once get a concep
tion of what your tree should be like when it has grown up you will have n
trouble in working with the small tree
the The illustration makes the branches alp
pear rather bare but they are not reall so. They are not cleaned out to the
point but all spurs and buds are left
on the branches. This article discusses the two types of pruning and answers

JUNE 11, 1914


The Sire of King Segis Walker

 breed having a $30-\mathrm{lb}$. daughter whose
dam, granddam and great grand dam, granddam and great grand-
dam have each produced a $30-\mathrm{lb}$. daughter. His three nearest dams have each produced a $30-\mathrm{lb}$. daughter, and also a son that has produced
a 30-lb. daughter, something that a 30-lb. daughter, something tha
can be said of no other sire that ever an be said of no other sire that ever
lived. He is the only living bull having a two-year-old daughter with record over 925 lbs. butter in one
year. Just one of his sons for sale year. Just one of his sons for sale
from the only cow in the world to have two 31-lb. daughters and her-
elf a 11 lb. cow
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Oshawa, Ontario

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> $\begin{aligned} & \text { A perfect milk substutute; put up in } 25-1 \mathrm{~b} \text {. } \mathrm{i} \\ & 50-1 \mathrm{~b} \text {. and } 100-1 \mathrm{bb} \text {. bags and sold at at }\end{aligned}$
$\begin{aligned} & \text { tively, If your dealer's asleep, write us. } \\ & \text { GRAMPSEY \& KELLYY } \\ & \text { Dovercourt Road - TORONTO }\end{aligned}$

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## Hölstein-Friesian

 Association of Canada Applications for registry, transfer and membershipas well as requests for bilank forms and all informa. lion regarding the farrerer's moss proftatable cow
should be sent to the Secretary of the Asociation. W. A. CLEMONS, St. George, Ontario

1 Holstein Bull, 16 mos., 3 Holstein Bulls 8 mos. and under. 2 Cana rising two
R. M. Holtby

Port Perry, R. R. 4
Manchester, G.T.R. Myrtle, C.P.R

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Trom the world renowned Tidid Abbekirk and Pon-
tiic Korndyke families compose the Maple Grove herd, known far and wide over the American con-
tinent. If you want stock of this class at reasonable h. bollert, tavistock, ont., r.r. No. The Maple Holstein Herd
 R.R. No. 5 WALBURN RIVERS $\begin{gathered}\text { Ingersoll, } \text { Ontario }\end{gathered}$

 Minster Farm


THE FARMER'S ADVOCATE:

## Questions and Answers.

 Miscellaneous.
## Sequel to Distemper.

 cough. She had a slight attack of disemper early in the spring. I blistere her throat, and gave her some powderwhich I got from a which I got from a local veterinarian
but she still continues to cough. Pleas advise
Ans.-Feed only food of first-class qual ity, and limit the amount of hay; dampen both hay and grain with lime water and give to each night and morning,
two drams solid extract one and a halr drams gum belladonna dram camphor and twenty grains powde ed digitalis, moisten with treacle, and give in a ball or shake up with a pin
of cold water and drench. Wall for a House.
Ror a house. Size. 24 feet by 34 building a cont Will you kindly tell me through your valuable paper how high to build the I can use, how, hany much stone filler many barrels cement, and what propor-Ans.-A 7 7-foot wall will give you ample oom for ordinary purposes but if you wish to instaul a curnace an 8 -foot wal However, these calculations are based apon a 7 t-foot wall. If by stone fillera you mean crushed stone which is much
the same as the total amount, but if you mean cobble stones or large stones put in simply as Mlers we would advise against that
practice. Cement has a gripping tend practice. Cementhas a gripping. tenc mixture where such filler is used and it even then deteriorates the structure. A 10 Inch wall should maintain this structure one to eight should be strong enough mixture. This would require 26 cubic vards Weak Foal and Retained Meconium. 1. I have a mare that has never raised a lcolt. Sho wa brod last year colt eleven months and twenty-three days. The colt was very weak, having
very little use of its hind auarters. It very little use of its hind auarters. I hived three days and died with constipa a dose of castor oil. The mare wa running milk for about ten days befor she foaled. Would the trouble be cause winter? again? Mare went dry in a fem day should she dry up so quickly
3. Should she be purged? 4. How much water is it safe to inject into a young foal at once, and how
often. Ans.-1. Several circumstances may the illness of the mare during the winter had something to do with the weakness of the foal. but since she regained h strength so well and was producing
much milk it would seem that the colt should have revived sufficiently... Perhap worked enough. Under these conditio food which should have gone for main-
taining the body was diverted into mil production. Had she been worked stead ily at easy work and given lots of een a little stronger constitutionally. ralsing colts one can onfy leave the rest to
rational treatment and leal
In leaking her milk nature. In leaking her mulk the co is
strum or frst milk was lost. This is necessary to put the bowels of the new
born foal in proper condition and assis in the passing of the meconium. Con-
stipation was the result. 2. It depends on the treatment she
ceived whether she should have dried un so quickly or not. We would advis
breeding her again. 3. Purging will hasten the cessation
of the milk flow, hut if the mare was
richt physically, and dried up so quickly 4. Inject three or pour ounces at
time and after the foal voids the liguid make another injection and repeat till
the faeces becomes yellow.


## LAKEVIEW HOLSTEINS

Senior herd bull-Count Hengerveld Fayne De Kol, a son of Pietertie Hengerveld's Count
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 ARGE ENGVERDALE BERKSHIRES resent offering: Boars and Sows ail atwe: bre
from imported stock. Prices reasonalbic. Sunnyside Chester Whites


THE FAFIMER'S ADVOCATE.
Questions and Answers. Miscellaneous.
Horse Killed on Railway. On April 30th, 1914, I was coming
home from work at 5.30 . and a fright train came along and blew no whistle and rang no bell, and I did not see them till I was close up to them. My horses
became frightened and they started to becaun rightened wat hey started to
pull - one each way - and broke theit puid - one each way - and broke their
brides and lines. and one of them got away from me and tried to jump over
the cattle vards to of the train. As she was doing this
or and the train struck her and broke her neck. She was six years old; the railway com-
pany rety pany refuses to pay.
for the loss ? Cho is responsible
Can Yor it
Ontario Ontario. would Constant reader.
Ans. - It
ment ment of the case that thom your state liable, and that you are the company are recover damages from them by an an in position to
action action. You should consult a solicitor
personnely personally about the matter and without
delay Low Wagon Rack
Please give through the columns "The Farmer's Advocate" the way to
build a low wagon-rack that would be suild a low wagon-rack that would b
specially suitable for hauling corn stalks. Ans.-A correspondent wrote in our number of November 21, 1912, that he at all the silo-flling bees in his country. The rack is made with spruce sills and
spruce bottom; the bottom should be made of one-inch spruce boards; it tongued and grooved it will be more
satistactory Anarow strio one incl high by two inches wide should be pu around the edge of the rack, which will keep the graii from sliding off. Four
rock-elm cross-pieces should be The edging should be bolted on, one bolt for each cross-piece for the sides, and
three bolts for the hind and fore edge. The bottom now needs very. few nails, one or two for each board in the centre
cross-piece should be ample. Two uprights should be placed at the hind end, and three cross-pieces, the width of the rack, should be bolted to them; this will
do away with building to do away with building to a great extent
on the hind end. The same could be done to the fore end, but it gets someWhat in the way when handing the
lines. A centre stake is, in my opinion, a. clumsy, unnecessary afair, and should

Silage Cutter-Field Bindweed 1. Will a 6 h.p. gasoline engine run and elevate silage 20 feet into a silo?
I have the engine and cutting box and would buy sufficient carriers to fill the the work. 2. I have three or four patches of very persistent weed called Wild Morning
Gilory get rid of the would be the best. way to
I think it is worse field last year and as often as hoed of
would bol up smiling a atain in a day or Woul up smiling again in a day or ordimary sice usually run by tractor power ranging from 15 to 30 h.p.
might over work your cencinc, but wout carriers with is lif curvine. We have Trical mutor, but it was in some cases
 a. murn turtemen carpact:

apply

Large White Yorkshires $\qquad$
Sunnybrook Yorkshires and Holsteins


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$1496\left\{\begin{array}{l}\text { Camp Meeting Band, Yocal Duet. } \\ \text { 85c. }\end{array}\right.$ Buffalo Baby Ralb. Pectless Quartitt
${ }_{85 \mathrm{C}}^{1387}$ \{ $\left\{\begin{array}{l}\text { Endearment. Prince's (Mr hesesta, } \\ \text { Cupid's First }\end{array}\right.$
1494 While The Rivers af Lon
 making, as on th reproducing mechanism of the instrument itself

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