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## Bulletin 33

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This not only applies to the users of other makes of separators but likewise to many thousands of DE LAVAL machines now 10 to 25 years old. They are still good, of course, but there are so many improvements embodied in the modern De ford to make an exchange and would soon save the cost of doing so.

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Yol. XL,VII.

EDITORIAL.
Do not be in too much hurry to sow the tur-
nips. Crisper, better-quality roots usually result when the sowing is delayed until about the middle of June.
By carly and persistent weed-killing the suil will be delivered from a host of hidden enemies, $7^{\text {nfold and lessening our crops. }}$

It is estimated that over twelve million acres of wheat have been sown in the Western Provinces Chis season. Enormous areas of new breakage cent.
In building new barns or stables, it is always well to allow for some expansion of the business, as the increased accommodation can be made at
much less expense when the building is under conmuch less expense when the buildin
struction than when added later.
If the amount of rain which fell in May, accompanied by cool weather and snow, is any criterion to judge by, the weather forecaster who promised that 1912 would be hotter and drier than the preceding season must have had a poor indicator
When Cabinet Ministers become so pestered with patrouage applications and correspondence that fressing public business is seriously hampered, the me has surely arrived for a thorough-going sreat relief to the average member of Parliament and develop a higher standard of public service.

The rapidity of growth of the corn and hoed crops generally depends largely upon the frequency and thoroughness of cultivation during the early coming up, and cultivate it as soon as the rows can be followed. It is often advisable, with the roots sown in drills, to cultivate before they break through the ground. Keep the cultivat
Koing and harvest a big crop of winter feed.
Q "Farm help may be scarce, but you would weekly papers," remarked a man in our office the other day, who was looking for a chance to get a likely-looking man of middie age, country-bred, but now holding a fairly good position in the city. Wife, children and himself were anxious to Tive in the country, but, with all the cry
of insufficient help, he could not learn of an opening to his liking, and wondered why some of . the men wanting help so badly did not advertise. We suggested that one reason was that many did not think of it, while others hated to risk the
price of an announcement. All the same, his reprice of an announcement. All the same, his re-
mark set us thinking. While it is idele to premark set us thinking. While it is idle to pre-
tend that farm help is plentiful, there are, nevertheless, some good men to be had, at fair wages, and an advertisement in a paper like "The FarmFr sadvocate" is a frrst-class way of discovering am, as we know by experience. of course, one

- sift the applications very carefully, and it
all, if possible, to make independent inquiry in well, if possible, to make independent inqeter
athent the candidates, but it is worth while better
and ") Wood deal than grumbling. Advertising is 1p, compared to travelling expenses, and goes

LONDON, ONTARIO, MAY 30, 1912.

## Encourage Farm Girls.

 Scores, yes hundreds, of reasons have been ad anced to account for the boys leaving the farm still unsolved. Perhaps if all the sound reasons advanced Per. Perhips if all the sound reasons would about cover the case. In dealing with the subject of the the case. In dealing with the far the largest percentage of writers discuss the problem from a very one-sided point of view. The boy would seem to be the only person that the rural district cannot afford to loose. The migrareality, the loss of the girls is a more serious blow to the country districts than is the loss of boys' places are somewhat taken by the immi grants from the old land Not so with the girls. Once the country is depleted, there is no way to replace them. Women immigrants are not so numerous as the males, and those who do come to our shores remain in the cities.One of the Toronto dailies some time ago cited this condition of alfairs as "startling," basing showed that several counties contained far more men than women, viz.. Bruce, with 1,875 more, Grey 1,719, and Welland, which is a small county, 2,381. Continuing, this paper pointed out that there is scarcely a county in Ontario which there are not more men than women; while in the urban constituency of North Toronto alone there are 7,500 more women than men.
Here is a state of affairs upon which those interested in social problems have ample scope to exercise all their thought and genius, and one ruminate number and character of its homes, and a coun try's homes depend upon its women. With such a condition of affairs as now exists, and which from year to year $1 s$ growing worse, what will be the outcome tion of country than by the steady course of its young women to the commercial centers. Such its young condition does not point to an increase in the number of homes in the land, but it is a sure road to the reverse. City girls do not leave the city for the country, and country girls, once in excitement, rarely return to the country to make a home. With the men predominating in numbers in the country districts, and the women in a large majority in the cities, conditions can tances only increase the tendency for more of the men to flock to town.
Girls going to the cities get positions in of fices as stenographers or clerks, many work in stores or whitewear factories-and why do they do gives wher in the paper hare reasons It ould probably be found that the desire for pock-t-money and the instinct of grepariousness are the two chici causes for the drift of the girls from the farm. Too many comfortable Canadian farmers think their daughters have no need of woney, and that for their services an occasional dollar, grudgingly doled out, is ample recompense. Tany a girl becomes a wage-earner in the cities on that she may sometimes have a dollar to
der conditions that are not nearly so agreeable as life on the farm.
The old cause, lack of social intercourse, is alo aflude the country is claimed to be less attractive than in the old days dances, sleighing part Templar meetings.
What is the remedy? Here is what the newsconsideration: " The telephone, with its facilities or arranging social gatherings ; good wide roads that would permit women and girls to drive about more, without danger of being crowded into the ditch by every passing motor-car ; the making of regular and systematic money allowances to the girls, to be spent on their own initiative, and the introduction of sanitary conveniences into farm buildings, would do much to prevent rural Ontario from becoming a country of elderly and middle-aged people, while the cities are swarming with pallid, restless girls who would be the life and joy of the farms of this fertile Province. Girls abhor soltude. Their more sensitive disposition, and all the iner qualities which go to make up human femininity demand company, and, phone and quiet riving horse (one which any woman can drive with sofety) are creat helps in this direction. But when it the bottom of the matter, modern conveniences which eliminate drudgery in the home nid sufficient spending money, would do more than any thing else to keep the girls in the country. No young woman cares to be a burden upon her people. She would rather work for wages first and we admire her pluck. The girl who does a share of the work in the farmhouse earns her money just as legitimately as if she pounded the keys of a typewriter or made or sold any of the articles known to commerce. She should not hesitate to accept it, neither should it be withheld from her or grudgingly given. Make the woman's task lighter in her home, and she will not the city the city. Give her opportunity to enjoy life. every form owes its womenfolk

## Waste Places and Overhead

 Charges.If the profits of the packing business are found the by-products, is it not likewise true that a good share of the profits of farming lie in the byplaces? The farmer pays taxes and interest or rental on every square rod of land within his line fence. He also bears the expense of fences and many overhead charges. For instance, the inter est and depreciation on house, barns and imple ments are the same, whether he utilizes the odd corners of the farm, or not. Now, all these over and every acre should re called upon to yield more than they are capable of producing in their present condition of fertility and cultivation. Every business man realizes the necessity of lightening the overhead charges on cost of production by distributing them over the largest output of which his plant is economically capable. So should the businesslike farmer, otherwise his business will sag beneath the weight, leaving him wondering why.

On almost every farm in North America there opportunities for enlarging the productive area, thereby swelling returns, decreasing average cost of production, augmenting profits and greatly

THE FARMER＇S ADVOCATE AND HOME MAGAZINE． THE LEADING AGRICULTURAL THE WILLIAM WELISHED WEEKLY By JOHN wELD，MANAGER

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of address should give the old as well as the new P．o．address．
12．WE iNvite farmers to write us on any agricultural



 and not to any individual connected with the paper．
dress－THE FARMER＇S ADVOCATE，or the william weld company（Limited），
improving appearances．The boulder or stump in the middle of an arable field，which could be free powder；the superflucus fence－bottoms，widened often，to three or four times a normal space by shrubs，stunted trees，stone piles，and rubbish；the
odd corners near the barnyard，strewn with the parts of discarded machiners；the needlessly wide canes，which might he worked down or seeded to alfalfa or pasture；the run－out old pasture
meadow；the half－acre of bottom land through
which a crooked ditch winds－all these places may and should be made to earn their proportion overhead charges．Tt takes time，of course，and
sometimes a slight outlay of money，but much could be accomplished if we could only get at it Realization of necessity is the hest spur th
action．A rainy time，such as recently experi－ enced in Southern Ontario，atforts a lirst－clas
chance to make a start．Commence now，elimi square rod count

Education that Interests Pupils Four years ago，O．H．Benson，who is now in
the United States Department of Agriculture pro－
moting the organization of boys＇and girls＇agri－ moting the
Wright County，lowa．Selecting 34 rural schools in the county，he inquired of the boys and girls
aloove the fourth grade what they filtended to do when they were grown up．Of the 164 bors， 157
replied that they would have nothing to do with
farming and $16: 3$ of the 174 girls were ．whalls
farming；and 163 of the 174 girls were whaty
emphatic．
Three years later，during which time instan
tion in elementary agriculture and home ，conom as been given and correlated effectively wit

ers，and 161 of the 178 girls announced that they
planned to become homekeepers，farmers，and so ${ }^{\text {on }}$ ．The schools，with their unpractical text－nouks， and the fathers and mothers who deplore their own hard lives，and wish something better than
farming for their children，are somewhat responsi－ farming for their children，are somewhat responsi－
ble for the exodus from the country，observes the ble for the exodus from the country，observes the
Country Gentleman，commenting upon these facts． Sure enough．

## Practical Education

Editor＂The Farmer＇s Advocate＂：
I am sure your readers were pleased with your comprehensive editorial in the issue of April 25 th on ＂University Agricultural Teaching，＂there will be your statement that agricultural teaching is most imperative in the common schools．How young a
child is when the or she begins to think and talk child is when he or she begins to think and talk
of what they will do when they grow up．Col． Hughes at least understands when a child＇s education should commence，when he insists that military training should be introduced in the common schools．By all means let us have
agriculture taught in the common school．
Col－ legiate institutes and universities，but not by men who have spent only two short years studying
this subject，which is of greatest importance．We an know the value of practical experience，and of the O．A．C．will heartily endorse the con－ vincing statements you have made on this sub－
ject．Possibly the heads of McMaster amd Queen＇s ject．Possibly the heads of McMaster amd Queen＇s the consideration needed；indications point very recent study of it on their part．
I cannot understand why the present system of
education has been allowed to exist so long system which from start to finish draws our young people away from the farm and blinds them an ideal life．An education such as you have suggested would bear the most fruit in the years or farmers of all agous in we not have more help future，say a
or
year or two？ farm，but knew little or nothing of the hardshins ago，when I came among them and began to farm read of others who toil all day like oxen，not and from dawn to darkness，but often far into the
night；some build up fine farms and accumulate money，while＂others are never able to come as near making＂both ends meet＂as they did when I have been asking myself（and every other farmer it pay to be a farmer，and why is it that so few
of us are living as we ought？I am now con－ vinced，from what I have seen，and from what
have learned from others，that the answer is of the rut of old habits and customs．We have Imany fine agricultural papers（I have an inex
haust the stock of admination for ．．The Farmer＇s Advocate），but many hesitate ahout investing a
few dollurs in papers and magazines，because there seems so little time to read them：but if we find better methods of farming．We have o
agricultural coileges and experimental farms，b their reports do not seem to be studied and read
the way they should he．We go on an excursion
$\qquad$
$\qquad$ all right，the＂ere are proud of it；we say that is
alt
can＇t rention as at their back ！We can＇t realize，as we should，that there is little，if
anything，done there in field practice but what Would pay us to do，also．This is where the
Wim．Welid Co．farm comes to our rescue－only 1112 acres，an average farm：our difficulties will be
their ditliculties；their successes will be more easily Why are we so slow to adopt better methods＂，
farming ？Some would answer．＂Tack of help we know of much that chould be done，hut can＇t
hecause we have not ent the mecessary help．＂ I would say arnin，＂Lack of eclucat ion．＂When
we can make farm life more pleasant and profite able，and shorten the day＇s work，we tll have less
difficulty getting help．How many on the wer to face unk nown difficulties，and trail away to riskine life and limb for the gold they hope to
$\qquad$
$\qquad$
$\qquad$ found，and complete directions riven to accom－ plish the work．The ordinary aold field can bee the more we find．
an agricultural expert placed in every town，with an office，where farmers could go for advice－the not have this expert placed on a farm？If we could get the Government to buy farms of various county in charge of an expert who would give in－ formation at any time to those requiring it，mak－ ing it a new kind of＂better farming special，＂＂
ways to be found on the one spot when needel open to visitors the daily work to be a practic demonstration，showing how crops and live stock should be cared for，and at the close of the year a complete，accurate report given of all expenci－
ture and profits，I am sure a farm or farms ture and profits，I am sure a farm or farms
this kind would be of immediate benefit to I feel safe in saying that the Wm．Weld Co．farm farm do more for us than tons of the ordinary farm literature．If proof of this statement is，
needed，recall the difference between＂practicing＇＂ and＂preaching，＂and how much we are influenced by what we see．Note，also，how you will find
dairying to be the most important work in find dairying to be the most important work in some
sections，while other sections excel in corn and tobacco growing．Inquire the reason of this， and you will mostly find that years ago one or two progressive men，understanding their work locality，started in on new lines．Sjlently they worked away；as a rule，these men say little
about their successes and failures（unless to inti－ mate friends）their books are not thrown open found engaged in the same lines of work．
I can＇t imagine any reason why we should not have experts on farms provided by the Govern inent．They would be a source of revenue or in－ were paid．
BELFAST CAMPBELL

## HORSES．

Give each horse a chance to tone up his system fall this season，grass should be sumficiently abun dant to give all the stock a plentiful supply．
Do not forget that the first year of the colt＇s its development．Foals will eat grain at an early age．Place a hox in the mare＇s paddock or
box stall where the mare cannot get at it，and keep it supplied with fresh，clean oats or oat A stallion which is himseli a good individual，
and which has a long line of ancestry of notable
breeding and individuality，is far more likely to get colts of a uniform high quality than one，
although of excellent quality himself but not ing as good breeding behind him．Inquire into人
If colts of uniformity suited to the produc－ point to breed the mare to the same horse each year，if possible，and also select a horse which
conforms as nearly as possible to the type of the mare．Mating individuals of vastly different con－ iormation can never be depended upon to produce

Keeping Down the Cost
The average farm horse is kept from year
year，without much attention being paid to the
gooll feeding is practiced，is more than the casual obser ver imagines．Specialized farming tends to
increase this cost．W．H．Tomhave，of Minne－ keeping farm horses is greatly that the cost o fied farming and the keeping of brood mares．He
estimates the cost of keeping the ayerage farm horse in the State of Minnesota average farm as feen，shelter，lator in caring fodes such items preciation in value，in caring for the horse，de lenses．It is also estimated that the length a little less than four hours for a yearly average excluding Sundays and holidays．The double problem now confronting farmers is：How can one reduce the cost of keeping a farm horse ma $\frac{1}{\text { diversified system of farming will have }}$ tendency to make horse labor more efficient．
distributes the labor throughout the entire and thus furnishes a more uniform entire year Work Lustead of working the horses to the
limit during the rush seasons of seeding and har westing times，the farm will furnish an even Amoment of lahor each day，thus reducing the cost Another means of reducing the cost of keepin
$\qquad$an
or
ond
oat
may 30,1912
place. Brood mares may be bred each year, so
as to have a crop of colts, and in that way the cost of keeping the horses on the farm will be distributg stock. Mares will perform the farm work as well as the geldings, and at the same
time rear $a$ colt that may be sold as a dras time rear a cotured for more money than it cost to produce him. It is also a good plan to dis-
pose of horses that are growing old, and restock pose farm from the crop of colts as they mature. The horse that can be kept at work is not
such a burden upon his owner. Four hours a day, the average length of time a horse work
by the year in Minnesota, is not a high average from the point of view of the average Canadian farmer, but no doubt there are very many farms
in Canada, especially those entirely devoted to grain farming or to some other special branch grain farming or
which requires horse labor only, upon which the horses are not worked longer hours than these
for a short season of the year. Even with the for a short season of the year. Even with the
best system of diversified farming, it is difficult to keep the horses at work ior any great part of
the winter months.
L.ong winters, with
high-
 Tomhave's second suggestion for reducing the cos comes in. If mares are kept in place of gelangs
and are bred regularly, the cost of upkeep of the farm horses is lessened. While often not engaged
in actual work, the mare which raises a colt each year is $\begin{aligned} & \text { producing something of value to he } \\ & \text { onner. } \\ & \text { idle dass. } \\ & \text { Raing colts }\end{aligned}$ pays very well during her idle days. These two methods of keeping down
the cost of maintaining the farm horses are well est of maintaining the farm horses are wel

The King's Plate.
15,000 people Heresy, a little brown gelding from the Brookdale stable, owned by the Messrs Dyment, won the fifty-third King's Plate. This
matkes the third time the Plate has gone to this stable. It will be remembered that, in 1904 Sapper, the Dyment entry, won the guineas easily
while one year earlier this stable did still better winning with Thessalon and taking second place
with Nesto.
Heresy is described as a " little with Nesto. Heresy is described as a "ittle
brown bulldog," and is the product of a mare purchased by the late Nathaniel Dyment four years ago in Kentucky. He was sired by Sain an imported horse, and is out of a mare catled cross of Bonnie Scot blood, and traces to Caiopin, Thormanby and other excellent blood on hif sire's side.
Amberite,

Administering Medicines to Animals
The art of actministering metrines to the without endangering the life of the patient, is
as simpie a matter as many think. This is especially the case when the medicine is
state and given by the mouth. A very commo reason why better results are not obtained fron attempted administration of medican the art, is the fact that a large percentage or the mede There are many methods of administering medi-
cines, soine of which require special instruments, ines, soine of which require sped only by veter ${ }^{4}$ tions. as the hypodermic injection, which consist (in injecting a solution of the active principle o
the drug or drugs just under the skin; the in travenous injection, which consists in injecting the solution directly into the blood stream in a the solution into the wind-pipe. The actions of medicines administered as above are men given by the mouth, but special instruments are required; must he exercised in keeping the instruments thoroughly sterilized, diluting the drug with dising the seat of injection, lence should be practice only by those who understand the necess the accleanliness, and are atso corven this way is onl. about one-sixth, or less than that, giverious re sults, while an underdose would have little action ther methods of administering medicines in troduction of fluids into the mouth by the use a syringe.
Powders
are given either
in damp food, in irinking water, placed on the tongue out of
poon, or mixed with water and given as spoon, or mixed with water method of giving
drench. The most convenient met the food, but nowders is hy mixing them with the food, bu

THE FARMER'S ADVOCATE
adopted. When the drug to be administe
small quantities, and dissolves readily safe and convenient method is to place
dry spoun, catch the pationt'
left hand, get an assistant to hold the head steady, with the right hand pass the spoon well back into the mouth and upset it, when the drug
falls on the root of the tongue, is quickly dis solved by the saliva, and then swallowed. of does not readily dissolve, this plan is not satis factory, as the patient will often drop more or less of it out of his mouth, in which case it must
be either placed in a capsule or wranped in tissue be either placed in a capsule or wrapped in tissue and given as a drench. The administration of medicines in the form of on the part of the operator. The drug or drug der,, and then either placed in a gelatin capsule o moistened with water, treacle, glycerine or other thistening substance, rolled into a bolus about inches long, and wrapperd in tissue paper. When administering a ball, it is well to get an assis-
tant to steady the patient's head and prevent him from holding it too high. The ball should be takes the patient's tongue with the left hand and holds it out, of the mouth at the right side; he grasps the ball with the points of the fingers and
thumb of the right hand, passes the hand back in the center of the mouth (being careful that the Workings of the tongue do not carry it between the molar teeth), and drops it into the pharynx,
usts behind the root of the tongue. The horse


## Heresy <br> Winner of the fifty-third King's plate. A. E.

short, quick cough and expel it intact, in whit case another attempt is made to administer ninister a ball without danger of it getting beween the molar teeth, when it is also danger of the hand being forced between the molars, whe hie patient will close tle weth the right hand, he will not be able to grasp very firmly, because his own tongue is between the molars on the other his hand forcibly out of the horse's mouth, he will receive painful wounds, but if he holds his
hand steady, and with the left hand still holding the tongue endeavors to get the horse to relax pressure, he will succeed in liberating the right hand with no injury except a few indentations pensive instruments called balling guns, made for this purpose, and it would probably be wise nimateurs to use one.
Drenches are medicines in fluid form, poured ino the horse's mouth out of a bottle or drench-
in order that any animal may be given a drench, it is necessary to keep the head elevated to such an exteve than the throat, in considerably higher level gravitate backwards and downwards and reach the pharynx (a cavity just hehind the root of the tongue). This is a very common method of administering medicines, and formed ; but, in order to avoid too great waste and danger of the animal's life, it must be careful-
cavity or box called the pharynx behind the root
of the tongue. On the posterior wall of this box are two openings; the lower one leads to the rachea or windpipe, and is guarded by a cartila-
cinous valve called the epiglotis: above this is the opening into the gullet. During the passag of fuids or solids from the pharynx to the gullet this valve closes and prevents the entrance of anyhing into the trachea, but when air enters the pen. When a patient's head is elevated for the purpose of administering a drench, and large quantities of fluid are poured into the mouth, it is not uncommon for a greater or less quantity to pass
down the trachea to the bronchial tubes and cause more or less, serious trouble, according to the nature of the fluid and the quantity thereof. euses. If from any couse the fluid is lowed promptly, the pharynx becomes full, hence the epiglotis becomes covered, the patient is forced to expire, and the expulsion of air from the ungs forces the valve open, and a greater or less again, there may be soreness of the throat, or naralysis of the muscles of the throat, or mere
stubborness on the part of the animal, or the fluid may be introduced in such large quantities that the animal cannot swallow it fast enought. From whatever cause, the results are the same. If sufcient quantities pass down the windpipe to fill spire freely for a few minutes, and die of suffocation. If a smaller quantity pass, it will set up mechanical bronchitis, which usually proves quantity pass, it will cause some distress, but bequantity pass, it will cause some distress, but be-
come absorbed, and no serious results will follow.

> In drenching an
animal, the opera- animal, the opera-
tor must be care-
ful to ful to observe
whether swallowing readi$\underset{\text { very }}{\text { must }}$ introluce very little liquid
until he does swal-
low. If he refurs to swallow, the roof of the mouth
should tbe rubbed the bottle, which him to champ hise jaws and swallow,
when a little more when a little more
Huid should be introduced, etc.

Under no circumstances should anithroats are sore completely paraly| zed be |
| :--- |
| Even $\begin{array}{l}\text { drenched } \\ \mathrm{smali}\end{array}$ | quantity of fluid

entering the larmencement of the trachea) will o cough ; hence, when a patient that is being drenched shows the slightest tendency to cough, though this causes a waste of the medicine that is contained in the pharynx. In most cases there when measuring the thse sor A convenient method of administering fluids to horses, when the quantity is not too great is by a syringe. One that holds about two ounces is yenerally used. The syringe is filled with the left hand, the syringe introduced well back into the mouth with the right hand, and the liquid forced out into the pharynx, when the tongue
must be immediately released. Of course, when necessary, several syringefuls can be given. This is a safe method in giving fluids, even in case of drenching an and throat. Some people recommend is very dangerous, and should never be attempted, ders, mixed with damp food, or in liquid form ders, miand weatily be administered. Drenching is the favorite way, and is not nearly as difficult as with the horse. The operator catches the nos-
trils with thumb and forefinger of the left hand, and, if an assistant be present, he stands on the
left side (the operator, of course, on the right) left side (the operator, of course, on the right),
and catches the horns, or, in their absence, the ears. The head is elevated to the proper angle, the neck of the bottle introduced into the right until the patient condences to work his jaws. when the fluid can usually be allowed to run free ly ; but if the patient holds his jaws quietly

THE FARMER'S ADVOCATE


## Rearing Foals.

"She looks like a non-breeder." How often type, in the pink of condition, and which appear at all times ready for the show-ring! And how often is the observation only too true. Not that
the better types of mare are universally non or the beter types of mare are universally non or larger percentage of them to prove so than of the common or scrub stock. The reason is that
the breeders, in working toward a higher standard the breeders, in working toward a higher standard
in the respective breeds, have put strong emphasis on quality, conformation, size and other features, ont have neglected that one character that is transmitted from generation to generation possi-
bly more strongly than any other-the reproduction.
The reason this has been neglected is plain. Some breeder has an exceptionally fine mare, bu she is a shy breeder. However, she is given every
care, and through such care, perhaps, during her care, and through such care, perhaps, during her
lifetime, gives birth to two or three foals. These by the same care, are raised to maturity, to peramong the females, and a line of stallions getting condition among the better class of horses, amany of them are pampered and kept in such high fit by
their misguided owners that what otherwise might prove fair breeders are turned into shy or nonprove fair breeders are turned into shy or non-
breeders-all due to the false view that special
care is necessary care is necessary for highly-bred stock.
On the other hand, what a pleasure
locate a farm-and there are many of them-where one can go into the field and pick out mares with
foals by their sides that have a long line of progeny, some still in the field, some at work on
the farm, and others, they will tell you, that have brought top prices on the market. These mares
have not the style or finish of the fore-mentioned type, but their offspring show that had the farmer not had the clearer view of the breader, he, too, inished show mare, but without the foal, and un
consciously been making a good start toward an
other line of shy breeders.
The difference between the two systems is that the one is highly artificial and showy, while the
other is near to the natural, and nature alway interded that a healthy offspring should be given
birth at regular periods. For this reason, unde birth at regular periods. For this reason, under neans that the non-breeder is crowded out. For
he same reason, among scrub or common stock where a shy breeder is not given special care and
none are kept in high fit, the kind is perpetuated only from the most prolific breeders, and non
breeders are seldom seen. The keeping of breeding stock under nearly
natural conditions, where exercise of some sort is riven regularly, and a certain amount of rough-
ng is done, has a twofold result. It keps the ing is done, has a twofold result. It keeps the
mare in such strong breeding condition that she
glmost invariably pives birth to strong foals almost invariably gives birth to strong foals
which, from the day they are born, are apparentl, which, from the day they are born, are apparent
proof against all illness. In the other stable ander the most comfortable surroundiners, and
one might add, artificial conditions. it sems hecessary to be in constant touch with a worls
narian, and the occasional foal, weak at hirth, is pparently the special prey of every germ known
0 collt life.
beauty and type in the mare, without this super-
fluous finish, the art of breeding should come comparatively easy. True, he must keep his stables free from mares that have in their blood non-breeding tendencies, as well as the stallion of the non-breeder from the better class to eliminate The production of a strong foal is the harder part in the production of high-class horses. The rearing of a strong foal, that, to give it a good
start in life gives a bountiful supply of milk, and that cal run in a rich pasture for the first season, is to the farmer and hreeder easy. What he has difflculty in producing is strong foals from dams and
sires of the right type--[Farmer's Advocate and sires of the right type.-[Farm
Home Journal, Winnipeg. Ma

## LIVE STOCK

## Our Scottish Letter

he weeks that have passed since I last wrote the senior of the firm of Messrs. A. \& W. Mont gomery, with which all Clydesdale breeder gomery had many friends in Canada, Mr. Mont was a frequent visitor during the past twenty-five years. His first trip was made in the old Dominion liner, Texas, and a very rough voyage he had He made many trips in the favorite White Star
liner, Germanic, which I believe is now in the St Lawrence trade under a new name; and it is near ly ten years since he and the late James Biggar,
who predeceased him by several years, made who predeceased him by several years, made a
winter trip in the Celtic, then the biggest afloat, although now not such a nine-days' wonder. Her commander then was the now worldknown Captain Haddock, who sent the fatal mesedy of the Titanic. Mr. Montgomery had trag ous attack of illness when in Canada on that oc casion, and that may be said to have been the be-
ginning of the end. He was never afterwards as he had been before, and quite as fit years ago he was seriously ill, and for the six part of three years did little active work. Dur ing the past three years he visibly improved, and and was travelling about a he was feeling well, tion with the business of his firm. He died early on the morning of 22 nd April, in his 64 th year. I need not describe Mr. Montgomery for the known to many on your side, He was very well extensive business with buyers from firm did an the Dominion. Those who knew him well greatly appreciated his qualities. He was a consummate he was even more expert as a in Clydesdales, but could read a man through and through,and was painfully impatient of mere talkers, unless, indeed heavy end of the business of the firm forposes. The half a dozen years has fallen to William Montgost ery, who now becomes the senior partner. Andrew Montgomery's only son, Andrew Mitchell Monthas shown himself to be a competent judge and of Clydesdales and of Border Leicester sheep, of which latter he has a select flock.
men may perhaps remember anothor Clydesdale reeder, James S. F. Routledge, Port William. He Mr. Montgomery. In Ine the days of the early Cly-
desdale boom--that hestale boom--that is, in the decade from 1880 -
1890 , Mr. Routledge was a faithful pilot to visifors who went down to what is called the "laigh
country," that is, the lower district of Wigtownshire and the Machars. ITe was a native of the themany were indehted to him for guidance as Mr. Routledge, like Andrew Montgomery, was a
keen patron of the Gate unt it the last, and never surrendered to the Ayr shire invasion-the supplanting of the native beef
breed by the invincible dairy breed. planting is a notable feature of the agriculture of
Galloway Galloway herds now remain, where once they held Mention of the Ayrshire suggests that the past
hree weeks have heen the crowning davs of their whibition. The dairy breed has its great outings At the stowns held at Kilmarnock and Ayr the
hreed is scen at its best. It is seldom the tons at these shows have to lower their colors at any nid quess which were entered for the competition

Ierby. This year the same quey won both
Kilmarnock and Ayr. If the present type to be judged by her, it might not be easy
make out a case for improvement along lines matility as opposed to mere fancy. Laigh Lang side Strawberry is a well-colored, stout quey
with a well-laid vessel and serviceable there were many queys after her in both the but marnock and Ayr Derbys for which a dairy farme would give more money and expect a bigger re on the " the same, she is a great improvemen in what were called the Ayrchire "milk", show and the influence of the Milk Record movemeni was clearly seen in the high commercial value o shows of dairy cattle. How rapidly two grea ment in favor of milk records has developed evidenced by the fact that, while, in 1902, when the scheme was inaugurated, only something over
1,300 cows were under review in 1911 there 1, 000 cows were under review, in 1911 there wer
no fewer than 13,250 , or thereby-an increase o ten times in as many vears. The founder of the scheme, John Speir, has passed away, but his and foresight. He was the mument to his labor culturist the West of Scotland ever produced. He never did a more substantial piece of work than he establishing of the Milk Record scheme. His
As a rural event the show
variably opens on the last Tuesday which in stands unrivalled. It is the best all-round show of West-country stock we know, and the best-at-(D) ended of all the solic shows. Its patrons study of the rural mind, it stands peerless. Cly desdales are always well represented at Kilmar up to the mark and this season s event was fully the yearlings of both sexes, and the es, especially fillies, were exceptionally high-class. Several new sires are forging their way to the front. Those were Apukwa, Revelants and first and third are sons of Hiawatha, out of mares farons Pride breeding, and the second is one of the best of Baron's Pride's sons. The old yearling colts being quite the ted appearance, his o far, and the champion at Kilmarnock, Harvies town Phyllis, is out of his daughter, and got by
Royal F'avorite 10630 . She is own sister to the Cawdor Cup champion of this year, Scotland Yet. would champion stallion at Kilmarnock, and he tyr had there been a trophy, was W. Dunlop's vell-balanced colt. He was Baron of Buchlyvie, out of a capital specimen famed Aydesdate dratt mare. Another very notable fea face sheen Here also the display of Blackfor shearling tups which have is a Derby ; it is they are lambs. The competition was very when flocks of Glenbuck and between the neighboring in the occupancy of the owner Charles former is and he is also the owner of Crogsflatt Howatson carrying off the James Clark. The latter scored the second. Another trize, and Mr. Howatson had face sheep was seen at splendid display of Black May 4th. There are many keen competitors in
that country, and it is this that makes for im-

## THE ROYAL DUblin Show

A visit to Ireland these days is an education.
The Royal Dublin Spring Show took place in the
same week as the Kilng
nime week as the Kilmarnock event. Of course
first among cattle breeds, with the Aberdeen-Angus third. The popularity of the Hereford a close to its dual-purpose merits. If there is such a
thing in the world as a dual-purper Shorthorn alone fills the bill. Irish Shorthorns
are rapidly and are rapidly improving, and at the sale, which not often realized were made. Viscount de Vesci, a long-time breeder, took first place with a year and others made $200 \mathrm{gs}$. ., $165 \mathrm{gs} ., 135 \mathrm{gs} ., 120$
$\mathrm{gs} ., 105 \mathrm{gs} .$, and 100 gs have not been wont to be qugures such as these and naturally, the Shorthorn breeders land feel pleased. Rightly or wrongly, all classe nervous anxiety over the issue of the Home Rule ciate the feelings of dismay with which the Irig shefore him. This is not the place in which to ner un a discmssion of the the place in which to ranadian experiences appearguments based o thladian expericences appear inept to the man
whom I have named, and that for the simple rea

MAY 30,1912
Changes are goin Scottish Land Cour
Hitherto, the Crofting
have had experience of
to the rest of Scotland
novelty. The members
are for of the judges in the Supreme Court; Colonel R F. Dudgeon, of Cargin, a stewarty land-owner
Alexander Dewar, who was for many vears factor
at Fosque, Kincardineshire : F. C. Morrison. N at Fosque, Kincardineshire; N. C. Morrison, M Kelso, Lochcarron, a large sheep farmer in the
Northern Highlands. The business of the Land Nortre is to settle disputes between landlord and
Conant arising out of questions of rent and the entenrgement extend to all holdings, but only to such as do no rent. The principle of a Land Court, however, admitted, it goes without saying that it is only a
question of time when its powers will be extended question of time when respecting holdings of every size will Court, and created by the same Act of Parliament is the Board of Agriculture for Scotland. This
institution consists of three members, who are Sir inobert P. Wright, formerly Principal of the West formerly Lecturer in Agriculture in the University of Aberdeen; and John D. Sutherland, a West
Highland land agent. This body, so far, has done little else than create offices, and it will be they have done anything to earn their salaries The number of officials appointed is rather alarm ing, and a good already being done by officials in salaries will run on. A number of men have been appointed under the mard enation and depopula tion. This is a big job, but it is worth attempt ing. Mr. Sutherland is to endeavor to create
Small Holdings, and another official is meantime to endeavor more poultry and eggs, and so demonstrate duce more poultry and egos, amically sound propo sitions. That their multiplication is good for the State is undoubted, and it is worth a big effor Other changes are taking place. James MacHighland and Agricultural Society for twent years, has, on account of intheath, been com pelled to resign. His successor has alicitor, son o a Perthshire farmer, with wide connections amon other farmers in Perthshire and Ross-shire. A present he holds several administrative Apart from his upbringing on a farm, he has ha no connection with agricuture, but he has been diligent student, and has attended unlify him for
technical school classes, fitted to qualify enters on his duties in November next. Meantim the secretarial duties are being performed by in the Macdiarmid, who has heen Agricultural Society Tor something like forty years. He, ovember last, but was prevailed on to accept the (1) Innald's hreakdofn in October last. IIS hole judge of fat cattle alike at Chicago and Guelph. This is W. S. Ferguson, pictstonnitle
W'erth. He has also acted as sole judge of cattle 4. man of great energy and a leader of agriculturalso can judge to excellent purpose among fat "Hek of every kill of them to gooll purpose. His
"Hices, and all
"rvices were acknowledged a week aro to day in
'perth, when he was present wh ". With his portrait, is popularly termed, has ture an usefill member society, has played the carne, anl domer his best
further the general ampiculturn intorest. He further the general aericultum int erest.
been a great traceler and has sen more orld than

Prices Advance in England

THE FARMER'S ADVOCATE
Canadian Farmers Are Losing More than $\$ 1,720,000$ on Wool Annually.
in $\$ 1,720,000$ arises from two causes only $:$ First,
want of knowluhe in producing wool properly and handling it cnrrectly. Second, want of the right kind are also indirect losses arising from other causes, ar I will conline myself to the loss arising solely I am estimating this loss on information gaththe first half of last year. Unless immediate action is taken, the loss this year will be considerably greater. This is very regrettable, in-
deed, when other countries are looking forward to $a$ substantial advance in prices and the best wool Probably the question now present in the mind of the reader is how I arrive at this estimate. W must first remember that, with a few isolated ex
ceptions, Canadian wool is grown and handled in a very indifferent way, delivered in a most unsat any of the advantages of a properly-organized system of marketing. The result of this lack of information and entire absence of organization is a great variety of unremunerative prices. It very
often happens that, when Ontario farmers get an average price of fifteen or sixteen cents for their Wool, other parts of the Dominion are only get of Western Canada wool was sold In some part twelve cents a pound, quite equal to some New Zealand wools sold on the English market for
twenty-nine cents. There are other cases where twenty-nine cents. There are other cases where
Western wool was sold last year for fourteen cents, which, if properly classed and marketed, ing such statements thirty-one cents. In mak facturers, because they are giving quite as much as they can afford under existing conditions; neither do I directly blame the much-abused "middlemen, are some they are not all bad, and the few who are merely the outcome of a bad system of market ing and the insufficient information possessed by Without going into further details, and leaving artificial prices and exceptional cases out of the Canadian sheep farmers from the two causes mentioned is at least ten cents on every pound wool grown in the Dominion. Although a very between the average Canadian price and the average prices realized by British, Australasian and Argentine farmers for similar
wools on the English markets. I have made full allowance for freight and selling expenses. The difference is that the wools of other countries are
packed in the right condition and sold in sple didly organized markets, while Canadian wools are mostly put up in the wrong condition, and
sold without any marketing organization what

Now, for the total amount. Canada produces over fourteen millions of pounds of wool annually. amounts to $\$ 1,400,000$. There is also serious loss resulting from faults in growing wool, but I will only call attention to one feature
loss. Other countries dip their sheep loss. Other countries dip their sheep twice a
year, and they are confident that the difference in the weight of a fleece dipped twice and not dipped at all is from one and a half to three pounds, in
addition to the improved quality of the wool and other advantages. In Canada, dipping is only practiced by breeders of pure-hred sheep, and or
dinary commercial flocks are seldom or never dipped. Taking the lowest estimated loss in weight from this negrect alone, ill woutc amount to three million pounds, but I will deduct one million, and
therehy make ample allowance for the pure bred therks. This still leaves two-million pounds. I
flocll not reckon this at 25 cents a pound, but at the average Ontario price last a year- -16, cents-
and this will amount to $\$ 320$,oo). Add that the difference in price, and we have a total loss sheepl) arises fromation. Arain I repeat that this loos direct losses into consideration. These twincauses
will have to be remedied before this hiavy loss Can be overcome. No artificial remp-ly will really
make up for this loss, unless we get up our wool s.lling it. Some farmers have various theories ancesting the price of domestic woon, hut sup-

matter and reconstructiug our wool-growing in lustry on a fresh foundation. The Sheep Commission went to the root oi the matter, and also
suggested the remedy. What is now required is The question now arises, " 1fow soon can we Overcome the loss I have pointed out?" Person-
ally, I am confident that half this loss could be fiped out by August of the following year The number of sheep would naturally increase in the meantime, so that our farmers would receive fully
t wo millions of dollars more for their wool in 1914 than they are doing at present. It is still possible to wipe out a great deal of this loss beThe loss to some of our farmers who are tak ing great interest in their work, and practicing ng great interest in their work, and practicing
fairly good methods considering the small get, is not only serious, but exasperating. ${ }^{\text {I }}$ month, where ten thousand sheep have been wintered in good condition. Having carefully exmined this flock, 1 think they will yield an averfen cents a pound on eichty thousand pounds of wool means a loss to this man alone of $\$ 8,000$. The cross-breeding methods of this sheepman are not seriously at rault, like those of some of his well-managed shipment would make the difference I have stated. This is the largest sheep ranch in Canada to-day, yet it is only carrying half the est ranch 1 visited in Alberta had only two hundred and fifty ewes. This was situated away up in the Pembina district, sixty miles north of Edmonton. It was owned by a new settler pos-
sessing excellent experience in sheep-farming, both sessing excellent experience in sheep-farming, both
in Scotland and the Western States. He was using pure-bred Shropshire rams on very superior grading up to mutton sheep. His wool was of excellent quatity and properly handled, because he
not only knows how to grade his wool, but takes a pride in doing everything well. Last year he
hauled his entire clip with an ox team over sixtyhauled his entire clip with an ox team over sixty-
two miles of heavy trail to Fdmonton, and sold it to a dealer there for ten cents a pound. His wool was then worth 32 cents in London. His their wool in wretched condition and peep, pack same price. Although this man was making more money out of his sheep alone than any of his neighbors were making out of all their operations, to sell out and leave the country For want of a well-organized system of marketing, our best wool-growers get no encouragement for getting up
their product in first-class condition. Wool is only a by-product to the mutton sheep farmer, but it is the major portion of the ranch sheepman's investment, because his wool is worth shears five or six times and only kills once. In an quite aware that the mixed farmer estimates the value of his wool out of all proportion to the value of his mutton, still we cannot get rid o to take more interest in sheep-raising unless we establish an organization that will enable them o secure higher prices for their wool.
Our farmers have long had every reason to feel dissatisfied with the unremunerative prices they have generally received for their wool. They
will continue dissatisfied until prices are more on a level with other countries where wool-growing is a profitable occupation. I am, therefore, quite able time to continue persuading sheepmen to in crease their flocks, without providing them with full market value for their wool. Although always aware of the absolute neces sity for creating such an organization at the very industry, I was at first inclined to think that it the past four a difficult undertaking. During the past four months, however, study of this vital subject, and 1 am now confl expensive. I have no hesitation in stating that his important work could be accomplished in two years, providing we made an immediate beginning
on right lines.
Knowing what has already been accomplished under worse conditions in South minded man with a world-wide experience, I can assure Canadian farmers that more progress could operation. It is impossible to explain a somewhat intric
atce subject in a newspaper article, but I am pre
parel, at any moment, to satisfy a representative


Silage Has Done and Can

| lage must be put into the feeding programme every beef producer who wants to fit steers for and efficiently. The ani- of the Iowa Experiment part a year ago in a t proved it fully this year heted only the other day. silage made cheaper gains, inkage, and they returned other animals in the test fed net cost that was $\$ 2.01$ per Ired pounds less than the clover-hay-fed steers the best lot of silage-fed steers made a profit $\$ 23.46$ per anin 1 for those fed $\$ 17.27$ fer Fifty steers were f The $\checkmark$ were |
| :---: |

back on silage and shoved hard on corn, the object being to make the ration concentrated at the
end of the fattening periol. Cottonseed meal end of the fattening perioun. Cottonseed meal
was allowed in equal amounts of practically. 23 was allowed in equal amounts of practicall. of clover, which contains protein, was fed somewhat less for best results.
All feeds were charged at actual market prices,
as follows: Shelled corn, first month, 50 cents: as follows: Shelled corn, first month, 50 cents
second, 51 cents ; third, 55 cents ; fourth, 57 second, 51 cents; third, 55 cents; fourth, $\$ 8$ a ton; clover hay, $\$ 15$ a ton ; corn silage, $\$ 3.20$
a ton.
$\qquad$ of corn in field- 8 cents below market-at time of
siloing. Cost of filling silo, storage of silage and depreciation on equipment, are included. This allows the farmer a field profit on the corn. The exceed $\$ 2.40 \mathrm{a}$ ton. All roughage was fed twice, according to the
steer's appetite. excepting in Lot 5 , last wo steer's appetite, excepting in lot 5 , last two
months, where it was limited. Hogs following cattle were valued at $\$ 6.10$ first three months, and $\$ 7.50$ last two. low in lots for the entire feeding periont.

|  | DETAILED STATEM <br> (Ten Two-vear-old |
| :---: | :---: |
| tial weight |  |

 Shelled corn

Cottonseed mea
Clover hay
Corn silage
Corn silage .....................................
Cost of 100 pounds gain, excluting hogs...
Net cost of 100 lbs , gain on steers, deduct-
ing hog profits.
Necessary selling price a 100 lbs . at Ame
to break down even, excluding hogs
Including hog profits.......................................
cost of shipment and shrink from Chi
cago values $\ldots \ldots \ldots$
Net prolits on each steer
Pounds shrink pe
Per cent. shrink
It will be remembered that last year the Iown Station called attention to the indicated possibil
ity of fecding silage heavily in the early part ity of feeding silage heavily in the early part of
the feeding period, decreasing as the animal became finished and quite fat, for the evident rea
son that the large amount of silare was not de sirable in producing rapid and economical gains at the close of the feeding period. It is somewhat
interesting to note that Lot 5, handled in this interesting to note that Lot 5 , handled in this
manner, heavy silage and light corn at the beginmanner, heavy silage and light corn at the begin-
ning, with light silage and heavy corn at the ning, with light sllage and heavy corn at the
finish, returned the largest profit per head, or
$\$ 23.46$. This in spite of the fact that corn in$\$ 23.46$. This in spite of the fact that corn in55 cents during the first three months. In othel
words, everything was against this lot, because of
the high price of corn, but in spite of this big handicap it won out by a narrow margin.
In making a change of this sort, as the animal In making a change of this sort, as the animal
becomes fattencci, it is advisable to do it gradually, pushing heavily on the corn and coming concentrate the ration at the end of the fatten
ing period. are, but at present prices its use is quite pro figured at $\$ 11$ per ton, instead of $\$ 15$, the mel

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
, hid heifers or other cattle for the block, it is cecessary and quite imperative that a concentrate the feeding period. Cattle which are being long nicely oughed through the winter can get Mialfa hay, thus fitting them well for grass and ubsequent green feed; but, for the fattening aniThe most eloquent friends and and hose men who have fed silage. Certainly are greater recommendation can be offered for any
feed than this.
J. M. EVVARD. M. EVVARD.

What is Wrong with our Feeders?
10.5 statement that on that date a shipment of
15. head of Canastian cattle were to leave the
mion stock-vards, their destination being France
$\qquad$

$$
\begin{aligned}
& \text { colve a preference in France, and are admitted } \\
& \text { alme These cattle are stockers, and are to oo } \\
& \text { foll in various parts of yormand. }
\end{aligned}
$$

Wt the mecting of live stock men at Ottawa
Whined of a falling off in numbery province com
Cauching ularming in some parts has of late beon
inds is scarce in our own land. Meat of all
went.. lise weight. Tond ronto market at $\$ 8.00$ per
Cominnands weight, and good meat to the consumer
or as well suited to cattle-fee.ing ac any und
"c. sum. France int cacluded, and we hive just as
wrate men here to feed them, and, besides, our
II catlle can here bemeht here and shipped to France
, the finl an! feeders there can make a profit, it
can make a profit,
living profit could b
tle right here in Can
lucrative trade clain
arger markets are what helps
in the cattle business the fin-
alomerer, hat in the catle business the fin
and pastrue grass is one of the
crass is one of the

THE FARM
The Chinch Bug Winters in Ontario.

A serious outbreak of chinch
Middlesex was reported then The Farmer's Advocate " 16 th issue), and readers were asked to keepp sharp lookout for any appearance of the pest th
spring. In soine parts of the Township) of ". Nissouri they are as numerous now as last ial having passed the winter in perfect condition
This is positive proof that our winters are not sulli cient barrier to the chinch bug, as the past wint was one of the most severe in our history. Some of
our most injurious insects have made inroads while we, knowing the extent of their ravages in other countries, sat idy by, fully satisfied that
our hard Canadian winters would exterminat them ; but they have become climatized, and al now as alarming here as in their native clime (the San Jose scale, for instance). The chinch bug has cost the they have had to combat, jeing in the neighborhood of $\$ 6,000,000$ annually for the past sixty years. A circular issued by the Bureau
of Entomology of the United States Department of Agriculture says that "Few insects have caused $\int_{3}^{\text {sum }}$ isphere No other insect native to the Western Hems wider area of country, with more fatal effects to the staple grains of North America than has this

There have been no enormous losses in Canada as yet, but should this insect become general
throughout the Dominion, the loss to farmers time to look after this nuisance, while it is contined to limited areas. It is, therefore, importan
that farmers of Ontario, and of the County Middlesex, in particular, should have some know tory, and means of prevention and control
C. Gordon Howitt, D. Sc., Dominion Entomol,
gist, Otlawa, in Census and Statistics Monthly

$$
\begin{aligned}
& \text { states that the first record we have of its occur- } \\
& \text { rence in Canada is in } 1866 \text {, when it was found }
\end{aligned}
$$

$$
\begin{aligned}
& \text { rence in Canada is in } 1866 \text {, when it was found } \\
& \text { near Grimsby, Ont. Since then it has been found }
\end{aligned}
$$

$$
\begin{aligned}
& \text { near Griusby, } \\
& \text { int. Cape Breton, } \mathrm{N} . \text {., and also at Winnipeg, }
\end{aligned}
$$

$$
\text { Man. In } 1908 \text { it was generally injurious to late }
$$ oats in Welland County, Ont., and during the pas

year (August, 1911) it has been reported in abul year (August, 1911) has been reported Nance in meadows in Arobahly generally distributed from Lakes Huron and Frie, eastward to the Atlantic coast. He also, in the same report (Sept., 1911), gives the life-history and preventive and remedial meas
ures, which, if it is not taking too much space

$$
\begin{aligned}
& \text { would give your readers much valuable intorma } \\
& \text { tion regarding the chinch bug. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { measures } \\
& \text { Life-listory. - The adult chinch bug }
\end{aligned}
$$ one-firth of an inch or less in length; it is black ish in color, when spot. The winter is passed a conspicuous stage under rubbish of all kinds, fal len leaves, stubile, grass and brushwood. In the spring the feniales deposit their eggs on or near

the surfice of the ground, either among the roots oi cereals or grass, or in the leaf-sheaths
gre plants. Each female may deposit upwards
five hundred eggs, which hatch in two or thre weeks. The young larva are yetow aright ver
but soon become red, and later a bre
mulion. They are similar in shape to the adult tot are wingless. The principal injury is appar-
tont in August and September. The insect inflicts the most damage on wheat, barley, corn, rye and Is in the case of the present outbreak. In at tail attachs various grassec, and harnyard Lrass (E. crusgalli).
Ireventive and Remedial Measures.-The best
mothod of prevention, as in the case of numerous in sect pests, is clean cultivation and cleanliness about the farm. By clearing away and burning rub other ways destroying the hifernating places of mo. only these but other injurious alluable work can be accomplished. Where tim why meadows or pastures are attacked, as in the "sent instance in Middlesex County, remend: of the area now permanemts will to so oming them over during the winter will will ,ul, but many of the hibernating hags wil ".
$\qquad$
 sustem. wherever the pest is curnomes If
Wh. noul when attacked by any adults it ..... how the work is domen anm what it costs. Then

onds. The accom-
panying illustra
spreader at Weld
wood scattering a
limestone across
the alfalfa field,
to which it was
perimental strip.
While the anreader
cannot be set to
spread less than
three tons of ma
nure pe
still, by
the depth of ma-
nure or limestone
be put on much
more thinly, even



A manure spreader is not an indispensable im-
plement on a farm, and a man starting with in
sutficient capital can get along without one. For
be found a big dividend-payer, even allowing for
the fact that it wears out sooner than some
others, and for the further fact that it cannot be
utilized all the year round. Not only does it
save precious time on every load of manure hauled
out, but, what is even more important, it dis-
land-much better than is possible with the most
farmers declare they would as lieve have three
tons to the acre applied with the spreader as
verify their statements. (While they probably ex
aggerate the benefit by regarding too exclusively
no doubt that a ton of manure applied with the
machine will produce not only earlier but larger
is probably not heyond the mark to say that on
head of stock are kept, a spreader would pay for
itself in two years, even though part of the ma-
nure were drawn in the winter with sleighs.

was that a manure spreader has various incidental
ases, such as distributing manure and ashes and
hauling roots. We have heard men say that they
could crank off a load of turnips in thirty sec- per acre. Not-
withstanding that
quite a strong Broadcasting Ground Limestone with the Manure Spreader Satural factors may play a considerable part wind was blowing, the spreader made a good determining the abundance or scarcity of chinch job of scattering the limestone, though the onditions and a fungal disease. The latter is material were applied on a quiet day. Where ere winter weather does not appear to affect the ly matter He winter wealts when the locality is an exposed ili. Continuous rain during the time of hatch-

## How Weeds Menace

In an article dealing with the serious menace Conservation gives seven of the chief objections to 1. They take up space which should be devoted to useful plants among which they grow and tend to deprive the latter of light and air
ifew weeds, such as bindweed, wind round or clinb up the stems of cercals or other crops, often pulling them to the ground.
2. Thev absori) large amounts of water and 2. They absorib large amounts of water and
fertilizing constituents which are needed for the fertilizing constituents which are needed for the
nourishment oi the cultivated crop. 3. They are a source of loss in that they necessitate more labor being spent in cleaning opera4. The presence of weed seeds in samples of grains and in clover and grash secas
market value oi these.
5 . Some weels are parasitic upon useful 5. Some weeds are parasitic upon useful plants. An example of this is dodder, whic
lives upon the juice of the clover plants, to which

A Fair Estimate on Time.
A maleased to see that, in publishing the

In intal, and is important in the natural con-
rol of the pest. On account of the dry weather
"hich prevalled during the past summer, the outusis the continuous rains this spring destroy the forbt. Hisumen while in our office the other clay Whonwh some of your readers may shake thei is calculatiol to set people thinking and
"th pace a proper estimate on the value
", wn labor, thus contributing to the digbusinces of farming in their own eves
an a farmer himself

$\qquad$
$\qquad$

## Shallow Cultivation for Corn

 old-time useless custom of planting corn in hills raised some inches above the surrounding evel, and from the worse than useless custom of deep cultivation between the rows. Most of them are now fully awake to the fact that corn does best when planted on level ground. But in too, many cases the deep cultivator still "gets in" its murderous work. The rootlets or the corn plant love the warmtn or the sostly from two hey spread widely on the surface-so widely that filaments from adjacent rows will meet in the center of the intervening space in a few weeks fiter planting. Whatever disturbs may lend up the amount of nourishment they may sendand reduces the production of corn per acre. So, while the first cultivation, before these spreading rootlets are sent out, may well be close o the plant, anu, say, four inches ccep, no subsedeep. This will suffice to destroy weeds and to maintain a soil mulch for the retention of moisture, as well as to let in air and warm up the
soil. Shallow cultivation, repeated as often as soil. Shallow cultivation, repeated as ofen as racticable, especially after a rain, will sure
'tell'" in increasing the size of the crop.-[C. "tell'

## THE DAIRY.

Some Calf Facts
I have been experimenting some with tiones, raising problem, and will give you a few ingures, first, on the veal calf and was anxious to know whether it would pay o veal the calves. I weigh my milk, so know just how it figured out. At the time I raised the
calf the inilk was worth $\$ 1.50$ per cwt. The calf was fed the mother's milk until it was fit to use, and weighed at that time 83 pounds. I fed two quarts second week, two quarts of new and one of separated third week, two quarts of each the hree of separated. The cost quas, for new milk 470 pounds, at $\$ 1.50$ per cwt., $\$ 7.05$; the separ ated milk cost, a little less than 25 cents, at 20 cents per cwt. This calf learned to eat chop at about a month or, before it, yet it did not eat one dollar's worth which made the total cost, $\$ 7.05$ for new milk 25 cents for skim milk, and $\$ 1.00$ for chop, of
$\$ 8.30$. For it 1 rece:ved $\$ 12.25$. It weighed $\$ 8.30$. For it I received $\$ 12.25$. It weighed 253 pounds, and in eight weeks it gained 170 day. It cost over 14 cents a day to feed the cali. 1 got 5 cents a pound. The gain of thre existed in the weight of the calf when born.
weighed the calf at home, and allowed for shrink weighed the calf at home, and allowed for shrink
age. 1 do not take this as conclusive prof that
it pays to ralse veals, but when situated near it pays to ralse veals, but when stato be worth
good market, I think they ought to be
more.
$\qquad$
 like them to weigh seven hmotred pounds, at least
If calves pay to raise at all, there is protit in
raising the best. 1 sollt onf, tell months oll, io $\$ 40$, and alive ( 75.3 and six months of age, "way iwa quatts of chto had a large bux stan (2) thll in, athl were nev
 had good calves, and, like twts of whers 1 good, and one is inclimell success.
t handy too, and it has a wery thiy nore about the calf than tha not worth raising, I am sorr: in calt-feeding is to start several

Where The ppofit Is.
Since buying a Babcock tést and weighing ank from each cow, 1 have had some facts ascertained in any other manner. One cow which I intended to sell has proved herself to le of double the value formerly placed on her, as hir milk tests 5.4. One reason I was going io scl her was that she did not eat what I though enollgh. I have found out the largest eater think more of the cow which gives returns fo food consumed. In selling cream, it is the high tester which gives the profit. This particula
cow was only dry one month, while some other require three. It takes a year to find a cow out Cothing will pay better on a farm than a Bar cock tester and wéighing milk. Then, too, yuu cannot have things too handy. Study this prob
lem. Every step saved amounts to something i $\underset{\text { a year. }}{\text { lem. }} \mathrm{E}$

## Succulent Feed Daily

Bailey, writing in The Jersey Bulletin gives considerable importance to the value of si-
lage as a succulent feed for cattle. He believes Chat cows should have some green or succulent feen every day in the year. silage gives this, and often needed as much in summer as in win ter. Sun-dried grass is about the poorest milk producing food that goes into the cow's stomach.
Small silos are better than large ones, and one should be kept to supplement short pasture dur sha the dry season. Silage is cheaper, and as
ing
good a feed for cows as most soiling crops com-


Three-year-old Ayrshire heifer, winner of Derb, $\begin{gathered}\text { Strawberry. }\end{gathered}$
$\qquad$ he value of sutumer silage. When the pastur
$\qquad$

## POULIRY

## Gather the Eggs Regularly

Feediling Young Chicks
44 or hours, are not very apt to differentia between what is best and what is not best as or them, and are likely to eat whatever is pu before them, and oftentimes troubles that are mis with later originate from inferior chick food fo dry food should be fed the first week such broken wheat or corn. Allow the chick time get its gizzard filled with grinding material fore such foods are given. Stale bread soaked ailk and squeezed could wish. this with hard boiled eggs, cut up fine with onion leaves an other green food, makes an ideal ration for the young chicks. Give milk to drink, if it can be
procured ; if sour, so much the better. Feed a often as five times a day until they are a coupl of weeks old. Provide grit of some sort, shar sand is good, and gradually add broken wheat t. their ration. As they get older, they may be
fed a dry mash from the hopper. The mash may consist of bran, bone meal, rolled oats, or even crushed oats and a little charcoul. By the time hey are a monch old, all chick foods may have s described above, and milk to drink, may be Farned untl they reach near maturity. Man.

How to Tell Age of Fowls.
itled "Farm poultry," by F. C. Elford, lat manager and instructor in the Poultry Depart been issed. This in published by the College, and is for free distribution in
Quebec. It contains some very valu-
able hints for poulrymen, among them
being the following sugge the following he age of fowling A
$\begin{gathered}\text { A } \\ \text { showlet } \\ \text { peins } \\ \text { rose }\end{gathered}$ - colored ace on the sur-
and the skin
ander the wings.
There will There will also be
silky hairs growing
there here. After a yea lisappear, as do will eins, and the ske rows white and
einless. ference can be seen
at a glance. has pullet that
hot laid will
have the
bones pelvill inges almost touch-
the bedually benes radually widen a
the fowl continues laying, and at two sears old are much further apart than at one
The third point oi diference ant shanks. In a soung bird the skin of the
claw is supple, the stales thin and brilliant. ThU
skin gets coarser atm! stronger and the

## the, which does most of the work when the laict

scratches, gets worn. of the work when the bir acquire wrinkles as the bird gets older, and there
is also a slightl, slopicallad (ith are hecomies more and more pronounced, a Whes also the harrhows of the bore. In young samot year thes are hard, and the end of the keel points of disern chens, athove and beyond thes e spurs to judge by

 The two precnutions which should lue taken wy



## Vegetables for the Poultry,

Farmers' wives all over paring and planting the that they may have a plentiful supply to serve on the put, away for consumption plenty left Most of us err on the right side in producing for the needs of the table, but how many plant enough vegetables that they may have a good supply for the poultry, as well.
As this spring has been so cold and late, there
is still ample time to see about it and provide a is still ample nourishing food for the hens. Beets and carrots may be sowed as late as the end of
June, and set out very late, and set out every late cabbage you can get. You will find, when winter comes that the hens can ta
large quantity of surplus vegetables.
One point in their favor is the increased health other is that they are less liable to eat too much green stuff when they are let out on the grass,
not to mention the saving of grain and the ad dition to the egg basket
Potatoes that are too small for planting or able use should be carefulty washed and baked, and fed to the hens in their mash. Other veg
ables are better fed raw.
0 terot tor home wa, and have terng round
 way in making up for the absence of meat in the grain, and plenty of vegetables to eat, the hens will scarcely feel the confinement necessitated by

GARDEN 袿 ORCHARD.
Lime Sulphup Not Satisfactory on Potatoes. New York) Experiment Station, which gives the results of a comparative test of lime-sulphur, lead enzoate and Bordeaux mixture for spraying poatoes, experiments carried on by F. C. Stewart sulphur solution cannot replace Bordeaux mixture s a preventive of potato diseases. Orchardists ho also grow potatoes hoped that they might the lime-sulphur spray in the field, as well as
the orchard, and dispense with Bordeaux altogether, as it would be more convenient to preare only one fungicic ar proved lime-sulshur harmful to potatoes. The plants in rows sprayed with lime-sulphur were dwarfed by the
fungicide, died early, and yielded about 40 bushangicide, died early, and yielded about
els less to the acre than plants in check rows; while the Bordeaux-sprayed rows produced 100 bushels to the acre more than the checks.
In making the test, the first row of each of we series was left as a check, the second row re ime-sulphur solution (1-40), and the fourth lead
renzoate (1 ib. to 50 gals.). Each treatment was repeated six times, as the season was a long
One, and all the rows were kept free of beetles by The dwarfing effect of the lime-sulphur was
plainly evident by September 16th, and became rally noticeable in October. The plants were merely appearing smailer through lack of foliage, ir the stems were both shorter and of less diamcter on the lime-sulphur rows. The lead-benzoas , better than that of the checks. There was no Pows.
Parasitic diseases were comparatively harmless, there was only a little early blight (very late
the season), and no late blight, but tip-burn ose sprayed with Bordeaux, and injured even se somewhat, especially toward the north end
the field. The Bordeaux-sprayed rows were
By Il partly green when frost came, October had The lead a week or more at this time. The best sible opportunity to exert its stimula
nce, and the thorough spraying may have intest prohably presents lime sulphur in its and

## Summer Pruning

heir pruning in the summer, or at the time the ood growth and temals to further the producWards increasing the growth of the tree. All purpose of increasing the production of strictly
high-class fruit. Do not attempt unless the purpose is understood to prune a tree "hat is required to produce the results wou know In commencing to prune, cut out all dead, dymence at the top of the tree and thin it out so as to the trunk when the tree is finished. In cutting limbs of any size, do not follow the too-frequent practice of leaving a stub of a few inches in length
at every sawing. This hastens decay. The dead tissue forming around the base of the stub forms a ring, at which the decaying stub soon breaks, leaving a hole already commencing to rot, and one of the most suitable places for fungous growths
and borers to gain entrance. The decay pro gresses, and in a very short space of time is eating at the very heart of the tree. It is, there-
fore, important fore, important that all cuts be made as close
as possible to the trunk of the tree or as possible to the trunk of the tree or to the
main limb from which the branch is being severed. Closely-cut limbs leave the scar in such a position that all parts are closely related with
the trunk or main branches of tree, and the the trunk or main branches of tree, and the
wound heals over by growth of new bark around the edges.
In all pruning it is well to use a disinfected saw. Especially is this the case where such dis-
eases of pear blight are known to exist. the saw from time to time in a solution prepared by placing corrosive sublimate tablets in water in-
sures that no disease is spread by pruning. It sures that no disease is spread by pruning. It
is always well to carry a little paint or some substance like coal-tar, to be painted on the wounds where the limbs have been removed, to
prevent the checking of the wood from the action of the sun and rain, hastening decay before it is
thoroughly healed. In removing limbs, care should be taken to jury. If a large limb is cut from the top, it very often splits off and peels the bark down for
a considerable distance on the remaining limb or trunk, thus causing a permanent injury to the tree. In order to avoid this, begin with a cut on the under side of the limb, a short distance
from the junction of the limb with the trunk. A from the junction of the limb with the trunk. A
shallow cut will do here. When this is made, the cut from the upper side, and close to the body
the tree, can be made with safety. Of cours any limb that can be cut with the pruning shears be taken with even these that they are cut close to the main branches from which they spring.
Pruning should only be done by a careful, experienced man. It is no job for the novice or care
less person. It requires care to shape a tree so That the sun gets the best possible chance to color
the fruit, and at the same time keep the tree the fruit, and at the same time keep the tree
growing in the best manner to insure yearly fruitgrowing in the best manner to insure yearly fruitload. Weigh the matter carefully before removing each limb. It requires quickness of decision, that the work may he accomplished rapidly and

## Topical Fruit Notes

in full, the Niagara district experienced cool, damp weather. Very rarely did the sun peep tinued raw and cool during all that period. However good this may have been for the extensive
plantings that have been made, and also for any trees or bushes that came through the winter in
a weakened condition, it certainly is far from ideal weatiner for perfect pollination. Just to what extent such weather is injurious, it is im-
possible to say. I am aware of no exact inforpossible to say. I am aware of no exact infor-
mation.
But, from inference and general observation, there is probably little doubt but what the fruit will not set nearly as well as in warm,
hright weather. For one point, our bee and insect pollenizers could not work.
Several times I have mentioned the good prices prevalling for fruit last season, and the high coming season's delivery. For instance, last and red currants $4 \frac{1}{2}$ to 5 cents here. Imagine y by a local contemporary, which states ambs netted 8 to 9 cents per quart, and raspberiwe 9 to 12 cents, and that these figures are not anment. And the journal was strongly anti-
reciprocity, because of the danger of lowering the prices of Ontario fruits, owing to competition New York State. Are there any extenuating cir cumstances?

The local dealers and fruit companies are now beginning to brush up and organize for the comof June. There promises open about the midde of them, and if one were to take count of all of and near dealers-they would not fall much short of thirty or forty. It may seem, at first sight that this is good for the grower, because the competition is keener and, therefore, prices better
But is it? If there is competition in buying there must be competition in selling, with a tendency to cut prices so as to obtain business Every dealer works on a good profit of from 20 are thirty or forty offices to keep up, with at tendant expenses. The buyer is surfeited with weekly quotations, until he must be disgusted are not at all oble to fll orders with despatch or satisfaction to the buyer. Orders are often filled with any' stuff at hand in the hope that it wil go through and be accepted. Long credit is giv mount up and become a considerable proposition. Poor fruit is often refused by the buyer, and be comes a total ioss, or is sold to pay expres
charges. The express companies are charged up charges. The express companies are charged up
with this, and a claim made against them gamble that they will pay. Legitimate claims thus suffer, and the express companies are blamed for all. Who pays for it all? The dealer or the expres
pays.
with our inferior fruit This is always a live and vexatious question during the fruit season. In the first place, through with lucky escape from hail-storms, we should have as little inferior fruit as possible. But even with the best of care, there will be a considerable mands a dispose or. The order business de but the great outlet for this class of fruit should be through the canning or jam factories and evaporators. Thrown on the market indiscrimiquality of fruit, and the grower loses all around.

## THE FARM BULLETIN.

An Illuminating Merger.
The Royal-Trader merger and the discussion it has provoked has thrown a strong light on the selves. Although the Chartered Banks already have a monopoly such as cannot be found in any other country, the leaders of High Finance are no
satisfied. Within their own charmed circle they satisfied. Carlyle's "t pitcher of Egyptian circle the each trying to get its head above the others.' While in their attitude towards the public they are held together by "the cohesive power of public plunder," among themselves they are carrying
on a war of extermination. In all the disastrous bank failures of the past few years, we have had the painful spectacle of the Banker's Association crowding the mournes in its haste to get the for supremacy has now taken the form of mergin rival banks, so as to build up institutions tha can endure the struggle for existence. Now tha the same class with the Bank of Montreal it rumored that the Bank of Montreal will take in the Royal-Trader combination so as to be able to retain its haughty supremacy. If this should b
done, the smaller banks would be forced to comdone, the smaller banks would be forced to com-
bine into new great institutions or be swallowed by their big rivals. The battle that is being waged is profoundly interesting "to one that hath no frienc nothing so much as a couple of bull moose so intent on their own fight that they do not see the approach of the hunter who intends to bag them both. The people of the country are to understand what it means to them. It means a money trust that will place all the business o the country at the mercy of a few men. This is not a thing to be endured, and, thanks to the ex-
hibition the banks are now giving, it will not be endured. When the Bank Act comes up for re vision at the next session of Parliament, public sentiment will force a revision that will place
Canadian finance on a sound basis. The mystery Canadian finance on a sound basis. The mystery
of banking will be probed by the plain people
whose interests it is supposed to serve. will be help to found that legitimate banking is no mystery at vision of the Bank Act at the next session of Parall, but a clear business proposition that will bear the light of day

There are many reasons why it would be dan gerous to have the banking isw bigs of the cou try conducted by one, or a fould place t: accumulated weaith of the people in the hands of a few mon who could not possibly deal with the many and complex business interests of the country
with knowledge or justice. Even as matters now stand, credit is extended to business men in the smaller places that are served by branch banks in a haphazard way that cannot long be endured. couple of years ago, a Toronto business man quoted in this connection, told me of an incident that came under his own observation. He happened to be in the office of a bank manager when
a clerk brought in the applications for loans which the managers of the branches had referred to the head office for approval. The manager looked at the total amount and exclaimed "We can't lend that much tb-day.
lend only about one-third of that amount." Then, without consulting the correspondence of his branch managers and trying to decide whose need was the greatest, he took a lead pencil and
checked off every third name in the list. " There," he said, as he returned the list, "we
will accommodate those whose names I have checked off.'
feems incredible that this should be true, but I have every confidence in my informant, and
what I have heard from business men in the smaller places convinces me that they are often the victims of just such methods. It is easily conceivable that the refusal of a loan might mean
ruin to a small concern, but that would be of no importance to a busy manager hundreds of miles away, in Toronto or Montreal. And yet it is the sinall concerns in the country that must be fos With smaller banks, to which the business of the small concerns would be important, such arbitrary tratment as I have described would be impossible. But, with big banks having many branches
it is inevitable. To the big banks the branches are valuable not as outlets for idle capital, but as borrowing institutions, and it is well known that
the efficiency of a branch manager is now deter the efficiency of a branch manager is now deter
mined by the amount of money he can borrow mined by the amount of money he can borrow
from depositors and forward to the head office.

Besides the injustice to small business concern under the present branch-bank system, there is an
ther very dangerous feature. Every big concer other very dangerous feature. Every big concern
is practically directed by one man, or, at least he has the say, and there is no man living wh
is so much head and shoulders above his fellow in business foresight, and able to say just how far
credit should be extended to any big concern, as credit should be extended to any millions of the
to be entrusted with the many min people's savings that a bank with unlimited
branches can gather. And even the smartest banker is liable to be carried away by the glib
talk of slick promoters. But even if the security talk of slick promoters. But even if the security
offered by a big concern needing inuch accommodation should be of the very best, it is seldom
that promoting the growth of such a big business would be for the good of the country. The money
of the people should be used to promote such of the people should be used to promote such
forms of business as are directly beneficial to the so big that all the will care for is the account of trusts and inergers whose sole marpose is ti
exploit the country. It is reasonable to believe leal with big concerns that cach control a
ticular line of business is that some of the managers and bank directors are personally in from this line of banking do not find their wa into the pockets of the bank shareholders, but inAs a matter of fact, the loans matle to small . cerns and to individuals carry a higher rate $\quad$ "
interest than those made to concerns that require millions. Under the present system, the wh, ic endence is towards the creation of giant banking concerns all promoting different forms of Big
Rusiness. The banking business, as the leaders epositor whose money is ricked, unprofitable t the bank shareholder, who does not get the prof
is that iegitimately, belong to him. and against its that iegitimately belong to him. and against the hest interests of the people as a whole liw reate mompolies. And the more the bamking

Theorerically, the Canadian banking system is Theoretically, the Canadian banking system is
admirable. Its, purpose was to promote strong banks, give the people a flexible and sound curavailable at all capital so fluid that it could be most needed. Unfortunately, those who control able financial machine, so that, instead of distributing money and developing the whole country, by giving credit to deserving small concerns
in places served by branch banks, the branches in places served by branch banks, the branches
bleed dry the small centers. Instead of distributing the accumulated savings of the country where money is most needed, our reversed system concentrates it in Montreal and Toronto, where it can ir controlled by a few men who use it for
their own advantage in ways that are inimicable o the best interests of the people who provide the money by their deposits. I can imagine a millenium, in which our banking system, as origi-
naily designed would be ideal, but I have no hope of finding it on this sinful earth. In order to give us the proper results, all bank managers, directors and officials would be public-spirited the general good. But alas, those who manage and control the banks are very like the rest of us. They want to get rich, just like everyone else, and they have found that, hy reversing the gear if the financial machine, they can make the bank
ing institutions serve their selfish purposes. ing institutions serve their selfish purposes, incountry, Seeing that they are so very human, the only thing we can do is to reform the bank-
ing system, so that it can be entrusted to the managenent of ordinary selfish people like ourselves. As yet, the precise method of doing this is a matter of debate, but public opinion is
forining rapidly, and I hope before long to be able orining rapidly, and I hope before long to be able ing the matter serious thought, and outline the scope of the reforms that must be insisted upon. But even now most people are quite clear on the point that there must be a rigid Government in-
spection of banks to prevent dangerous use of the depositor's money, a limitation of the branchhank system which tends to concentrate the capismall group oí banks shall be allowed to controt our finances. If we are to have a central bank, as they have in many European countries, it must be as completely under control as several hanks are in those countries. Banking can no longer be privileges from the Government. It is a form of public business, and must be absolutely under
Government control.

New Method for Determining Fat and Salt in Butter
ment of Agriculture, calls attention to a new test for fat and salt in butter, which tis described in inst issued by the Department. This test was invented by Roscoe H. Shall Chemist in the Dairy Division, and is especially
iesigned for use in creameries. The circular explains the apparatus in detail, and gives complete instructions for operating the test, placing in the und accurate method by which can be determined th. percentage of fat and salt in butter, and which, in connection with one of the reliable mols-
hire tests already in use, makes possible the comWhe analysis of hutter right before the churn.
The new test for fat will prohably not require more than five dollars' worth of apparatus hesid
hat already on hand in most creameries. Th Thie special apparatus consists of a separatory atory fimmel is essentially a cylinder holdinn whout two and a half ounces, constructed with chass stopper at the top and a stop-cock in a ${ }^{\text {c }}$
nillary twhe at the hottom.
necessary to special socket

The washing ont of the salt frome a weighem charge of the butter with hot water, the dissoll
method. A little more time is required if the The new test has wanten thoroughly tried out in
The nen the comparison with the official laboratory methods

## Let the Toad Live.

## Editor "The Farmer's Advocate": F. C. Nunnick, Agriculturist, has lately

 printed in "The Farmer's Advocate "a plea for am going to put in a plea for a more humble common of gardeners and fruit-growers, viz., the inofiensive litle greal mapulsive but, although forbidding in appearance, I think that a closer study of its habits and usefulness would prove see him begin to hop about when the heat usualls day has passed, and, if closely watched, you will observe him peering into every corner, under plants and leaves, looking for any insects tha may be hiding there. long tongue out, and, catching his victim on its slimy end, soon has it placed where it will fur nisil strength to catch more of its kind. Al the enemies of the vege keeps up his hunt for until he has fully satisfied his voracious appetite He then seeks a cool, shady spot where he mas be at ease until another twilight.Instead of harming the toads in any way or teaching the children to dislike them, we shout teach them to welcome them in our gardens. We
should teach them how useful the toad is, and instead of being afraid of them, have them stud, them as they would a hird or a fish, or any other beautiful object of nature, and I am sure that in
very short time their dislike and aversion wil

## Imported Forage-Plant Seeds.

line United States Secretary of Agriculture tas examined a considerable Laboratory, which orage-plant seeds, imported into the. United onsisted of seed of low vitality and high weed. content, said: lover, red clover, white clover and hairy vetch amounting to 225,780 pounds, showed that the 23 per cent., respectively, of the consignment, 30.5 , and 77 per cent., $\quad$ respectively.
ponsequently, though this seed was imported at a cost respectively, the actual cost of per 100 pounds of seed that germinated was $\$ 44.35$ for alsike clover, and $\$ 23.29$ for hairy, $\$ 111.86$ for white clover, ". A special exam:ination of seed of are hover and red clover imported of seed of alsike
iny 1911 showed that approximately one-half durunsalable for seeding purposes in that country, the Seed Control Act there prohibiting sale when are found to the pound. Que lot of seed of al-
$\qquad$ cent. of the entire bulk. This particular lot
"ontained approximately $1: 35,000$ weed seeds in (1)
"ach pound."

Ispael's Preach.omberl these uniust conditions will become. It reaction.

THE FARMER'S ADVOCATE.


Ohio, 36 per cent.; Nebraska, 58 per cent.; Kan-
sas, 40 per cent.; and Missouri, 26 per cent. sas, 40 per cent.; and Missouri, 26 per cent.
Seed is testing lowest this year in the Dakotas and Nebraska. the average of reports being about 75 per cent.; in Iowa the average is 83 per cent.; in Illinois, 85 ; Indiana, 87 ; Ohi, 81; Wiscon-
sin, 83 ; Minnesota, 80 ; Missouri, 87 ; and Kansin, 83 ;
sas, 86.

Minesota, 80, Missour, 81; Although the correspondents were not requested
report upon the quality of two-year-old seed to report upon the quality of two-year-old seed
corn (1910 crop) and one-year-old (1911 crop) corn (1910 crop) and one-year-old (1911 crop)
separately, some of the correspondents voluntered separately, some There is unanimity in these reports from Ohio westward to Nebraska, that the seed corn from the 1911 crop is decidedly inferior,
the average of the figures given by those volunthe average of the figures given by corn, and 93
teering this being 50 for the 1911 corn, foering this being 1910 corn. The seed corn is being se-
for the
lected very largely from the 1910 growth.

## In Provincial Cipcles.

(Editorlal correspondence.)
The King's Printer of Ontario is a busy man Mountains of documents surely verify this stat Cameron on the true-blue covers and white title pages of hundreds of thousands of publications more or less important, that find their way yearl through His Most Excellent Majesty's mail-baga Buildings on Queen's Park, Toronto. Not that the "K. P." aforesaid actually sets up the type for that is a fast-passing art, nor even does he manipulate the type-setting machine, though there was a time, long ago when, in the sombre, erst while quarters of the London Advertiser, he wrestled in emergencies with a "stick." Next to the pen and ink used by Col. Matheson, the worthy Provincial Treasurer, in signing fay popular material in the headquarters of the most tario. Publicity is the order of the day. Thank goodness, we are not in Russia! Ontario official dom cannot be successfully accused of hiding its light under a bushel or withholding information from the people. Of new bulletins of a practical out last year some 210,000 copies, and 35,000 crops and municipal matters, besides the mor ponderous reports, these aggregating a total o some 274,800 copies. It is coming to be a serious question in the mind of the new Deputy Minister of Agriculture, Mr. Roadhouse, whether the results are commensurate with the volume of publications and the outlay; or, as a matter of rec-
ord and reference, whether a great deal of it does ord and reference, whether a great deal of it does
not border on the needless, especially when the growth, vigor and activity of the agricultural
press in covering these fields is taken press in covering these fields is taken into con-
sideration. Conditions are not as they once were. It is just possible that this species of em-
balming the gittering generalities delivered at half-forgotten public gatherings months ago, has
reached its limit. Other matters not more useful might also be found falling into the same innocuFARMERS' institute EnLIVENMENT. Substantial increases in the organization of
farmers' clubs throughout Ontario is an encouraging fact noted by Geo. A. Putnam, Superintendent the useiulness of small groups of farmers getting of vital interest to themselves or their communities, and when a group of clubs band themselves in Waterloo and other counties, they are able t
achieve very tangible results. Where clubs exist the Institute meetings are usually reported good.
In some sections of the province, as readers of "The Farmer's Advocate"" are probably aware, lar Institute work, and its continuance may in
measure depend upon evidence of keener interest to qualifying the official workers. It is hoped t have special courses in stock and seed-judging
practically every county in the Province next se son, and, where there are listrict Representatives,
more than one course will be held. Last season pected for the seaso
Institutes, of which the
a membership of pecially in promoting
better books. There is an encomparing demand for interature, and more attention is mems paid the evidently awake.
partment of Agriculture were satisfied with the mand, Welland and Brant. There has been house interest taken in the "Better Farming Special" cleaning in some of the older ones, and once thy train last spring, which, despite of unfavorable question of Provincial incorporation of a cen
weather, drew an attendance of about 18,000, or association to facilitate buying and selling weather, drew an attendance of about 1,000 per day, and other roads will probably share in such work next season,

Stallions must be enrolled.
The outstanding event of the year in the On tario Live-stock Branch will be the inauguration Act which became law at the last session of the Iegislature. The crucial section (5), which requires that no person shall stand, travel or offer ar use any stallion until his name, description of such earollment procured, goes into effect on August 1st next, so that the time for providing is opportune machinery is at hand. The measure joys a period of great prosperity, but many fore shadow conditions approaching when, by reason
of the competition of other forms of locomotion and possibly over-production in horse-breeding, demand and prices may lose their buoyancy. For
the draft type of horses this may not come so soon, but everyone concerned for the future of the industry must see that now is the time to place it upon a more secure and systematic basis by a
process that will in time eliminate the undesirable process that will in time eliminate the undesirable the rank and file owners of breeding mares. Hon. Jas. S. Duff, the Minister of Agriculture, stood sponsor for this bill in the House, and probably gauge his capacity and firmness as an administrator. It is, in fact, regarded as one of the chances of a lifetime to effect lasting good to of all, there is the choice of the country. First ment Board af four persons. With them, the Act itself designates as secretary and executive officer (A. Director of the Provincial Live-stock Branch capacity in this field of work is a re-assuring guarantee to the public at the outset. Ample knowledge and determination will be all-important the country will presumably be divided into dis tricts, with persons to be appointed by the Minister as Inspectors, under the direction of the Board, three of whom will act as committees in
making inspections. Upon the competence and probity of these officers, the successful working of the Act will largely depend, and, obviously, they must have the approving confidence of the Board By going into enfect on August inrst next, time in motion before the next breeding season. As secretary and executive officer, the Act will add
heavily to the duties of Mr. Westervelt, diers urgent the choice of an efficient assistant ren take the place of D. T. Elderkin, who has re now important to be borne in mind that the own er of every stallion shall submit to the Board all payment of the fee the Board shall issue a cer tificate accordingly, and these are to be renewed may he inspected the by the owner, any stallion part of the record of enrollment. The shall form not require that stallions be pure-bred or regiso he enrollen, so that the enrollment certificate carrying-out of the Act, and in time the seemingly
aviden tightened up. Aiter all the labors of can be the public will assureding, require more from the
administration of the Act than a means of sup Ilementing Provincial revenue. For the encour and whose breecting quatifies them for standing in
the Aational Records, these facts should be so presented in the certificates of enrollment that
they will be self evident to the most uninformed. Who will thereby be protected from inferior, grade
or scrub, hores. In all advertisements or posters the certificate is to bee a plain and integral part. Ing. Persons who breed mares have the right
demand to be shown the original enrollment tificate of the stallion. The The fees are. for entoll
ment. $\$ 2.00$ for inspection 850 . for rencwal ment, $\$ 2.00$ for inspection, $\$ 5.00$; for renewal
$\$ 1.00$, and for transfer, $\$ 1.00$. The penalty foul breaking any of the provisions of the Act is
fine nont exceedine $\$ 100$ nor lecs than $\$ 25$. owratle inder the Ontario Summary Convictio OXTARMW EIINES IN HORTICUTATIRE
satisfactorily adjusted and the aid of an efficient manager enlisted, the business is confidently pected to enter upon a new era of progress. It in June. P. W. Hodgetts, secretary of the Ontario Fruit-growers' Association, reports helpful work being done in forty or fifty demonstration rops, etc Old canning-factory plants are being enlarged or renewed, and new ones established. The prices contracted for tomatoes and other hops are more encouraging this season. We "The Fruits of Ontario," published in 1900, as one of the most valuable ever issued by the Department, and, as the supply of copies is about exhausted, it is gratifying to know that a new
edition has been undertaken, which it is hoped to have ready for distribution before next winter. We presume the general plan of the old volume, which could not greatly be improved, will be folvarieties and cultural methods as will bring it up to date. The time is opportune for a new
dition, when so many are embarking in fruit edition,
In field-crop and vegetable-growing competi tions, and in the branch of agricultural so-
ciety exhibitions, there is naturally manifested a great deal of the versatile dynamics of the secretary and superintendent, J. Lockie Wilson, whic
beyond. people roads and and
If it be desirable that Ontario, old and new, south and north, have a greater farming popula happy and prosperous conditions, and that its marvellous opportunities for material advancement.
be given reasonable development, there was surely never presented, than in the Province to-day a greater field for colonization nor a greater need sense, the one is the and maintenance. In a is not reasonable to expect that people either in an old or new country will long be content if firced to endure the loss and hardship of travelDepartment of Public Works an increasingly active and practical campaign is proceeding under the
direction of W. A. McLean, who, it will be remembered, superintended "'The Farmer's Advocate " split-log-drag competition a few years ago.
In addition to the services of $A$. Sedgewick, he has lately been fortunate in securing another efficient ally in A. W. Gray, who for several years
has been in charge of the good roads construction campaign in Frontenac County. Some twenty oad-improvement scheme, so that the provincial oversight necessarily grows. Well-approved plans out, the public is entitled to expect where public their own permanent interests by co-operating order to the thorough carrsing-out of specificaIn the Colonization Branch of the Department Macdonnel, particular at superintendence of H . ous as this season. Malp, probably never so seri-
oopic were offered by Mr. Maggestions on this issue. A large and healthy inflow of population (
the work is being carefully looked after both a
its British and Ontario ends. As an encourage
ment to those desiring to go north to the new
districts to take up land and to farm, a special
passenger rate on the railways has been arranged. credit of this country is liable to be prejudicially
affected in the Old I.and by the floatation of
arenlymal schemess liable to disappoint inexperienced in-
vestors. But British investors are not the only day's issues of a few prominent canadian newsReal settlement on the soml, and in land is rife.
bling, is what gamthe land "just moms town lot or railway town"this. There are alwavs a lot of "last men ",
 wxistence semmen 23 ,on to local co-perative


MARKETS.
Toponto.
Toponto.
At West Toronto, on Monday, May 27,
receipts of live stock numbered 109 cars,
comprising 1,924 cattle, 1,189 hogs, 206
sheep, and 116 calves. good; trade brisk; prices 15 c . to 25 c . per cwt. higher for butchers' cat tle. Ex- Ex-
porters, $\$ 7.50$ to $\$ 8$, butchers' steers, ex porters, $\$ 7.50$ to $\$ 8$; butchers' steers, ex-
port weights, $\$ 7.25$ to $\$ 7.75$; butchers' steers and heifers, good, $\$ 7$ to $\$ 7.50$ meerium, $\$ 6.50$ to $\$ 7$; common, $\$ 6$ to
$\$ 6.50$; cows, $\$ 4$ to $\$ 6.75$; bulls, $\$ 5.50$ to $\$ 6.50$; cows, $\$ 4$ to $\$ 6.75 ;$ bulls, $\$ 5.50$ to
$\$ 6 ;$ milkers, $\$ 50$ to $\$ 95 ;$ calves, $\$ 4$ to $\$ 6$ milkers, $\$ 50$ to $\$ 95$; calves, $\$ 4$ to
$\$ 7.50 . \$$ Sheep-Ewes, $\$ 5.50$ to $\$ 6.50$
rams, $\$ 4$ to $\$ 5$; spring lambs, $\$ 4$ to $\$ 7$ rams,
each.
Hogs,
Hoge
Hower, $\$ 8.75$ fod and watpeview of last werk's markers REVIEW OF LAST WEEK'S MARKETS
The total receipts of live stock at the City and Unio
were as follows

two yards for the corresponding week
Cars
City.

 track, lade
ern extra No. 1 feed, 50c.; No. 1 feed
49 c ., track, lake ports; Ontario No. 48 c. to 49 c .; No. $3,47 \mathrm{c}$. to 48 c ., outsi
points; No. $2,50 \mathrm{c}$. to 51 c, , track, To pointo. Rye-No. 2, 85 c . per bushel, out
ront. Re.
side. Peas-No. 2, $\$ 1.20$ to $\$ 1.25$ pe
ber bushel, outside points. Buckwheat- 720
to 73 c . per bushel, outside. Barley-Fo to 73 c . per bushel, outside. Barley-Fo
malting, 87 c . to 88 c . ( $47-\mathrm{lb}$. test); for
feed, 60 c . to 65 c . Corn-No. 3 Americar yellow, all rail from Chicago, $85 \frac{1}{2}$. wheat patents, \$4 to \$4.05, seaboard. Manitoba flour-Prices at Toronto are
Finst First patents, $\$ 5.70 ;$ second patents
$\$ 5.20 ;$ strong bakers', $\$ 5$ in inte and $\$ 5.20$ strong bakers', $\$ 5$ in jute, an
 Straw- - Baled, car lots, track, Toronta
$\$ 9$ to $\$ 10$ per ton. Bran.-Manitoba bran, $\$ 25$ per ton
shorts, $\$ 27$; Ontario bran, $\$ 25$ in bags
Ghorts. $\$ 27$, car lots, track, Toronto. COUNTRY PRODUCE.
Butter. - Market seamer
steady.
Cres.

in

$$
\begin{aligned}
& \text { Beans. }- \text { Market firmer. } \\
& \text { primes. } \$ 2.70 \text {, and hand-picked, } \$ 2.90 \text { pe } \\
& \text { bushel. } \\
& \text { Totatoes.-Ontario potatoes, car lots }
\end{aligned}
$$

$$
\begin{aligned}
& \text { luoted at } \$ 1.60 \text { to } \$ 1.70 \text { per bag, track } \\
& \text { Poulte. } \\
& \text { Pory.-Receipts light. I.ive poult }
\end{aligned}
$$

Nome
$\qquad$
$\qquad$
basket, $\$ 2$; asparagus,
spinach, Canadian, 40c, per basket, rad-
ish per hamper, $\$ 1.25$, beans, green, ham-
per, $\$ 3 ;$ wax beans, $\$ 3$ per hamper; pine
apple, $\$ 3$ per case; strawberries, Caroapple, \$3
lina-grown,

Montreal
Live Stock.-On the local market prices were firm, reCeipts in Montreal not being very niberal. American buyers have been making purchases of cattle throughout
Ontario of late, and as a result there is

Feed.-Demand is active, and millers
asking purchasers to take a proport
of flour. Prices are steady, at $\$ 25$ $\$ 26$ per ton, in bags, for bran: $\$ 27$
$\$ 28$
$\$ 34$
for shorts;
$\$ 29$ for middlings $\$ 28$ for shorts; $\$ 29$ for middlings, ant
$\$ 34$ to $\$ 38$ for pure grain
$\$ 28$ Hay--Hay has again advanced, and is
extraordinarily high, owing to den is from United States.. N No. 1 hay is is $\$ 21$
to $\$ 22$ per ton; No. 2 extra, $\$ 19.50$ to
$\$ 20 ; N o .2$ guod. $\$ 18$ to $\$ 18.8$. $\$ 15$. \$20; No. 2 good, $\$ 18$ to $\$ 18.50 ;$ No. 3
hay, $\$ 1$ to $\$ 16.50 ;$ clover mixed, $\$ 15.51)$
to $\$ 16$. Seed.-The $\qquad$for alsike and red clover, and 14c.
19c. .or timoth, f. o. b., Montreal.
Hides. - SpringHides--Spring lamb skins are now 15
and sheep skins, $\$ 1.10$ Beef hidesand sheep skins, \$c. per 1b., for Nos. 3 ,
$11 \mathrm{c}, 12 \mathrm{c}$ and 13 c .
2 and 11 hides, respectively. Calf skins
are 1 c . and 18 c . per lb.. and horse

Chicago.
Cattle.-Nees, $\$ 6.10$ to $\$ 9.40$; Texas
$\$ 67.90$; stockers and feeders, $\$ 4.40$
$\$ 0.90 ;$ cows and heifers, $\$ 3$ to $\$ 7.90$.
calves, $\$ 5.50$ to $\$ 9$.
Hogs.-Lisht. $\$ 7.10$ to $\$ 7.65$.
 Shep and Lambs.-Native, $\$ 3.75$ to
$\$ 6.35$; Western, $\$ 4$ to $\$ 6.40$ yearlincs $\$ 6.35 ;$ Western, $\$ 4$ to $\$ 6.40$
$\$ 5.50$ to $\$ 7.50 ;$ lambs, native
$\$ 8.90 ;$ Western, $\$ 5.75$ to $\$ 9.10$

Cheese Markets

## Belleville, Ont., 13 inc. to 13 9-16c., ondon, Ont., $13 \neq \mathrm{c}$ c.; St. Hyacinthe, Que.,



Buffalo.
$\qquad$

British Cattle Market.



Little Trips Among the Eminent
Ir Joshua Reynolds
Britannica, and biographies by William Martin Conway, and others.] in England achieved a point of excellence the great art of Europe, a time at which
distinctively original and typical characteristics appeared, so that the artists
of EEgsland might be correctlyy said to
one remarkable that the irst "school" should be in portrait painting
It was, perhaps, inevitable that the painters ol the time should devote them-
selves chiefly to this class of art. The period was one of action, of war-of the
French
Revolution, the revolt of the American Colonies, the roubles in
that ted, through the genius of Warren
Hastings, to the consoliditation of a great British possession in southorn Asia. It
wras a time, toon of great thinkers and was a time, too, of great inners news
statemene, a time when, in the news
papes of the day, names of such men as
Pitt, and burke, and Grattan, and Fox, 6

##  <br> 

Reynolds soon, however, tired of Hud-
son's men in velvet and much-beflounced
ladies. He had his
ladies. He had his own idebe of art,
his own ideals for expressing his own ideals for expressing, above all
things, character, through features and
pose, with comparatively pose, with comparatively little attention
to mere details of present fashion or
fabric fabric, so in two years he lett the studio
and returned to Devonshire, setting up and returned to Devonshire, setting up
for himself as portrait-painter at Ply-
mouth Dock. Possibly commissions did not at first
come in thick and fast, for several more come in thick and fast, for several more
fluctuations between London and Plyfluctuations between London and Pry-
mouth ensued before the young artist
finally settled down in the former city with a clear probability of a good liveli-
hood and of an extended scope for his hood and of an extended scope for his
genius before him. In the meantime, he had had opportuuity to study the fine
effects of flesh-texture by William Gandy effects of flesh-texture by William Gandy,
and had made, through his courtly manner and made, through his courtly manner and impressive personality, some in-
fluential friends who were soon to stand
him as benefactors not to be despised. him as benefactors not to be despised.
Among these was Viscount Keppel, who, on hearing of his great desire to
study Italian art, invited him to accompany him, in his own ship, the CenCurion, on a trip to Italy. Reynolds
glady accepted the opportunity, and for gladly accepted the opportunity, and for
the next two years spent the greater part the next two years spent the greater part
of his time studying the works of the
great masters in Rome, Florence, and Venice. At first he was greatly disap-
pointed in the works of Raphael, but before long he confessed that he had been
in the wrong, and to the end of his
career the influence of the masters might be recognized in many of his works,
especially in his groups of mothers with
their children, posed somewhat as were St. John, over which he had so often pored, and clad, with the tastion his own
time thrown aside, in drapery of his owne all was he influenced.
imagining. Above all for all time henceforth, by Michael
Angelo, whom he never ceased to regard
with an admiration akin to worship. A less happy effect of his sojourn in
Italy was the deafness succeeding trom a cold which he caught there, and from
which he was never able to rid himself. On his return, via Paris, he again ommendations of Keppel (of whom he had
painted a portrait) and others, was immediately overwhelmed with orders. Men
and women of fashion and wealth flocked to his studio, each anxious to be painted
by this good-looking, dignified and courtby this good-lookng, could make each
ly young artist, who cont He was invited
and all look poetical. to the homes of the great; he Pormed
friendships with Fr. Jonnson, Burke,
coldsnith, Garrick, and Sterne; he soon began to live in a style that comported
with his prosperity, keeping liveried ser-
wants and a showy coach, with gilt


The Age of Innocence, Other six being Titian, Giorgione, Cor-
reggio, Tintoret, Veronese, and Turner He also says of him, "Considered as a painter of individuality in the human form and mind, 1 think him, even as it
is, the prince of portrait painters." About 1789 Reynolds' eyesight began to fail, and three years later, on Feb-
ruary 23 rd, 1792, he succumbed to an acute attack of liver trouble. and the bulk of his fortune to $£ 100,000$, with works of art which sold for $£ 30,000$, was left to his niece, ributed in legacies to other friends.

Mr. Capnegie's Advice to Gipls.
Andrew Carnegie was introduced to the
girl employees of a newspaper offlce in girl employees of a newspaper office in advice which is worthy of a wider henr ing than it received at the time. After contrasting the happiness of toil with the disadvantages of being born rich, he said: Thost millionaires' wives are not happy. mental resources to fall back upon. Dou't refuse a man simply because he is a millionaire. I would rather be born
poor than a millionaire. I have hat some experience in both directions. I time, but I want to say the only right by some useful labor. The great trouble with the wealth of to-day is that the sons of millionaires do not realize the munity. I shall never for cet how proud I was when I got my first wages of
$\$ 1.25{ }_{a}$ week, and how I felt when I was To take home that sum to my good mother gave me such a feeling of manly independence. I owe a great deal to my
mother. She was a seamstress washlady, and never until laté in life had a servant in the house. And yet she was a cultivated woman. She read
Channing and kept up with the of the day. When I was a hittle tot she young women have every opportunity for literary culture, and you ought to avail
yourselves of it."
This common-sense encouragement to industry from such a source will do a world of good, and his excellent tribute to his washwoman
mother is tender and beautiful beyond expression. His tribute to his mother's industry and virtue calls to mind the description of the ideal wife and mother:
household, and eateth not the bread of idleness; her children arise up and call
her blessed." -(Prov her bles
Onward.

Hope's Quiet Hour. Difficulties of Unbelief. Then said JESUS unto the twelve,
"Will ye also go away?" Then Simon Peter answered Him hast the words of eternal life."-S. John " There is no unbeliet
Whoever plants a seed beneath the sod, And waits to see it push away the clod, We hear so much talk about the "diff culties of belief," that some halt-doubtful Christians become quite apologetic for
their belief. Instead of glorying in th Name of their Great Master-the Name which, even from a worldly point of view towers infinitely above every other name Which any man has borne from the be ginning of the worla-they shrink back ashamed when an unbeliever accuses them backs. There are plenty behind their of belief,", lite would be very difficulties interesting if we had learna there is to know and our eager mind were forced to rust from disuse always will be difficulties of belief-i this world, at least-thank God. When we can understand all the mysteries of the Infinite God, then our minds will be infinite, too. Until that time arrives we are children in our Father's grea school, making progress more or less classes to grasp the meaning of things which will be quite clear when we have studied longer
But, when men talk scornfully about the "dimculties of belief," they have evidently not faced the fact that the "diflculties of unbelier" are thousands of times harder to surmount. Whichever side we lievers have chiefly physical difficulties t get over, while unbelievers have mora
difficulties, difficulties. Our belief in apparent im possibities, which are merely physical, diable evidence of other people. We are all like the Queen in "Alice Behind the Looking-glass," who-with practice-found Luokinge eass, to believe a great many
impossible things before breakfast.
it impossible things before breakkast. It It
seems quite impossible that a big yellow seems quite impossible that a big yellow
pumpkin can come out of a dead-looking pumpkin can come out of a dead-looking
seed, or a big stak of corn out of
small kernel. More impossible still is small kernel. More impossible still is
it that the pumpkin should contain man seeds, each capable of growing into pumpkin, so that out of one seed might
easily come millions of pumpkins. And that is only one thing. Every seed you
sow is trustfully put in the ground in the expectation that an apparent impos sibility will be the result. If a man
who had always lived in the frozen who had always lived in the frozen
North, without any information about your orchards and be told that the beau your orchards and be tasteless blossoms would mys
teriously change into delicious apples
ter teriously change into delicious apples,
plums or cherries, he would say you wer plums or cherries, he would say you were
expecting him to , ,elieve an impossibility
But when every expecting evin when every farmer told him the same thing, he would be a fool unless he be
lieved it-although it would still appear lieved it-although it would still appea
as impossible until he got used to it as imposs bees in wonder, you farmer
Open your eye
who are allowed to help God in working His yearly miracles. You put hard lit
tle seeds into the ground-that part tle seeds into the ground-that part i
simple and easy-then God sends Hi wonder-working magicians (sun, rain and
air) to wake up in each seed that most air) to wake up in each seed that most
marvellous thing of all, LIFE. In the
mall you father in the fruit, grain and marvellous thing of all, LrFEE. In the
fall you father in the fruit, grain and
vepetalles which have come out of the

## before. Why should we not be filled

 with wonder each year, as the men andwomen wondered when the loaves and women wondered when the loaves and their need. We should starve, every one
of us, unless God every year worked apof us, unless God every year worked ap-
parently impossible miracles for us. Is
anyone foolish enough to say ". "Ion't
plant any seeds until I can understand
how and why they can increase?" We
are all like the child who-when watching chickens hatch in an incubator-re
 pant see how they get in. The ap-
parent impossibitity of cickens getting
into sealed cases, where there were no into sealed cases, where there were no
chickens before, does not keep anyone from acting on foith and sacrificing the
eggs for the sake of chickens which have eggs for the sake of chickens which have
-as yet-no existence. as yet-no existence.
We believe that dead food can be mysWe believe that dead food can be mys-
teriously transformed into living flesh
and blood, into bones, skin, muscles, and blood, into bones, skin, muscles,
nerves and mind. This seems to be im-
possible, but our taith in it is practically shown at every meal.
Then we believe other is practically
Then we believe other apparent impos-

Mrs. Siddons, as the Muse of Traged
$\qquad$ Who has read the newspupers lately would impossible mission of comerting the
be a fool if he doubted the possibility of world How the Romans must have
wireless telegraphy. Personally, he may ridiculed its pretencions
 have said that it was inplostible, but the
 lectric cars, moving pictures, phonodon't understand, but we believe. We $\qquad$
 Therefore whe the survival of those Resurrection of the Foomder of on the people inspired $\begin{aligned} & \text { pand the example } \\ & \text { and } \\ & \text { igion. Who, as the Roman historian mighty that } \mathrm{He}\end{aligned}$

If the ship had been filled with heathen men and women, the large majority the men would have trampled down the
women and children as they fought thei women and children as they fought th
way to life. It is indeed "' a law human nature" to save the weakest first. but it is a law that was only discovered until the Sun of Righteousness arose to be the Light of the world. Now only a few blinded souls doubt the glory and necessity of sacrifice. Let them explain,
if they can, why it is worth while grandly worth while for great and gifted men to stand aside and give up this life in order to save women and children,
many of whom are ignorant and despertely poor. We Christians know why it s worth while-our Leader has thrown light on that difflculty. The Good Shep-
herd must save His sheep in their hep lessness, though it meant the sacrifice of Himself-the greatest and best of men.
The strongest shall stand the most
The Bishop of London has asked of unelievers some difficult questions. How
is it that Christians lift the Cross (the old gallows) in triumph on the highest steeples in the city and country? Their oved Leader died on it, why should they
not hide it in sorrow and shame?

the most holy rite of the Christian re-
ligion is called the "Eucharist". Kion is called the "Eucharist," or
Thanksgiving, and is always celebrated with joy, although it is the solemn memorial of the awful death of the Founder
of the Church? Uness He mese ow is it that for nearly He rose again, years there has been no trace of sadness in this constantly-repeated Memorial? their holy day from Saturday thanged must have caused the suden change. Unless it was the Resurrection, what was
it ? Have unbelievers explanation to outer of this undoubted
how is it that the men and women who believe most enthusiastically in the living Presence of their Risen Master win
love and respect from the world? There have been great men who did not believe in God, but they are usually admired for or their own have discovered rather than Ask a hundred of the strongest Chris-
tians you know what it is that makes them you know what it is that makes
thapy, and see if they will not
reply. reply: "The love of Christ.", Ask a
hundred open unbelievers-it you can find so many among your acquaintances-
what it is that makes them happy, and they will probably tell you that they are false, then there is a moral impossibility ho accept it wholeheartect that those ways nobler and happier. Not only ald learned philosopher heppe and there, but thousands upon thousands of ordinary
men and women, of all races and conditions, climb out of darkness and misery on Man. When you want to know
more value than the confident assertion
of hundreds who have never tested it all. So, if you wave never tosted it at of Christianity for curing sin and misery,
ask genuine Christians and you will get Very few really dare to tace the diffi-
culties which culties which infidels have to explain,
and therefore there are very few who
openly and therefore there are very few who
openly
oroclaim themselves to be unbeNevers. But, if Christ is our lawful of orily j , is Int His fough to be afraid to
He demands our No and our wedience, our lomandty, our
$\qquad$
$\qquad$

The Ingle Nook.

Hot Weather Clothing.


 truitage and another scene of beauty when
September comes.
No doubt Mrs. Thrifty had all the thin
dresses made long ago, in snow time, so





 this year, and how very easily cleaned, are-
baby waists, surplices, elbow sleeves, flat baby waiders without even the suspicion of
shout Pullness about the top of the sleeve, crim-
ming of flat bandings and insertions,what could be "easier"? And how light Really for out-and-out comfort one could
ask nothing better than a fairly warm ask nothing be-tice gown of linen, charm bray, cotton-crepe, cotton voile, dimity, mull or muslin. It is a mistake to trim any of these
up too much ; the simpler forms have better style. Besides, to much melabora-
tion is surely, so surely, paving the way lor another day not so pleasant, a day of stewing kitchen heat, hot irons, red
face and general out-of-sort-ness.
One
can't have an elaborate wash-dress and escape the penafty therenf. By the way, it any of your wash
dresses from last year have become faded
youn can restore using Maypole soap : or you may run a good chance of making it perfectly white
by using the foliowing bleach : Dissolve 2 tablespoons chloride of lime in one pint hot water; straine then add 1 gallon
water. Soak the goods until the faded pattern or color disappears, then rinse
and boil, rinsing again to remove all trace of the chloride solution. Scientific American, a very valuable
work, gives the following as a bleach for
very delicate fabrics: Wash and boil the goods, then transfer them to a warm bath of 500 parts water and 2 parts per-
manganate of potash. Leave for an hour second cold bath of 500 parts water with 50 parts sulphurous acid. Leave in this
3 to 4 hours. then dry in a warm place.

O Here are a few hints that I have found of use in my own laundering operations,
so as a consistent lriend of the Women's Institute I must "pass them on." Al T.et pongee silk become perfectly dry be
ore ironing. It presses out beautifully To iron the button edge of a waist make a very thick pade of ironing sheet waist wich the buttons on this, buttons down, then press well. It is very easy
to fold the sheet back to make the pad as necesssary. The same maane altho pagh
quite so thick a pad may not be neces sary, will be found excellent for ironing Idd a little borax and a few drops of turpentine to starch, either boiled of The danger of the irons sticking
be much lessened. and the very faint of the turpentine will soon evapo-
If you boil starch for 20 minutes, inc frequently to prevent hurning. irons are much less likely to stick.
othe starch is cooling. stir it from
to time and there will be no thick to time and there will be no thick hg on top.
haven't you some handy hints to
on ? The Ingle Nook is a very on ? The Ingle Nook is a very
medium for spreading such news.
now, and so helping to make the

By the way, Carlotta; who asked
for hints along the line of simpli-
tying housework, will be interested to
hear that a certain Mr. Charles Barnard
 has been so much impressed with the need much to a ask for any woman, especially if a this very thing that he has instituted must, of sewing, for more or less of the
a Ilousekeeping Experiment Station at time.
Iarien, Conn. Darien, Conn., through which some very
valuable $\begin{aligned} & \text { lessons have afready been more of this, perhaps, anon. } \\ & \text { taurgt }\end{aligned}$ Mr. Barnard started from the premise that people do not raake the best of their
work, that WEDDINGS in SIGHT.
Dear Junia,--For a house wedding,
where the bride wears a suit, kindly tell Dear Junia,-For a house wedding,
where the bride wears a suit, kindly tell
me : How the bridesmaid should dress? me: How the bridesmaid should dress?
Should the groom wear gloves? What flowers for bride? Should guests wear
hats? Should bride wear white gloves? hats? Should bride wear white gloves?
And if not asking too much, give me a
four or five course menu. Your or five course menu. M. B.
Oxford Co., Ont. When the bride wears a suit the brides-
maid must also wear a suit, and both mald must also wear a suit, and both
must wear hats. Guests may wear hats
as at an atternoon tea. When a suit is as at an afternoon tea. When a suit is
worn by the bride it would be better to
have the wedding in the church. Pretty have the wedding in the church. Pretty,
fluffy dresses seem more in keeping with a home wedding.
and hatted, all ready for

The Child Samuel.

## 



From a The Child Samuel.
gloves, which he hands to the best
man just before the ceremony. The man just before the ceremony. The
usual wedding outfit for him, for a
day wedding, is a black day wedding, is a black cutaway
coat for morning or black frock coat for afternoon, gray trousers, white cost, light tie and gray groves. A silk hat should invariably appear with a frock coat, a Christie with a cutaway coat.
The bride may wear white gloves or The bride may wear white gloves
very, very light gloves that

The groom provides the flowers. The $\begin{aligned} & \text { The } \\ & \text { bouquet } \\ & \text { should } \\ & \text { consist of one }\end{aligned}$
of should consist of one
kind of flowers - roses, lilies of the valley, white
asters, or sweet peas, tied, with long white
ribbons. A four or five course
luncheon menu is given luncheon menu
on page 1034.
CROCHET WORK. $\begin{gathered}\text { Dear Junia, - Norfolk } \\ \text { Reader asks for pattern }\end{gathered}$ of yoke made of novelty
braid.
I have one made braid. Thave one mo in-
with the braid and in-
sertion. It is all straight sertion. It is all straight
work, made in five piecess;
each piece made by it-
Crochet and Novelty Braid Pattern for Yoke. $\begin{gathered}\text { self, then all are sewed } \\ \text { tokether. } \\ \text { For } 36 \text {-inch }\end{gathered}$ been actually computed that the average bust measure it takes 96 inches of
farmer site wite, in her kitchen alone, walks the braid and half as much of the inser-
distance of 365 miles in the year. tion (see that the braid and insertion are ar distance of 365 miles in the year. tion (see that the braid and insertion are
When to this distance is added trips to the same number). 1 ball of No. 30 cro-
the garden, to the henhouse, to the milk- chet cotton. Now measure off 2 lengthe
 distances traversed can be arrived at. inches /long, that is for the back; make
and the necessity for having everything double crochet around each piece of the
die fouse, braid, then crochet to the insertion For

 Mr. Barnard's experiment aims at se front pieces. I put Irish crochet point
curing tor the honlewte the division of on the top for an edzing. It is well to
fibbon is run in just above the braid at Cop and bottom of the yoke it is cersending a bit of the work. Very many thanks, Blue Bonnet. Your
teply will also do, perhaps, for Mrs. O . L., Bruce Co., Ont., who asked for a met pattern for lad I saw such a yoke the other day. It
was made of very tiny wheels, crocheted a very simple pattern without the
ovelty braid, the wheels being then together to torm the square yoke. I should imagine a good plan would be to make a fitted yoke of cambric, then sew of getting the right shape. The wheels
saw had a mood thent sout had a good deal of thick work putting the hook over the foundation, drawing the thread up, then drawing a itght slip-stitch at intervals to form a ops. If I can secure a pattern from it any natern for tiny wheels about an inch across would do.

TO Reduce flesh.
Dear Junia,- Inow turn to you for
Can you five me some tion as to to hou to readece $m$ my foen ? ${ }^{\text {amp very nemh and would like to remoiv }}$ some of it. Thanking you in advance.
Kent Co., Ont. once knew a woman in Chicago who

## The Dandelions.

Low hidden by the springing grass Sleep the dandelions ! By green cloks' as a Till May-belle gladsome note has pealed. Prudent dandelions !

Then when the Southern breeze has By $\begin{gathered}\text { stirred } \\ \text { welcome tinkle } \\ \text { long deferred }\end{gathered}$ Happy dandelions !
Awake, alert, with smiling fac Each smooths her robe with dainty grace, Each tiny petal turns in place,
greet your advent with delight, first brave scout to last small What joy those walks with you insure You beauties : tipped with gold dust's Gleaming as suns in miniature,

Some call you common-just a weed E'en be it so-'tis true, indeed, But why their scorn? The sun's clear Is common, too, but can they say
Tis not most precious, priceless? Dear dandelions

Does this old world a surplus hold Of beauty, brightness, Joy en
Think, dandelions !
it should frown on any flower Whose mission brings such gracious dow Loved dandelions :

We love to share our sunshine-wealth For dandelions. We bloom for beggar-maid and thee ot which plucks more lavishly,"
Say dandelions.
St

Freckles - Superfluous With hot summer winds and bright sur hine come Preckles. the Hiscott Dermatological Institute, 61 College street, Toronto. This firm also
trats superfuous hair.
moles reats superfluous hair, moles, warts,
pimples, red nose.
Write to them for pimples, red nose.

Epigrams fipom Peter MeApthup.
Every clear statement of truth is a
blasphemy against error. The knowledge of most men is just
enough to make them aggressively ignoenough
rant.
It is sometimes hard to distinguish the men who are independently rich from
those who are independently lacy. As a Canadian citizen, I feel that in treating any man as an equal; be he a
drayman or a duke, I am paying him the drayman or a duke, I am paying him
highest compliment in my power. To treat some men as equals is to
make them feel that they are your supe

A man of cheerful disposition can de-
vise $a$ new set of good prospects whenvise a new set of g
ever he needs them.
Much of the thrift we see practised ; simply a combination of meanness and
dishonesty. No man gets more good out of life than the man who has the courage
tail as well as the ability to succeed. We should strive to grow but not to pecome pertect.
Perfection is the goal to be aimed at,
but growth is the reward. Pertection is but growth is the reward. Perfection is
the grist step of decay.
Argument is absurd.
Argunent is absurd.
peoct another man should I I expect another
for mine.

When th' Fever's in th' Blood.
Lemme tell you this-when th' world gits
An' a green,
feller gits ornery, restless, an
Thar ain't no doctor in eny place Es kin, properly diagnose his case.
The on'y cure ter a man I know

 Th' on'y thing thet'Il cure him then An' loat all day by some laffin', stream, In', fish an', whistle an' sing an, dream, An' listen $t^{\text {t }}$ birds an' bugs, an' hear
Th' voice $0^{\prime}$ th' woods in his eaner ear, Th'
An' sauirels,
An' cast a fly where th' eddy whirls,
$\mathrm{An}^{n}$. fergit that therr's citios an' house Fergit thet he's got ter go back agen; Fergit thet hen's got ter go back agen;
Fergit. when on moss-grown bank hes Thet tharr's, enythin' else in th' whole But jes' hime 'horld an' th' birds, an' th' bugs


The Return
 his headows where we met, of mine must break to-dins Breathe not so swret, breathe not so sweel. But swiftly let me pass
teross the fields that felt

1 year ago, but one briet y We wappered hewering land, and whispered ther , Crisij white clouds beyond the nill. W. lavrock in the skies,
$\qquad$ Red heather
Wild thyme

THE FARMER'S ADVOCATE


I'll sigg, you a song of the whitem Co., On And a song of the scrubbing-pail Won't be sentimental gush, But a song of the women who have Mid whitewash, and soapsuds, and dirt A song of the time when the house is cleaned And a mate for the song of the sh Till their backs and their bones all ache. Ind they feel so tired that they scarce can sleep.
But lie half the night awake.
$\qquad$
And the mornings are balmy and bright,
It is then that the house -cleaning fever begins,
It is then that the house-cleaning fever begins. And rages for days at its height ; As room ater sorts, an stabla Till never a speck of dirt remains, And things look as if they were new Oh, they rub, rub, and scrub, scrub,
Till their backs and their bones all Till their backs and their bones all ache,
And they feel so tired that they cannot sleep.

The housewife rises at enrly daw And plans out the mode of atana,
And while some of the things are She moves all the stoves and wrestles with pipes And sighs for the good old -fashioned times When the fres were buitt in grates. And she rubs, rubs, and scrubs, scrubs.
Till her back and her hones all ache And she teels so tired she scarce can sleen But lies half the night awake
$\qquad$ For, really, she teels that she must,
And marshals her weapons in gallant array, To make war on the dirt and the dust. Wall paper and paint, and alabastine, And all such things as these, And plenty of ellow- grease. And she rubs, rubs, and scrubs, scrubs, Tho' her back and her bones all ache,
And she feels so tired that she cannot slee And she feels so tired that she can
But lies half the night awake.

## Sut the men folk grumble, and growl, and grow When the house is dismantlod

$\qquad$
$\qquad$


They've ot worr so hard that they
While of dust they get their flil
Tho' their backs and their bones all ache,
Tnde they feel so tired that thes cunnot simpl,
not
h, the woinen who work get little thanks.
And oft - tinues litte pay,
And otten they are not liked so well
For the worm who play get often prai
When the wonen who work get none,
but they have their reward in a nice, clean houn-... nod the knowledge of work well done
oo they rub, rub, and scrub, scrub Thoo their back and their bones oull ache.
nd they teel so tired that they sarce con con

## How to Act.

## Requested.

As the boy grows older he should be taught that it is the part of the gentle-
man to move the chair back for the lady whom he is to take in to dinner, pro He should also be taught that he should first affer any dish which he may should pected to pass, to the lady, or old person beside whom he may chanc old person beside whom he may chance ter applies also to girls; indeed all children and young folk should have it impressed upon them that, as embryo ladies and gentlemen, they must constantly defer to and give precedence to the old
no matter what the occasion may be.

Now to few points which pertain more particularly to entertaining.
As a rule, very formal dinners and 1uncheons are seldom given in the coun-
try, hence there is no try, hence vere to give all the details of such func tions. A few outstanding points, enough to cover nicely all semi-ceremonious occa-
sions, may suffice. sions, may suttice. dinner, it is scarcel
When giving a dis
necessary to suggest, it is wise to hav necessary to suggest, it is wise to hav
all arrangements carefully perfected in good time, to leave no possible chance Tor confusion after the guests arrive. without fluster or pre-occupation, knowing that everything is all right. provided with a silence cloth of be first provided with a silence cloth of felt
heavy Canton flannel. Over this the carefully-ironed cloth is spread. In th center of the table is then placed the
center doiley, with a low arrancement of center doiley, with a low arrangement
flowers upon it,-at least low enough so that the guests can see one another across it. At each place the knives and
forks are laid, the forks to the left, with the points of the prongs up the knive to the right, also the soup-spoon, bow up. Two forks and two knives (a large steel-bladed one, and a dessert knife) ar
sufficient, unless there are courses. Near the points of the knives the water
glass is placed, and between the knives glass is placed, and between the kin and place-card, if place cards are used, this plate being used to receive the soup-plate.
The napkin should be folded square, to show the initial or monogram (fancy
foldings are not considered in good taste), and within it should be placed a cube of bread, or a roll.
Individual salt and pepper holders may Individual salt, and pepper holders may
the used, but larger sets for general use
aree more in favor, a pair somewhere are more in favor, a pair somewhere
near each corner of the table. If open salt dishes are used, salt-spoons must be
provided
per Cpon the table may also appear, from
the beginning, little dishes of olives, or simall pickles drained dry, celery, and
salted nuts, catsups, etc. Finally, if the dinner is at night, four Calldes or two small lamps may be
Wlaced, a candle towards each corner
The shades of candles or lamps shout centerpiice-pink, if roses are used, yel-
low with daffodils, yellow or pale green
 shades miy the made of tissue paper, the
expense is l,ut otrifling, even though chanked for each dinner party.
The method of serving need not be
fiven heren ils it appeared recently in Fiven here, as it appeared recently, in
intail, in these vayces; but we may repeat
ince mere the orler of the courses for a ormal dinner. Soup or ovsters should解 reketmle then a salad with, perhaps abicion in truit and bonbons, W.... the fish course, the hostess re-
ancte that the olives and salted nuts be Thar cuch course, the plates and dishes


AY

Job a social occasion, therefore converse
ton and
to nd eating ton and anting should go on together
with conversion taking the lead. Guests invited to a diner should bo Guests invitee
axactult of
of time


 mon ned not arise to reave him (ii the
latecomer is an andy, sha must), but the host arises and takes es him to his place. The hostess, oft course, receives $h$ ger is announced, the host teas the way no the dining rom with the lady of
honor of the occasion, it there is $a$ asper cal guest if not with tho eldest lady
resent or or with one who is at the nous for the fist time. It the occasion is quite formal, here are equal numbers of ladies and gentemen, and the gentemenn
nave teen apprised by cards sipped in
 dressing rom, ot the names ot the lades
whom they are expected to take in to Grime they are expected ton take in to

 It there is an un oven number, savvy firth Hater in and and sen even gent been, the
 which case
 then, immediately each gentleman draws down. When the dimer is over, the hostess gives the signal to leave by arising The The
gentlemen of course, remain
隹
 to leave the room frit


 up the muss which, it serious, is quickly covered by a napkin.
At at formal diner,
oren
At a formal dinner. relatives, or hus
band and wife, are never senate sided os


 One can at least play with it in pretence
ot eating, while really eating some relish


 filled with warm water, and should have
a rose-geranium leaf or two or three violets floating on top. One merely
moistens the tips of one's fingers very quickly in the water, and dries them on
the napkin. One occasionally hears of
ludricions. mistakes made in 0
 It one is is present for a single meal), one

 some contusion sometimes arises ans t.

 When eating meat and potato toes, hold the Knt with the right hand, the torn wo tut ing the meat in bits and eating with the oik in the right hand seems to ob
Lain, but the other way is more general in Canada. on the edge of the plate, and unotru-
avery conveyed to the food. To tap a lively conveyed to the food. To tap a
nile with a fork in distributing it, flourish a salt
ally in bad form.


## OUR SENIOR BEAVERS.

The Little Blue Boys.
op in Cotton Factory Hollow
I once heard a great commotion;
And I kept me very still, Softly breathing, scarcely stirring Until, to my great surprise,
noisy band of fairy -folks appeared before my eyes
p and down the wall they clambered
Peeking in each tiny nook, Playing hide-go-seek" I thought
Then, I took a sharper look,
nd discovered they were finding And discovered they were finding
Tiny letters in the wall. In a circle soon they gathered,
While one read aloud to all.

Many wishes which the birds brought
From the children of the town. Some were good but some were sells
And such made the fairies frown. Cried one pixy in dismay.
Then, contemptuously added, Then, contemptuously add,
"List to this, dear friends, I pray I
IV. " I wish I could shoot a robin",
"What a cruel boy is he !"" All the fairies cried in chorus. "Now, my friends, don't you think we
Ought to teach that boy a lesson?
"Teach him maimed birds suffer pain " Teach him maimed birds suffer pain

$\qquad$
OR SENIOR BEAVERS.



答


I'll become a little bluebird: But, when in his bag he puts me
"Softly then to you I'll call. ."With the magic blue vervain. "Thus through suffering well teach him
"To ne'er cause birds needless pain." "A good plan!" cried all the fairies,
And, quick as a cat can wink its eye
Two score pixies changed to blue birds Two score pixies chang the sky,
And soared high up in
They flew swiftly o'er the city; They flew swiftly over the city;
But, soon back again they came,
Bringing their small prisoner with them Bringing their small prisoner with them
And I heard them speak his name.

Cried the frightened little fellow,
But, But, the pixies laughed and danced Much more kindly at him glanced, "My heart aches for him," she murmured "For, 'tr aus Sandy brought the air-gun,
"When last Christmas time he came."

Said the queen of Old Dorp fairies While she by the bird knelt down.
With her wand she lightly touched him With her wand she lightly touched him
Then, above him held her crown. And though hardly true you'll think it A boy sprang up with a gun.
Hat in hand, he bowed politely, Hat in hand, he bowed politely,
Thanking her for what shed don

At her feet he placed his air-gun And, I heard him softly say,
"So, please throw this gun away,"
Greatly pleased, then, were the fairies,
And around him danced with glee ill one said, "Come; we must go now
XII. While the fairies skipped away. Boy'";
For, they
changed his suit that day And pledged ne'er to kill bird. Now they're called "the Band of Mercy Little Blue Boys," so I've heard.

## xiII.

If some day you'd like to join them,
And become a Blue Boy too, Matching well the blue-bird's hue And a note write to the fairies
Who live near the old Who live near the old mill wall;
Tell them you have joined the boys' club Toll them you have joined the boys' club
To protect the birds; that's all.
Corinne Eloise Camp ell, in "our Dumb Corinne Eloise Campbell,
Animals."

## Ontario Childe

 ested.From the same issue of "Our Dumb
Animals" in which appeared the poem, "Little Blue Boys," has been taken the following item -
Miss E. Case, a public school teacher in Thessalon, Ontario, writes to tell us horses in that small lumbering town and in the same letter sends the signatures of thirty-nine children to our Band
Mercy pledge. We wish every school teacher in Canada would follow Miss Case's fine example and get all the chill-
dree interested in being actively kind to We hope the Band of Mercy is still acLive in Thessalian (the item was pub-
listed some time ago), also that the
movement has been spreading to other movement has been spreading to other
schools. Wouldn't it be fine it there
were a Band of Mercy in every school in were a Band of Mercy much y school in
Canada? How very much happier the birds and animals would be if all boys
and girls were kind to them and tried A Competition.
Find three wild flowers or weeds
which, after all, are wild flowers also, aren't they?), draw a picture of them, Conn write a little essay telling where you prizes which we will give for the the prizes which we will give for the best
drawings and essays this time will all be drawings and essays
nature - study
books. They are fine. Won't you try hard to win one? All
compositions, etc., must be received at this office not later than June 15 th. Bis of ice not later than June isth.
Be sure to address to "The Beaver
Circle," "The Farmer's Advocate," LonSenior Beavers' Letter Box.

Dear Puck and Beavers, -1 enjoyed reading your letters so much that I was
tempted to write one myself. My father tempted to write one myself. My father
has taken "The Farmer's Advocate" for five years, and he claims that it is the
best magazine; he enjoys reading it every
week. I live on a big farm in the town-


##     




 as Arkell village is only two miles east
of us, so that is where 1 go to school.
We have a gentleman teacher; his name We have a gentleman teacher; his name
is Mr. R. Boal. We have a library at is Mr. R. Boal. We have a library at
our school which contains about six hun-
dred books. I will close, hoping this will escape the w.-p. b.
EARL CARTER (age 12, Jr. IV.).
$\qquad$









$\qquad$
$\qquad$
$\qquad$
$\qquad$


Dear Puck and Beavers,--This is my first
letter to the Circle. I Ilive about three letter to the Circle. I live about
miles from the city of St. Thomas.
have about two miles to walk shaveol. I like to go to school very
smuch. I would like to tell you about a
mird I found last summer. It was a
birter bird I found last summer. It was
little brown bird with lighter brown on
its wings. The bird built its nest about six inches down in the ground. Its eggs
were small, white balls, with browr were small, white balls, with brown
specks on them. I came back two weeks specks on them. I came back two weeks
after and found little birds there.
wish someone could tell wish someone could tell me what kind
of a bird it might be. of a bird it might be.
MAY MCCREDIE (age St. Thomas, Ont.
Probably the bird was one of the spar
Cows, but it is impossible to rows, but it is impossible to tell with
a much more accurate description. You are Number 9 on the Gardening (hition

Dear Puck and Beavers, - - live with my
brother-in-law at Mayfield, ind brother-in-law at Maynield, and as he has
taken "'The Farmer's Adveate" taken "The Farmer's Advocate" for quite
a while, I have grown very interested in a while, I have grown very interested in
your Circle. I have three-quarters of a
mile to go to school. We live on the third line, east, on lot live in the
County. We have fourteen cows County. Wie have fourteen cows and
thirteen calves, seven horses and two
colts corts. There are two hundred acres in
the whole farm, forty of which are in
fall wheat. I expect to go out West fall wheat. I expect to go out West to
Saskatoon next summer to live with my
mother. I will miss "'The Farmer's Admother. I will miss "The Farmer's Ad-
vocate" for the Beaver Circle. When I
get and hunt the eggs and a few other
chores. We get about thirteen eggs a day, and make about sixty pounds of butter a week. I must close, wishing
your Circle every
$\substack{\text { success. } \\ \text { EDWARD }}$
EDAR (Age EDWARD EARLY 11 years, Jr. IV.)
Nayfield, Ont. Dear Puck and Beavers, -This is only
my second letter to your Circle, Beavers. about a mile to walk. I have not missed a day this term. Our teacher's
name is Miss Clarke; her father and mine are first cousins.
I learned to swim and ride the hicycle ast summer. It is great fun. Ficmele
My father has taken 'TThe Farmer's Advocate" for a great many years, and Our school has been closed for three
months on account of smallpox. 1 did not have it, but my seat-mate had. It
was very light. Hoping this will escape Mr josempinie cliark


Dear Puck and Beavers,-1 was twelve m in the Senior Third Class in school, but 1 never went in the winter yet, as
have two miles and three-quarters to go. We have the telephone in our house, I have started to gather a library. ${ }^{\text {I }}$
have alnout eipht bools now.
I read the have that was sent to me for sending
the picture of my dog, and enjoyed it ry much.
My father and mother are both dead,
ad I live on the farm with my uncle. My father and mother are both dead,
ad I live on the farm with my uncle,
oo has taken "The Farmer's Advecate" has taken "The Farmer's Advocate"
over twenty years. I like reading
$\qquad$
$\qquad$

[^0]which goto pieces, or

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| :--- |
| break are not worth |

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they may be. Buy guaranteed gates-

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 sk your grocer for a 5 c. package containing 6 cakes,send for sample. White Swan Spices \& Cereals, Ltd. Money Matters "If Father Had Only Made a Will We Could Hav Avoided All this Trouble.
$\qquad$ family there had been disagreements and small estate.
There were only a few things to divide - just a small farm and a few cattle, but
the family could not agree. The little place had to be sold quickly for less than it was worth, and the family is hopelessly divided.
All such trouble could have been avoided at an expense of 35 cents for a BAX Will Form. It is a duty that every man owes to his family, whether he has thou sands or hundreds to leave, to make
positive indisputable will. Attend to this important matter at once. BAX Legal Will Forms are copyrighted
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men will properly filled out and full inmen wions for your guidance.
struction
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DON'T TAKE OUR WORD FOR THIS STATEMENT. Ask anyone who is using this tankage. - No matter who he is nor what quant he is iusing, whether carloads or single bags, he will agree with us in this statement, because he knows from ACTUAL EXPERIENCE, THE PRICE OF HOGS IS HIGH, BUT THE PRICE OF ORDINARY HOGBREEDS IS JUSI AS HIGH, and when you figure out the actual cost of raising that last bunch you will find that there is very little profit left. The hogs have eaten up your profit. Don't blame them, they have to eat, the whole blame is on the feed. Figure up the cost of your food in actual FOOD VALUE-PROTEIN, the base on which it should be valued:-
CORN COSTS YOU I8 CENTS PER POUND OF PROTEIN, WHEAT COS
GRAINS AND HOG FOODS COST YOU CORRESPONDINGLY HIGH PRICES.
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HARAB DIGESE THE FIGURES, THEN WRITE US FOR SAMPLE AND MORE INFORMATION ABOUT THIS GREAT MONEY SAVER.

HARAB DIGESTIVE TANKAGE HARRIS ABATTOIR CO., TORONTO, ONT.

$\square$ But infull of her pouerts, hunger any But rout, as she gazed throust tho mus
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despair,
he read
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 Hungarlan, 4c. per lb. millet, 4 flc . per lib. Japanese Millet. 7 c . per Ib.

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 Order alons with your seeds

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Keith's Prizedtaker. Scottish Champion.
New Century Canadian Gem. Elephant or
Jumbo.. Kannaro. Elephant or
Price tor any of the above Swedes, 25 c. per
$\qquad$


The Rink Hog. (A new species of fauna occas.
found in skating rinks.)
$\qquad$
nd I cleave my impetuous way
Through the crowd on the rink
Who stagger and shrink
And make for the rail in dismay.
But if in their furry they fall
The weakest
Of course they'll get hurt,
If they're not more expert-
That isn't my business at all.
I am a rink hog-hurroo
I'm a swank on my my skates,
And my dash culminates
In a grape-vine, an 8, or a $Q$.
I can twist and revolve like a to
With a lateral scrape I can stop
Through the litter I I glide,
And leave em all over the shop.
I am a rink hog-what oh !
There's panic wherever I go
I dart round the floor
To the tune of the roar,
And for manners I don't care a blow.
Let cavalliers frown as they may,
Of the rules of the rink I make hay,
And for manners I don't care a blow.
Let cavalliers frown as they may,
Of the rules of the rink I I make hay,
And couples in tront
And couples in front
Had best do a shunt,
or I am a rink hog-hooray
$-J$. Pope, in Canadian Century.
different complexion.
A stranger in Boston was once inter-
ested to discover, when dining with
Iriends, that the dessert he would have
classed as cream
ested to discover, when dining with
friends, that the dessert he would have
classed as cream layer cake at home was
known in Boston as Washington pie. The

square of cake covered with chocoliate.
squzzled expression came over his face
ss he said reprovingly: "I ordered Wash-
"That is Washington pie, sir."
" Well." exposiltated the disappointed
van, II did not mean Booker T


onstant companion, we may spare
Winage to carry the first had the mamp ever seen
Whe streets of T.ondon.
at ofets of London. gamp ever se we was th
very impolite attentions fro
calmen of the period.
the coming in of period, who feare
shelter would ruin the port
sheir busines
was Iler. Wolould ron whin their busp por thess
waid of Hanwa
Wonns acquired some who said of Hasines

News of the Week.
The Chinese Premier has resigned.
Forest fires have been raging in the

The body of Frederick VIII... King o May 24th.

The Farmers' Binder Twine Company plant at Brantford, Ont., was struck by
lightning and burned on May 20th Great damage was caused by wind an flood during a fierce electrical storm that
visited Collingwood, Ont.. on May 24th. The Monteith Experimental Farm Northern Ontario, has been given over
to the charge of the Ontario Agricultural to the
College

Canada and Australia were awarde Oold medals for collections of fruit a
he International Show. London, Eng.
which was held last weel The Canadian Association for the Pre tion in Toronto last week. The neces to preventive measures was emphasized particularly the necessity of fighting fly
ing dust and dirt, prolific agencies in s,read of the disease

## Dr. Sain J. Meltzer. of the Rockefelle Institute for Medical Research, New York recently restored to life two animal which had been put to death, and which were dead had not his method of respira

 tion been applied immediately. He saysHow Much Fresh Air Fresh air, and especially fresh air cessant warning and preaching at las become the goal of all thinking people. Hygiene is so powerful a goddess to
day that even custom and fashion must how down to her, in theory if not practice. There is danger here, for whe virtues they do not possess, or to mi take decent theories for proper practice, they cease to advance in wisdom or
health. Some people take to the fresh air only
as a timid bather takes to the water.
They have heard that it is tood for them and they think that they think it is; but
in reality they detest it and regard it In a cross-examination of any dozen

FOR THE JUNE BRIDE---


Louis XV.-Style 8o

THIS CHARMING GIFT---

A Sherlock-Manning 20th Century Piano "Canada's Blggest Piano Value" June is here-beantiful, balmy June-the month of Brides and Roses. So let this remind you of that Bridal Gift you have to select
The Bride is keenly alive to everything that is beautiful about her new home, and what gift so sultable or so ruly satisfying as a first-class piano? It combines beauty and sentiment with utility, and just what the Bride
herself would be likely to choose. Make it a SHERLOCK-MAN VING 20th Century Plano! Its beautiful apearance will not vanish. Its rich, resonant, singing tone will endure. For the SHERLOCK-MANNING 20th You'd best select that Bridal Gift Piano NOW and save $\$ 100.00$
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 $\mathbf{W}_{\text {ried }}^{\text {ANTED-Herdmman for }} \underset{\text { man }}{\text { preferred. }} \stackrel{\text { Shorthorns. }}{\text { War }}$

Jersey Bull Wanted


1034
THE INGLE NOOK. was under treatment for the reduction of
superfluous flesh. She was required to walk seven miles a day, and was put on starchy foods. It would, perhaps, be necessary to consult, a physician in regar one could not, if one's heart were weak walking. too, to determine just would be needed, venture upon with safety. The right diet for one person might be very wrong fo

## MORE QUERIES

"Blue Eyes," Elgin Co., Ont., asks 10 an description of a wedding dinner to "would it be all right to have young men waiters? In what order should the
courses be served, as I intend to have tufkey ?
An August wedding dinner should be
very easily managed very easily managed, as there will be
such an abundance of flowers, truits vegetables to choose from at that time year
light bigk fuffy asters, white and very light pink, will be out then, and you can like. Sweet peas would also be dainty if you can procure masses of them dainty,
courses might


You may vary this in many ways, pro-
viding you keep to the main courses, soup, fish, meat, salad, sweets. Many, indeed, omit the fish course altogether.
You may serve a hot vegetable and You may serve a hot vegetable and cran-
berry jelly with the turkey if you chooso and omit the chicken salad.
It would be very nice to It would be very nice to have young
men for waiters, if more convenient.
hair dressing-apple sauce Dear Junia, -Would you kindly answer
few questions? How long should a few questions? How long should a
girl 18 years old have her dresses, and
how should she do up her hair ? how should she do up
only to her waist line Here is a recipe for an apple sauce ake: Beat to a cream 1 cup of sugar
and is cup of butter. Add salt to taste

THE FARMER'S ADVOCATE.

## Why Wood Silos are the Best

> Many Government experiment stations, especially in the United States, have made exhaustive experiments as to the most suitable material for silo construc fion, and the general conclusion seems to be expressed in the following statement from a recent experiment station taking :ll the round, wooden stave silo proved most satisfactory
> The reason for this is simple
> The very best silage is obtained when the whole mass is kept at an even tem perature and all air excluded. Cement, heat generated in the silact and the prevent proper fermentation; furthermore


$$
\begin{aligned}
& \text { prevent proper fermentation; furthermore, } \\
& \text { both cement and brick are porous, and } p
\end{aligned}
$$

the silage, thereby causing it to spoil.

The many experiments and tests made have that frequently as much as one-third of the silage in a cement or brick silo will be spoiled and unfit for use, while in properly constructed wood silos the only spoilage will be a little on the top.
Due to our colder Canadian climate wood is the only material suitable for silo construction. If you have any doubts on information write to us, and we will be glad to give you further your interest to erect an Ideal Green Feed Silo in preference to any other kind, not only from the standpoint of first cost, but also from the standpoint of more satisfactory service.
We are the oldest and best known silo manufacturers in Canada. Thousands of our Ideal Green Feed Silos are in use on many of the most prosperous farms, and they always give entire satisfaction

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Silo Material, and will be pleased to give you prices on
shipments delivered at your Be sure to writ

THE M. BRENNL $\vee$ \& SONS MFG. CO., LTD., HAMILTON, CANADA
teasspoon soda in cup of cold wa
Beat well, and pour Beat well, and pour over of cold water
ter; add $1 \frac{1}{4}$ cups of flour. Bate hut tes. Part the hair directly in the middle or
suffs over the ears, and arrange into
thre coils low on the thead at the back.

A girl of eighteen yea
skirts ankle lengths.
STARCHING COLORED GOODS-MI
Dear Junia,--I get many useful hints
and recipes from your valuable paper, so
thought I would take the papert, of
writing to you for a little information
writing to you for a little information
myself. I have a black swiss muslin
myself. I have a black swiss muslin
dress with white spots; could you tell
me how to stiffen it ? think the ordi
me how to stififen it? I think the ordi-
nary starch would make it look patchy.
Thanking you in return, I will send two
good recipes
ant Potatoes:-Peel and slice $\frac{1}{2}$ dozen
more potatoes, then place a layer of
them in a granite dish and sprinkle with
salt, pepper and some dried mint. Place
another layer and sprinkle the same, and
another layer and sprinkle the same, and
so on, until dish is nearly full, then pore
in enough milk to cover them and bake
a nice supper dish.
Cream Soda, Summer Drink:-2 pound
sugar, 1 quart or little more
spoon vanilla, 5 c . packet of tartaric acid.
Pour water over the sugar, add white
of eggs, vanilla and tartaric acid.
all together for a few minutes, then bea
the ready for use. When required put
pinch of baking soda before frlling
padd
Carleton Co., Ont.
Ordinary starch would not do at all
for your black swiss dress. There is a
starch made especially for colored goods.
If you cannot get it in your local store
you could probably get it in Ottaw
The following method has also been found
useful for stiffening black and other darl
cold water and pour over it a quart of
boiling water.
tion. Dip the garment in this, propo
let
dry in the shade, then sprinkle slight
and iron on the wrong spide. Two ounces
of the gum are sufficient for a wint
Common starch, or skim milk, may be
used for navy blue goods (if not to
dark in color) if made very blue by adt
ing ordinary lat
no vame given.
only were signed, no name being given
anywhere on the panor
anywhere on the paper, have airrived for
this department. Please remomber tor
letters must be accompanied by full ad
dress, otherwise they are likely to
into the waste-paper baskat
What were you made for, you little tly 0
You are a nuisance that nono
year,
you appear.
The woather comes then
like can't bear you, they hate you
lin,
ey say "There's a fly coming! Don't
let him in."
tell you the reason, they do not like
When you enter the kitchen to thell
you fy,
The uncovered sucar howl to the table
you don't care who sees you, into it roll
act as it for you the tahle was set,
you help yourself; no, you never for-
zerms that you carry invisin for


may 30, 1912
The Scarlet Pimpernel.
Ai. Baroness oray
(Serial rights seacured by, "The varreers
By perrissision of C. r. r. Puttrum's Soms
("vominued trom last womb)



 "now Inawe that she meytied lightly

 $\overbrace{\mathrm{H}}^{\mathrm{ar}}$
is the choicest tea-green, black or mixed-from the finest tesgrowing country in the world-Ceylon, with its exquisite flavor and freshness protected by the sealed lead packages.

Best Tea At Its Best
"SALADA" TEA is always the same, no matter when or where you buy it.

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HE growing demand from wide-awake farmers for Protein, has led this company to put another Dairy Feed on the market. We have had a careful analysis made of this of the leading dairies in and around Toronto with splendid

The guaranteed analysis
as follows
Protein. . 15 per cent.
Fibre.
Compare this with Prof. Day's report on the feed value of coarse grains :

Corn...7. I per cent.
Oats ...9. I
Barley. .9.5
Wheat..9. 2
In Malted Corn Feed you get, therefore, Ioo per cent. more Protein than in corn; 8 o per cent. more than in either oats, barley or wheat. Do you see the point? Sevral dairymen who have tried he flow of milk of from 5 to 8 per cent. Would any one want any better proof of the eeding value of Malted Corn than whole pages of theory
Ask your dealer for a san ple lot of this feed. If he can

The Farmer's Feed Co, TORONTO $\qquad$
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PRO - FAT
"MALTED CORN FEED"
MILK FLOW INCREASE

8.

antomobile manufacturers.
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ashool, bot Beaver St, New Youk tin


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nutes.
nlways ready
Al
 Oo use, easy to
oaniopulate
vars aldenendable ways dependable
and clips clean-
ly
cvenly and and cipes clean-
ly, cvenly and
as silose as you
wish. If you have
one horse cor
owenty thisclip.

 and no repair
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racip for use
cilipping
and states
and shatthook for holding clip-
ping-head
pitied. Ask your pited Asky your
pied
nearast
or write dielert, B. $\mathcal{L}$ S. S.
HOMPSON
HOMP thompson
COMPANY
Ltd. Montreal

## MSSURE HORSES



Your Stallion is Worth Insuring Against Death

$$
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& \text { For an equal premwum we grant a more libera } \\
& \text { Policy than any oter Company } \\
& \text { We tita }
\end{aligned}
$$

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mats. Horse shipments insured for $5.10,15,20$
or 30 d dys at very low premiums
Prospectus Free on Demand General Animals Insurance Co. of Canada 106 Yotraw stanch: 0 Ottawa
J.[A. Caesarar. Room No. 2. Janes Building,




 would, make a finall attempt, however dee
perate, to rescue those " Faith, Sir Andrew," said Marguerite
at last, "making brave efforts to dry h
tears, "you are right cears, you are right, and I would not
now shame myself by trying to dissuade
him from doing his duty I should plead in vain. God grant him
strength and ability," she added fervent. strength and ability,", she added tervent-
ly and resolutely," to outwit his pur-
ly and suers. He will not refuse to take you
with him, perhaps, when he starts on his noble work; between you, you will have
cunning as well as valour ! God should in the meanwhile I think we
 "auvelin is on his track,"
"Undoubtedly. He has wonderful sources at his command. As soon as he
is aware of his danger he will exercise more caution : his ingenuity is a veritable ""Then, what say you to a voyage of wait here against his coming l-You
millage whilst
might come across 6ave valuable time. If you find him
aime ell him to beware !-his bitterest enemy " But this is such a villainous hole for
" Nay, that I do not mind !-But you
might ask our surly host if he could let me wait in another room, where I could
be salfer from the prying eyes chance traveller. Ofrer him some ready me word the moment the tall Englishme She spoke quite calmly, even cheerfully ow, thinking out her plans, ready for
the worst if need be nore weakness, she would prove herse
worthy of him. who was about to give his life Por the sake of his qellow-men.
Sir Andrew obeyed her without omment. Instinctively he felt that hers
now was the stronger mind; he was will ing to give himself over to her guidance,
to become the hand, whilst she was the directing head.
He went to the door of the inner room Chrough which Rrogard and his wife had he was answered by a salvo dif muttered "Hey ! friend Brogard !" said the young man peremptorily, "my lady would
wish to rest here awhile. Could you
give her the uso of nother nom ? She ive her the uso of another room? Sh
vould wish to be alone." He took some money out of his pocket,
and allowed it to jingle signifioantly in
his hand Bregrd had and listened, with his usual surly apathy,
to the young man's request. At sight the gold, however, his lazy attitude re laxed slightly; he took his pipe from his mouth and shuffled into the room.
He then pointed over his shoulder at the attic up in the wall.
" She can wait up there !", he said with
a grunt. "It's comfortable, no other room." comfortable, and I have "Nothing could be better," said Mar-
guerite in English ; she at once realized
the advantages such a position hidden Irom view would give her. shall Give him
the monev, Sir Andrew; I shall be quite happy up there, and can see everything
with without being seen."
She nodded to
to scended to go up to the attic, and to
shake up the straw that lay on the floor.
w "May I entreat you, madam, to do
nothing rash," said Sir Andrew, as Marguerite prepared in ior turn "o ascend
the rickety flight of steps. "Remember this place is infested with spies. Do not,
T beg of yous. reveal yourself to Sir
t. Percy, unless you are absolutely certain
that you are alone with him." Eary was this caution: Marguerite was as
salm as
calm calm, as clear-headed as any man. There
was no fear of her doing anything that "Nay," she said, with a slight attempt
at cheerfulness, ". that can I Raithfully
promise you. I would not pionpratise at cheerfulness, ${ }^{\text {I }}$ that can I Raithfully
monld not joopardise my
nomise you.

## FARMERS! <br> his is the season when you need a specia

Feed for Young Calves and Pigs
Our Caledonian Calf and Pig Food is unusual value for this purpose. ANUCK DAIRY FEED is a strong, well balanced ration for milch cows. ALBERTA FEED is specially valuable as a Hog and Cattle Feed.

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 ORMSBY GRANGE STOCK FARM, Ormstown, P. Que. A large importation of specially-selected d.year-old stallions, fillies and D. Mceà́Chiran, PROPRIETOR CLYDESDALES (Imported) CLYDESDALES

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Now offering 8 imp. Clydesdale fillies. rising 3 years; 1 imp. Clydedale stallion 12 yeare,
good one, and several stallions 2 and 3 years ; one Shire stallion, sure foalt pouter ; two blact Bercheron stallions, 6 and 8 years, and one Thoroughbred stallition. Aull will be told at bat IMPORTED CLYDESDALES
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 John A. Boag \& Son, Bay View Farm, Queensville, Ont.

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 HARRY SMITH; Hay P.O., Ont. Exeter Sta. L.-D. 'Phone, MP. CLYDESDALE STALLIONS AND FILLILS eding idea draft cheracters ; mas much quality as can be got with nize, and I omy doino

BIG QUALITY GEO. GTEWART, Howlek. We have them on hand imported this year, Stallions and Fillies, many of them winners
the best blood of the breed, with size, character and quality. There are none better and the best blood of the bre
no firm can sell cheaper.
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ew yougs sallions felt, two and three years old; all big size and quality. Prices away
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## 

 SMITH \& RICHARDSON, Columbus P.O., Ont.$\qquad$
10 SHORTHORN BULLS 10



[^1]

QUESTIONS AND ANSWERS Miscellaneous

MIANGERS FOR HORSES In putting in horses' mangers, whic
would you prefer, a slatted manger ope
ing so would you prefer, a slatted manger ope
ing so as to clean out in stall, or
clean out in hall in front of horses, clean out in hall in front of horses, of
a tight-bottom manker? I would like t
hear of any diforents. hear of any different way
A coxstint READER. Ans,-As the material left by the horse
in the manger, provided judicious feeding
is practiced is usuled as feed, and is valuable only as litter
the logical place t. pen seems to be in the stall reather th
in the feed alley. Some have bottomed mangers with a small door
or near the bottom by which to clean
out. out. Others use slatted mangers win
good results. It depends lareely up
which suits your individual conditio
best
 manger is handy, permits, of the hor
geting the feed readily, and proper
constructed, prevents waste. Some
$\qquad$


$$
\begin{aligned}
& \text { earson \& Son, West Flamboro, } \\
& \text { Addrea } 103 \text { Yorkstitite Sto } \\
& \text { HAMILTON, ONT }
\end{aligned}
$$

For Salepulleys, shatting, hangers, roofing, vices, chains,
etc. Enormous tock; 25 to 75 per cent. less than
teg.IMPERIAL WASTE \& METAL CO ${ }^{\prime}$ Y
Aberdeen-Angus ${ }_{\text {also }}^{-A}$ few bulls tomales. Come yet
Walter Hall, Washington, Ont.
Balmedie Aberdeen-Angus $\underset{\substack{\text { Iam of } \\ \text { fering }}}{\text { in }}$


Greenock Shorthorns:

m..Yy 30, 1912

QUESTIONS AND ANSWERS. Veterinary. GoITRE.
$\qquad$ Ans. - Rub well
ment made of t.
and iodide of po
ouncos evaseline.
onnlargements o of enlargements of the glands
appear without treatments
fatality in foal. 1. Is there
as
"fish knees 2. We hate a toal win inals kno
 Ans. 1. No. No.
2. The tumps on the knees did num
anuse death. In cases of joint ill
and
 ned from some otherch cause, Your foobal
come disease of the hikestive, sstotemb PARALYSIS.

0

THE FARMER'S ADVOCATE.

## Facts About McClary's "Sunshine" Furnace

---The Understudy of the Sun--

it and the ashes drop into the ash-pan. " child can easily rock the grates of a why you should buy a "Sunshine" Furnace.
Ordinary furnaces are called coal gluttons. There may be good reasons for that-we don't know. But-we have built the "Sunshine" Furnace so that it
is very easy on coal. Hundreds of peois very easy on coal. Hundreds of people now using the "Sunshine," and havthe "Sunshine" makes two tons of coal do the work of three. Evidently the "Sunshine" Furnace saves coal and money.
The ordinary furnace has a water-pan hidden somewhere about the base. There, it cannot carry out the purpose for which the water-pan was devised.

The water-pan of the sunshine Furn-

radiator near the dome-the heat laps up the water, before being diffused all over the house. It contains the same balmy June day Plainly as far as the water-pan is concerned, the "Sunshine" is the furnace you should buy.
There are many more reasons why you should invest your money in "The Understudy of the Sun"-McClary's "Sunshine" Furnace. Call on the McClary agent and ask him to show you all the mechanical reasons and exclusive devices which go to make the "Sunshine" the best and therefore the cheapest furnace you can buy. Write us at our nearest address if you cannot get in touch with him.

And the short, surong teeth of "Sunshine" grates simply grind up clinkers.
The "Sunshine" Furnace is the best as far as grate construction goes.
Shaking an ordinary furnace is hard, back-breaking labor,. You don't need to
shake the "Sunshine"-you simply rock

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Scotch Shorthorn Females for Sale $\begin{aligned} & \text { Iam offering at very ream } \\ & \text { sonable } \\ & \text { pricose } \\ & \text {, temalem }\end{aligned}$ trom one year to five years of age The obung geres are by my grand old atock buil, Soottiah fero in calt to bim. Their broceding is unoexcelled, and there are abow animato

SHORTHORNS AND CLYDESDALES We have for sale four good



SALEM SHORTHORNS Hobdod by (Imp.) Giniond Marguibumiong junior championship honors at Toronto,
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 and heifers in calf, at prices most reasonable.
Farm $/ 4 /$ mile from
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$\mathbf{Y}^{\text {OU can make an investment }}$ pay $\$ 15$ to $\$ 18$ per day, nine year if you will months during the BUCKEYE TRACTION DITCHER
With this steam or gasol' ne power machine, yourself and a boy can dig
from loo to 5 rods of ditch a day, according to the depth and length
of the trenches and of the trenches and the nature orthe
soil in which you are operating: One man can operate the gasoline

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 You might as well do the work as some other man, and become yourown boss. Farmers want machine made ditches, because they are of uniform depth and perfect to grade,
and the farmer does not have to and the farmer does not have
board a gang of men but only the operators of the machine


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Have deairable Shorthorns and Leicester sheep.
Cowi are hibhy-class mikikers. A hansome young
Clydeadale stallion tor sale A. W. SMITH, Maple Lodge, Ontarie Shorthorms of Show Calibre
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 The tomales are of the best Soctch families. Young Telephone conoection. EYLE BROS. - - Ayr, Ontarle IMPORTED BULL FOR SALE Fletcher's Shorthorns-(Imp.) Spectator $\begin{gathered}\text { and choice heiters for sale }\end{gathered}=50094=$ GEO. D. FLETCHER.
OAKLAND SHORTHORNS

 JOMN HLDEPE \& SON, HENSALL, ONTARIO Jas. W. Glendinning, Veterinary Surgeon Office and residence, Main,
Ridglign horses. ase specialty
fur fif desired. Bell 'phone 6 i.
Miscellaneous.
ARSENATE OF LEAD-MILITAR 1. Does arsenate of lead lose it
strength when it becomes hard and dry
in the shipping, or by in the shipping, or by evaporating
Would it be all right to add water to make up
in keg ? in the Canadian regiment?
3. How long do they retain the title? 3. How long do they retain the title
4. How do they attain the title?
A SUBSCRIBER. Ans.-1. Commercial arsenate of lead
put up in paste and put up in paste and powder form. No doub
it is the paste form which is referred $t$ here. The strength of the paste depends
on the water content. arsenate paste containing 25 per cent.
water, will contain half as much agai
of actual lead of actual lead arsenate as a pound o
lead arsenate paste containing 50 per
cent water cent. Water. Allowing the paste to dry out makes it more difticult to get a uni-
form grade of the material. It should
be shipped with be shipped with as nearly as possible 40
per cent. Water in it, and the buye
should keep should keep a layer of water over the
paste to keep it from drying out paste to keep it rrom drying out. The
only thing to do is, as suggested, make
up with water to the orizinal weight being sure to get the water incorporated
throughout the paste. Hughes, Minister of Militia, Parliament
Buildings, Ottawa. RAISING TURKEYS. I read in "The Farmer's Advocate" las
spring about someone who had raise
young young turkeys by feeding them shorts,
and I have heard some people say the mixed shorts and bran together and had
good luck raising them Who has tried either the shorts or bran
write soon about how they fod what they mixed it with they fed it an gave their turkeys to drink? Is wate
good for young turkeys? Some say
couse causes bowel trouble. Would you prefer
feeding the young turkeys something els feeding the young turkeys something else
besides bran or shorts? If so, what
Did you have good luck by feeding the with butter as soon as they are taken swer as soon as pould you kindly an-
some hatching out soon. as I expect Ans.-There is considerable room for keys. Curds from four milk, boiled rice
aatmeal, corn meal, cracked most arccesss are good, but many of the or the first five weeks, except that the
turkeys are started with bread ooaked in
skim milk the first day, gradually sult
$\qquad$
$\qquad$
$\qquad$ ime to the hen in the coop and to other
fowl. Sour food must be carefully Leave no teed lying about on hot days ach young poults want to drink. At
each feeding, clean the dishes and give
$\qquad$
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## SAVE YOUR HORSES

$\mathbf{W}^{\text {carries out on that designed you have } a \text { wagon that is easy on horses. }}$ what it You need not be afrailt for. Loo make your 1 HC wagon work. That's conditions for I H C wagons. I H C wagons have every advantage that
first grade material and skilled labor can give them. They back up with first grade material and skilled labor can tive them. They back up with
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## Chatham

will do all the work you would ask of any was selected, air-dris wheels - the foundation of wagon service-are built from strength and service, and the workmanship on them carries designed for of the designer. Hubs are accurately bored and mortised Bo plans fir accurately, and, the skeins and skein boxes being paired, easy running sassured. The wheel has the proper amount of dish to make it as strong The care and thought given setting is evidence of equal thoroughness in the build parts of I H C wagons. Let the I H C local agent show you You can get literature and full information from him, or by writing the nearest branch house.

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 , 13 , 10 pars, or, better breeding and quality. We also have four imported Clydesdale mares, safe in foodW. G. PETTIT \& SONS, Freeman, Ontario





Shire Stallions and Mares, Shorthorn Cattle (both sexes); also Hampshire \$wine. Prices reasonable.

Burlington Sta. 'Phone

MAY 30,1912
QUESTIONS AND ANSWERS Miscellaneous

QUACK GRASS
Am inclosing a weed which I found on
my farm, and which is giving me much thick and matted, and is hard to plow It chokes out most every kind of grain
Would you kindly let me know, through "The Farmer's Advocate," what it is,
and if there is any way to get rid Ans.-The enclosed specimen is the well known, troublesome weed, quack grass, or
twitch grass. It is a persistent ars and from seed and underground reot stocks, soon becomes so thick as to
crowd out other plants. tion, preferably a summer-fallow, is the Plow lightly, and work frequently with a Plow lighty, and work frequently with a
broad-share cultivator. The cultivator usually works better than the disk harstems out, while the disk cuts them and they sprout at each joint. Where the
soil is very badly infested, it is some times necessary to rake up the rootstock atter cutivating and burn them. A good Sown to a smothering crop, like rape or cultivate until it gets too large. Either in a sickly condition after the cultiva

CUTTING CORN-PLANTING PO ATOES A N D MANGELS GROWTNG ATFALFAN 1. Can fodder corn be cut with
binder? If so, how far apart is necessary to drill the rows? What is
the best distance for a big yield of fod2. Have the stations conducted exper ments as to the best time to plant pota-
toes (not early ones) for best results 3. How early should mangels be plat 4. What is the relative value of whea as compared with oats for feeding horses,
when they are fed in about equal proportion? What proportion of wheat best to feed?
5. When alfalfa is sowed with a nurs crop ot barley, is the barley usually cut
to make hay, or when ripe? F. M. Ans.-1. The best binder for cuttin corn is the ordinary corn binder, special
ly devised for this purpose. To cut with the ordinary grain binder, it would be
necessary to sow it thickly in order to Keep it fine. It would be better to plan
in hills about 40 inches ${ }^{\circ}$ apart, and cut with the corn binder, or with a hoe. 2. Experiments have been conducted at
the Ontario Agricultural College with respect to the time of planting potatoes Results could be obtained by dropping a
card to Prof. C. A. Zavitz, of the Field Husbandry Department, O. A. C., Guelph
Any time between May 24th and Jun 10th, according to soil, locality, and sea3. Just as soon as possible after the grain seeding-the earlier the better.
is well to have the soil prepared in the autumn. Some put them in before the grain seeding is finished.
4. Whole wheat fed alone to horses has factory. Fed mixed with other grains, wheat and half oats is rather heavy feed
iny of wheat. One-third, or onealuarter minht give better results. Wheat is and slightly lower in protein and fat, by
weight. Its proportionately high weight weight. Its proportionately high weight
in comparison with oats, make it a much that oats are the best feed for the horse, hin, about a bushel per acre, and is alOPERA AT HOME "timer-"Is your married life one Culywed-"Well," since our baby's bee W been like an opera, full
marches, with loud calls for th

## Breeders' Attention!

Summer Pests Injure the Condition of Your Cattle-Let Us Improve It.


## Cow Comfort


 parations claiming to be ".just ns good, "Cow
Comfort possesses remarabebe antiseptic qual.
ities, and has a remarkable healing effect for all ties, and hasesses remarkable healing effect for all Given interaally, it constitutes the best pre-
ventative agains colera
vand and cures intest
etc.

Sold in gallon cans at $\$ 2.00$ each, but as the contents of a can is to be diluted i
of water, it makes the price realy 40 ctc. a gallon.
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 cown and nome calvor for sale. B H. BULL. \& SON, BRAMPTON ONT,
Production and quality. Please Mention The Advocate

Cattle and Sheep Labels
 NOTIOE TO HORSE IMPORTERE GERALD POWELL Commission Agent and Interproter Will moend importerb at any port in Prance or Bot mos ; boot reforencoes. Corroupondence solidited. For Sale: Two Jersey Bulls
 Geo. W. A. Reburn, Massawlppl, Que. For Sale-A pure st. Lambert Jersey bull. Markham. No. 81910 ; dam Plorence of Glen Rouge, Torkham, Nor particularss, address 1. M. ROLPM, Glen Rouge Farm, Markham, Ont. Balaphorene A. J. Jerseys ${ }_{\text {tion tock }}^{\text {Founda- }}$ t. Lambert, Coomaasie, Combination ; steck from grandson of Bim of Dentonia; also a grandeon of yandotte ogss, \$1 per 1.3. Jos.
High Grove Stock Famm No better Jersey blood in Canindo. Stock al Arthur M. Tufts, P. O. Bex 1111 , Tweed, Ont.

## $\$ 300$ T0 ${ }^{\$} 1000$ A YEAR IN EXTRA PROFITS FOR YOU

©This is not a mere claim. It is the actual experience of all owners of Sharples Mechanical Milkers. We don't ask you to take our word, nor their word, for this
We stand ready to prove it on your own cows or no sale. Mr. Henry Fielden, Supt. Branford Farms, Groton, Conn., where some of the highest priced Guernsey cows in the world are milked with a Sharples Milker, writes:

## 

## ?THE SHARPLES MECHANICAL" "IILKER

has the "Teat Cup with the Upward Squeeze,
which pushes the blood back with each pulsation, overcoming the stumbling block of all former mechanical milkers. It leaves the teats in a perfectly normal condition, the same as after hand milking. The cow is treated so gently she enjoys it, and fears no injury, no abuse, She stands perfectly contented piving down her milk more readily and more freely than when milked by hand. The yield is increased-your dairy profits grow. Read this letter from Hon. Wm. C. Sproul, Chester, Pa.



0.Fill Out the Coupon-Send for Catalog Today Let us tell you how we will put a Sharples Milker in your dairy and guarantee it to give you perfect satisfaction or no sale. We prove it does the work oy your satisfaction. We give you ample time for trial. Send to your satistaction. Wilor Guranteed by a company that has been making

THE SHARPLES SEPARATOR CO.


## Who Pays the Duty?

You can't get away from the fact that directly or indirectly the DUTY has to be paid by the con prices for calf meals of foreign manufacture when you can buy CALFINE 15 to 20 dollars a to cheaper and secure at least equal and in most cases superior, resuts
CALEINE ${ }^{66}$ The Stockman's Friend, is a pure, wholes-me, nutritious on many of the largest and best on many of the largest and bes minion.
Ask your dealer for a 100 lb . bag of CALFINE as a trial-you will dealer dies not handle it, write us. We will de the rest.
Feeding Directions Sent on Application.
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TORONTO, CANADA


First Agitator-"How do you manage to be so popular with the, people ?" In-
Second Ditto-"It is very easy. In-
stead of trying to show the people I stead of trying to show the people
meet how much I know, I make it clea

Suffered With Merve Frouble For Two Years.

- AS mpossible for him to SLEEP.
Mr. Chas. W. Wood, 34 Torrance Btreet, Montreal, Que., writes:- "For two years I suffered with nerve troubep.
and it was impossible for me to sleep. and it was impossible for me $I$ not matter what time went bed, in the morning I was even worse than the night betore. I consulted ake doctor, and he gi.ve geing to bed. - half hour belore gas all zight for a time, but the old trouble .eturned with greater forc than before.
gave me half a bor of Milb.rn's Hear and Nerve Pills. I took them and I got
such satisfaction that I got another box, ouch satisfaction that I got another bor, aleep from 10 p.m. until 6 a.m., and now feel good.'
The price of Milburn's Heart and
Nepre pills is 50 cents per boz, or 3 bozes Nepive Pills is 50 cents per box, or at al
for $\$ 1.25$. They are for sale at and dealers, or will be mailed direct on
receipt of price by The T. Milbura Co. receipt of price
Limited. Toron $n$.

QUESTIONS AND ANSWER Miscellaneous

## filly knuckling

 have a three-year-old mare knuck lin over in the hind fetlocks. Wouldkindly give me a good remedy for it Ans.-Give rest and blister. For
blister, use 2 drams each of biniodide mercury and cantharides, mixed with
ounces vaselino. Clip all the hair ounces vaseline. Clip all the hair of
around the joints. Tie so she canno


 worked, the best treatment is showering
with oclo water frequenty, and applying
bandages when in the stable blistering is the betere treatment.
BREEDING BULI I have been a subscriber to "Th
Farmer's Advocate", for a number years, and can honestly say that it it
worth the money. We have found it valuable paper in all respects, and it espe
cillly in the care of yount Will you kindly tell young foals.

conven your earliest | $\begin{array}{l}\text { dience, how many cows a a young bul } \\ \text { should serve the first season ? } \\ \text { We have }\end{array}$ |
| :--- | year old the 1oth of this month. ${ }^{\text {mas }}$ ter on coover and has bent consl this win

bran, onts and barley chostaks, roots cows should he be bred to this season? Ans.-This is a question which is difif
cult to answer, as a great deal depend upon circumstances. Do not overwark
him. Many a bull has been ruined by doing too heavy a service during his first
year. We have known bulls to serve is too many for a youngster. From
to 50 would be quite enough, and und average conditions, the lathter number
rather hight. Perhaps a good averays would be 40, and care must be take
that they are spread out over a reason
able length of time. You must, how ever, be governed largely by the vigo
and development of the bull. GETTING EARLIER FOALS1. I have a Percheron mare which wit
foal about July 4 th. It is a little late How can she be put back so she will foo
a a month earlier? devil in some spots. What some thine thi
deason would $I$ plow to keep them down Ans.-1. Nothing should be done to . s .
ter or hasten her prosent fonline Irir or hasten her present fonling. The
lest way to get earlier colts and kee.
her breading each year, would be to l.reed her on the ninth day after toaling
Most mares will take the horse on tha
dise mad ceive. This will bring her foaling aboul
three weeks earlier another year, and in
two vears tiul eln
 "ery, year,
hen deve devil or blue weed,
hiemial weed, with a deep tap root.

vent seding, it gites litule trouble.
should be cut when in carlv bion


clean cultivation and a rotation of c
Fall plowint, and thorough sprink
$\qquad$

Comperition was ken, whas virices ring

## SHE PAID To Escape These Disks!


women pay hard telling how pluck their own pay harses to escape washing disk filled cream separators. Here is just one cided to have a cream separator. He thought only of the purchase price and refused to pay more than the cost of
a cheap, disk-filled machine. Like other women, this lady could not
bear the thought of washing 40 SHARPLES

Dairy Tubular Cream Separator She knew that Dairy Tubula piece shown in the right-
 So, to what her husband was willing to pay she added enough hard-earned money from her own slender purse to buy a sharples ubuar. And now she What reater praisco could be e eiven Tubulars than the fact that women so greaty prefer Do you want a froe triel? Do you want THE SHARPLES SEPARATOR CO.


FITRST AINITUAT SHATコ of district of beauhar vois live stock r the auppices of DISTRICT OF BEAUHR NOIS LIVE S
BREEDERS' ASSOCIATION, will be held in connection
June 12th, 13th, 14 th ( $\left(\begin{array}{c}\text { 14th } \\ \text { sale }\end{array}\right.$
100 AYRSHIRES 30 HOLSTEINS
Showyard winners and Record of Performance animals, consigned by the foremost
breeders and importers in Canada. If you need somethins for your show herd, or a foundation Por a new one, here is your opportunity to secure the
your own price. Tuberculin tested. AIso 20 REGISIERED CLYDESDALES.

Do not fall to write the Secretary.Treasurer for a catalogue

复
 Stockwood Ayrshires

D. M. WATt, ST. LOUIS STATION, QUE.


Ioronto salt Works. 128 Adelaide st.
 AYRSHIRES FOR SALE|CHERRYBANK AYRSHIRES !
 Ayrshires and Yorkshires - We have betill ome good young bulls. Now is the timo io ALEX. HUME \& CO., Menie, Ont.



cos

 Dungannon Ayrshlres and Yorkshres-| HIGH-CLASS AYRSHIRES
 HOLSTEINS, YORKSHIRES, HACKNEYS

## THE OXFORD DISTRICT HOLSTEIN BREEDERS' CLUB

auction sale of registered holsteins in the curling rank.
City of Woodstock, on Wednesday, June 12th, 1912, Sale to Commence at $1 \mathrm{p} . \mathrm{m}$. sharp

80 HEAD

Mostly R. of M. Cows and Heifers from R. of M. sires and dams.
Only a few males from high-performing ancestors.
This is strictly a high-class lot of Holsteins, and everything that goes into the ring will posiively be sold to the highest bidder.
GEO. RICE, Secretary,
illisonburg, ont.
M. L. HALEY, President pringford, ont.
 springford, Ont

The 0xford Club are behind this sale and have very strict rules, so as to give all a square deal.
A public meeting will be held the night before the sale to give all a good time.

Write the Secretary for a Catalogue.
R. E. HAEGER, Auctioneer, Alsonquin, III.

WANTED-CREAM



THE TORONTO CREAMERY CO'Y, LTD. Maple Soil Stock Farm of High-Testing Holstelns -1 have
at present some bull calves, with dam and sire; dam averaging over 25 lbs.
ob butter in 7 days, testing better than
H. C. Holtby, Belmont P. O., Ont
eelmont Stn., C.P.R or Glanworth Stn., G.T.R

Holstein Cattle The most profitable dairy breed, greateot in size, milk, butter--at and in vitaity. bend ror
FREE IIlustrated descriptive bookiets HOLSTBIN-FRIESIAN ASSO.
Houghton, Soc'y, Box 127, Bratteboro, Vt.

Holstoins of Quality
Write us to-day for our proposition, telling you how any good dairyman may owna
registered Holstein bull from 2 Record-of-Performance cow without investing ${ }^{2}$.
ent for him. Monro \&. Lawless, "Elmmdale Farm," Therold, Ont.
The Maples Holstein Herd ffers a splendid lot of bull calves, all sired by Prince

WALBURN RIVERS,
Folden. Ontario



For extended pedigrees write: ${ }^{7}$ days.
Evergreen Stock Farm offers a choice lof ervice, from high-testing, deep-milk ing Record of
Aerit ancestors. Also a few fomales for sale. Herd
 Maple Grove Holsteins- Herd be aded Hengerveld, the greatest 30 lbs. back butter bred buid
of the breed in this country. For stock of this kind, H. Bollert, Tavistock, R. R. No. 5, Ont. Holstein Bulls for sale-springbant
 onis. Livining Springs
Maple Line Holsteins"and YorkshiresOlantha Sir Abbekerk 2nd. whoses dam, sire's dam
dam, average 29.61 lbs. butter days. For sale a argain pricese choice buil calves from R.O.P. cows
W. A. BRYAN, Middesex Co., Cairngorm, Ont Holstein heifer calves-From heavy milh GLENORO STOCK FARM, Rodney. Ont. Whenwriting mantion this naper

## 

 Sreeders of Holstein cattle, and all otheres hiterested in the great black and white Ived of darisy catte, will be the frist tein-breeders' Club, in the skating rink the town of Woodstock, on Wednes . June 12th, when 80 head selected st Holstein breeding county, will be sold auction. Ve club, no animat is is aceepeted for for entry .h the sale until It is transerred to the animal appearing in the consenenlygue will positively be sold to the highest bidder,
no matter what the price. intended to be an annual affair sale is everything connected with it will be strictly straight and honorable, and every was represented. In the selection
his lot, great. care was exercised allow only high-class representatives
the breed to be offered. An enumeratio
af the entire lot in these columns wetl of the entire lot in these columns would
require too much space, consequently he high-class quality of those consigned, but a post card to Geo. Rice, of Tillsonburg, will bring a catalogue giving full
particulars of the entire offering. For particulars of the entire offering. For
the benefit of the breeders who can make convenient to arrive at Woodstock the
vening before the sale, a public meeting, Inder the auspices of the Board of Trade
of Woodstock and the Breeders' Club, of Woodstock and the Breeders' Club,
will be held, when prominent speakers
will be present to deliver addresses on on
topics of interest to live-stock breeders will be held, when prominent speakers
will be present to deliver addresses on
topics of interest to tive-stock breeders
as a whole, and those engaged in dairy-
stock breeding in particular. All breed-
ers, and others interested, should make
ere n elfort to be present. The consig s a grandson of the great Prince Posc
calamity, who has sixteen sons in the R. O. M., and his dam, Midnight Gem fecord of 17.11, and at five years has a secord of 22.79 lbs. The females he
ffers are all young, Doralice Myrtle De afers are all young, Doralice Myrtle De
col, at two years, made a record of even days, and of butter, 17.54 lbs.
Jary Mogi De Kol, at two years, made of butter, 14.92 lbs., and of milk 366.2
obs. in seven days. Lena Josephine De
$\qquad$
the sire ot the wilds y butter production. Also sire or the three high-
 than ever.
 Centre and Hillview Holstelns - We are offoring young bulk from Si of his dam sire dam and grand damomis 602.8 ibs. mill Butter Bance
 IGH-CLASS REGISTERED HOLSTENS. Nothing more for sale until June 12th On that date
 ne wanting choice cattle at h. hown price should attend this sale as in sure

## 80 HOLSTEINS 80

GREAT DISPERSION SALE
of pure-bred registered holstein cattle,
 MONDAY, JUNE 10, 1912

W. A. TACKELL, HOLBROOK P. O., ONT.


KING SEGIS WALKER The highest pedigreed sire in Canada. Average record of dam, gr. dams, and g .
 whose dam is a daughter of Pontiac Korndyke, and A A. FAREWEIL

## LAKEVIEW HOLSTEINS!

Bull calves sired by Dutchland Colantha Sir Mona, and out of heifers sired by Count

Telephone.
E. F. OSLER, BRONTE, ONTARIO Fairview Farms Herd

 Lersald denough to
grat daughter.
E. H. DOLLAR,

Noar Prosoott
MUEVELTOW
SUMMER HiLL HOLSTEHN CATTLE and YORKSHRE HOGS
$\longrightarrow \square$

WOOLLet us know how much you will have this season, and the breed, that we may quote you our prices. Don't fall to write us before you sell.
E. T. CARTIR \& CO.

84 Front St. E
TORONTO, ONT.
Southdown Sheep

Angus Cattle
White, or come and ase my young bulls and HOBT. McEWEN, Byrom, Omt.
O. I. C. Weotief for sale the Chester ister No. 6404 ins sired boar, Long Siler tollow, reeg. dam white Beauty 3o7 dei Longtelelow weighs between 350 and 400 lbs ., was farrowed Oct. 22,, , 209 , reason for selling is
akin to to too many of our breding Price, s4s for quick sale. GLLEN ATHOL FRUIT RANCH PAVID SMITH, Mgr. st. Catharimes, omt. The Tamworths incanada-I have a par-
 He breed, Write me. Hi RRBERT GERMAN,
George, Ont. Long-distance phone. HAMPSHIREXXWINE C. A. POWELL.
Four miles north of Lodran.
Arva, Ontarlo HIS IDEAL. man married a girl on his deathbed so she could have his millions when he was
gone. Could you love a girl like that?" Jack-"'That's just the kind of a girl
could love. What's her address?"
SEVERE COLD
DEVELOPED INTO PNEUMONIA

BOCTOR SAID HE WOULD NOT LIVE.

Next to consumption there are more ceather froms trouble.
There is only one way to preven pecumonia, and that is to cure the cold fust as soom as it appears. Dr. Wood's forway Pine Syruy will do this quickly and effectively.
Mr. Hugh McLeod, Enterhazy, Sask., rites:-" My little boy took a very severe The doctor said he would not live. I got come of your Dr. Wood's Norway Pline oyrup and he began to improve right away. He is now a strong, healthy child, and showa no signs of it coming back."
Do not be talked tato buying any oth Norway Pine Syrup, but indist on getting he arginal "Dr. Wood's." It is put up trade mark; price, 25 centa.
Manufactured only by The T. Millbarr Co., Limited, Toronto, Ont.

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## B. 9 BLOWER CUTTER

Fourteen-inch Mouth; Three Knlves; Carrier Feed Talle. Simple construction. Does the work. MODERATE IN PRICE.

## J. FLEURY'S SONS, AURORA, ONT.

## IMPORTED SHEEP

Those wishing an imported ram, a few choice imported ewes or a few show sheep
to make up their show flock, should write me, MOLESCROPT, BEVERLEY, E. YORKS, ENGLAND C. HODGSON,

Brantford, Ontarlo AMMERICAN SHROPSHIRE REGISTRY ASSOCIATION Ont
ship of any live-stock association in the world. Life memb rargest memberyearly dues. Write for information. J. M. WADE, SECRETARY, LAFAYETTE, INDIANA Large White Yorkshires|MAPLE GROVE YORKSHIRES


M. J. Davis, Wootstock, Ont M. J. Davis,
C. P. R. and G. T. R.

Astock, Ont


ber of young sows, some bred and other
of breeding age, as well as young ones
both sexes. The Leicesters need words of comment as to their type and got by Marr's Tom 13409, bred by John well on the rich pastures of Sprucedale, and look good for reaching up to the toppers by
fall. At the head of the Hackney stud is the
noten noted prizewinner, Guelph Performer 89
winner of first at Toronto, London and Ottawa in 1901 , and second at Toronto
in 1902 . He is a black of true Haok-
ney mould and ney mould and action, sired by the noted
Square Shot (imp.), and out of the Square shot (imp.), and out of the great
prizewinner and many times champion,
Miss Baker (imp.), by the world-renowned Ruby. Among the females is the noted
show mare of other days, Wenona Dainty,
bred by Burpess \& Sons. bred by Burcess \& Sons, of Wenona, ill
sired by County Centlemen 3rd, dan
Black Bess. hy Hankell Black Bess, by Hawkstone Shales. Among
her other winnings, this mare has to her
credit first at Illinois State Fair form both 189.1 nod 1895. out ot her ford


 State ther let sotland tor the United special train was arranged for convegnane
of the catte, the entire lot comprisine
 also shipped to the same destination. Clyd desdales are still coming to Canadae
A reent issue of tho
tho soot ish Farmer

 Netherall Banass, Kivikud. Montgomery; a big black horse to Wm. Colquhoun, of
Mitchell, Ont., and Cattle Co., Douglas Lake Douglas Lake two-year-old colt from Peter Dewar, Arn-
prior, Kippen. prior, Kippen.
Canada, J. W. Besides these coming to
Ogden, of the States, gets six mares from John Slater ange, Kirkcudbright.

HOLSTEINS, YORKSHIRES, LEICES Five miles directly west of St. Thoma on the main road to Fingal, lies the
splendid 300 -acre stock the property of A. Watson \& Sons, $\begin{array}{ll}\text { swine, } & \text { Leicester sheep, and Hackney } \\ \text { horses. } \\ \text { Sprucedale is }\end{array}$ stock farms in the county of Elgin, beaytricts of Ontario's most beautiful county. The farm appointments leave little
to be desired for the comfort and convenience of both man and beast, in fact were forcibly impressed with the idea
that home life on such a farm as Spruce dale, about solves the problem of how to Watson \& Sons are firm believers in the fact that it costs no more to keep
registered animal than it does registered animal than it does a scrup
or grade, and nearly everything on the
farm is registered Tor sale. The Holstistein herd number any and
Something over thirty head, from calve up, and while as yet hone of them have ever been officially tested, they have the
appearance of producing ability that
make the official records when aiver chance. Any of these are fiven sale.
Some six or eight yearlings, and the
same number same number of two-year-old heifers, look
like good buying at the prices asked
The stock The stock bull in service is King Peter and out of the great cow Queen Mab,
The Yorkshires are of the usual modern
type. The brood sow type. The brood sows are all of the
ever-popular strains, Minnies and Blooms,
the from the noted' Millgrove and Monkland

# "It Took Me Fifty Years to Know How to Give You Better Roofs than any other Man" 

"I tell you, every farmer in Canada should realize the big share a good roof has in making a good barn. That is my life-work-making roofs. I have been making miy roof better and better for more than fifty years. What I have done for farm roofs is one of the biggest things ever done for people who farm.'

$$
\begin{aligned}
& \text { "You ask me why a l } \\
& \text { will tell you. You build } \\
& \text { protect it many years. Y } \\
& \text { worth of produce under th } \\
& \text { pound of this produce cos } \\
& \text { roof lets it get spoiled by } \\
& \text { year. This lost money is } \mathrm{m} \\
& \text { roofs will last for several y } \\
& \text { they are kept painted. } \\
& \text { But a roof is mighty hard } \\
& \text { to get at. It is not too } \\
& \text { safe to work on anyhow. } \\
& \text { Once a roof starts to leak, } \\
& \text { it is often left as it is. } \\
& \text { The result is the things } \\
& \text { you have in your barn } \\
& \text { spoil. This is lost money, } \\
& \text { and soon amounts to more } \\
& \text { than the cost of a good } \\
& \text { roof." }
\end{aligned}
$$

ou ask me why a barn roof is so important. I Your you build a barn and expect the roof to protect it many years. You put thousands of dollars' worth of produce under that roof while it lasts. Every pound of this produce costs you hard work. If a poor roof lets it get spoiled by wet, you lose money year after year. This lost money is many times the roof cost. Some roofs will last for several years. Some roofs will last if

A Roof for Any Man See What a Good Roof Can Do!
"I have spent my life making a
luw-cost roof that any man or his luw-cost roof that any man or his
tinsmith could lay right. This roof of tinsmith could lay right. This roof of
mine saves the stuff stored under it. It saves the barn framing and beams. It saves the foundation. This roof of mine doesn't need special roof

## Good for 100 Years

 "The big point about my root is that tad it ou a year or two. Ht it a realtoon flom the frst year it is on yen foal tom the arist year this on tast year. And do you know when that 'last year' will be will use that barn, and your grandson will use that barn before that last year' comes. I want to pound the
fact home to you that when you get roof from me, you get a roof that is
good for one hundred years. Think of getting a roof that makes your barn good for a hundred years. An

That is why I say, 'I have helped the farmer more than any man ever did.' My roos produce in your barn in 100 years. A roof that will do that

The PEDLAR PEOPLE Limited, of
 PORT ARTHUR
45 Cumberland St $\qquad$
$\underset{76 \text { Lombard } \mathrm{St}}{\substack{\text { WINNPEG }}}$
begina
st. ${ }^{7}$ warehouse.
st

This Took 50 Years "You are be ginning to see sometring of the big work I have done. I have maof that stands terrific cold and heat, that stands tremendous rains, that stands ice, that stands earth quakes. In fifty years, I have made Pedlar roof better and better by little points added every year. It has world sales to-day, just because it is the best roof in the world at its very moderate price

MY LATEST TRIUMPH " Then, a few years ago, I put my finishing touch that made my roof wonderful. I had been troubled, not by my roof design, but by the metal in it. It seemed impossible to get a metal which would not rust. I had to take the best metal I could get. The design was all right. hetter for fifty years At last I struck a clew in Europe."
" You know they have cathedrals "You know they have cathedrals Yet the iron hinges on the doors are as good as ever to-day, though they were
hammered out hundreds of years ago. arnmere
I said to myself, 'Why not make up
my roof in this peculiar kind of iron, my roof in this peculiar kind of iron,
so my roof will last like those door so my ringes? Well, sir, that was a hard job. It was hard to get that iron duplicated. I worked for a long time
and my chemists worked with me to and my chemists worked with me to
is worth going after a good long

## Stands the Arctics

 This roof is so good that the Can-adian Government Bernier Arctic Expedition used it for the Arctic regions. winds and ice and poor foundations to stand up under. The North-West Mounted Police use it. The Canadian
Government has found no better roof for them. My roof is a good roof for the Arctic Circle. It is a still better
roof for milder climates elsewhere."

## Stands the Tropics

 "But that is not all. My roof isused in the West Indies. Here is a temperature of 135 degrees at Porus,
Jamaica. My roof stands it. In Jamaica. My roof stands it. In
Jamaica during rainy
season at Montego Bay, rain falls 10 inches in a single day. My roof stands it. In Ontario
rain falls 30 inches in a whole year. rain falls 30 inches in a whole year.
My roof in Jamaica stands in 24 hours the rainfall it has easily 4 months for in Ontario. Is that a good roof? Is a
roof that stands the severe conroof that stands the severe con-
ditions in both Arctics and Tropics good enough for you? You get exact-
ly the same article, made on the same machines."
Used All Over the World "Not only that, go down to South
Africa. Go to the farms there. Go around Port Elizabeth, or Durban, of up in the People will go around the world for my roof, because it is the best roof in the world. It will last 100 years. People use my yoo. They get it from me. They have searched the world for a roof that would stand
earthquake straining. My roof will."
> "I am the best friend the farmer has, because I have given him one of the best roofs in the world at a very low cost. I want to send out more of my ban books, because l wh built. I send a book free to you, if you will ask or it. Write me to-day."

get it. I stuck to it just as carefully as I had stuck to bettering my roof.
And I got it at last. That's the metal
I use to-day,"

## You Get the Benefit

"My roof is the only roof in the world with this kind of non-rusting can come to and say. II want a hun dred-year roof at about the price would pay for cedar shingle.' I am the ohly man that can deliver tha d of soan.
"My roof will not rust to the leaking point within 100 years. It save weather. It saves the barn from thaw water and lodged ice, because the seams carnot be gouged apart. saves the barn from fire, because stick. on the roof will not harm it, or harm the barn under it. Lightning cannot burn a barn with my roof on it My roof is a perfect conductor of elec defy heat and frost and protects in winter and summer. It protects eve though the rafters sag. Wind canno blow my roof off a barn. This is be cause it is a ventilated roof. It keep your barn ventilated and stands the

## Get My Barn Book

"ROOFING RIGHT.' This lets you 'ROOFING RIGHT.' This lets you dig into more facts about the Pedia
roof. You will see how clean it is. It gives the best cistern water you can gather, as it is self-cleaning. This
book shows scores of good barn designs book shows scores of good barn design

- the best barns in Canada. Ever one has my roof on it. You will get big help from my book, and I will sen it free for a post-card, because you can
plan your barn from it, whether you use my 100-year roof or not."
Oshawa ${ }^{2}$ LONDON OHATHAMM



## Get Ready for Harvest



SIDE DELIVERY RAKE


## and Side Delivery Rakes

The Rake The top illastation stows our Sido paligery Pate There loader. The operator simply drives round the field-he doesn't have to give any attention to the working of the machine-the action of the three sets of teeth leaves the hay in the best possible condition for curing-loose and bulky. Light or heavy crops are all the same to this Rake-it is built for hard work. The Castor Wheels at the rear ensure perfect work under all conditions. This machine is made of the finest quality of materials, is well braced and strongly built.
The Loader
The "Champion" can load at the rate of two tons in ten minutes-think that over for a few解 with heavy wind slats to prevent high winds from blowing the hay off the carriers when the machine is in operation. You can't realize the time, labor and money saving qualities of these two machines until you have actually tried them in the field. Write for our fine illustrated Catalogue-it gives you a full list of harvesting machinery.

> This binder is posit hachine on the market. We haven't room to detail all its many excellent merits
here, but we do want you to consider Notice that there are three long spokes and three short ones-based on grain is being compressed and tied, the packer arms require all the power they can get to make nice tight sheaves, and the chain whic
Sprocket is then pulling over the long arms of the wheel, exerting a steady, powevertuldraw. After the bundlese
are compressd and tied, the chain has reached the are compressed and tied, the chain has reache 1 the
short arms of the Eccentric Sprocket,and must therefore travel farter, thus the bundles are discharged quikcly, and everything is ready ayain for another bundle to be
compres ed, ticd and disclarged. In short the 1 ng arm- develop power, the short arms speed. But get our
FROST and WOOD No. 8 MOWER

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agons and Carriages.

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[^0]:    best results are obtained from advocate a

[^1]:    OTM ORGHARD GROVE HEREFORDS
    Lons A Stone tone phene

