## PAGES

MISSING

## Zhe <br> Farmer's Y 1 dvocate <br> Establisnee

"P Persevere and
Succeed." and Home Magazine

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3

## EDITORIAL.

CEASE BREEDING TUBERCULOSIS At the
Washington, markable for the saneness, breand grasp of the subject which it betokened on the part of its author, was a paper on the Control of Bovine Tuberculosis, by Dr. Ji. G. Rutheriord Livestock Commissioner, Ottawa. Judging from report, this deliverance, which we reproduce prac
tically in full, excited considerable interest, and must have appealed to the common sense of the more practical element of the delegates present. In his paper, which every stockman should make it a point to read, Dr. Rutherford quite
thoroughly disposes of the idea of compulsory tuberculin-testing and slaughter of all reacting animals. The futility of this system as a means of eradicating bovine tuberculosis has been demon-
strated in States and communities where the agistrated in States and communities where the agi-
tators have had their way, while the econamic tators have by the compulsory slaughter of slightly affected animals in unfattened condition, and mare particularly of valuable pure-breds, is enormous.
The futility of the attempt at wholesale extermination results from a number of factors. the first place there is a period of incubation of the disease ranging from eight to fifty days, depending somewhat upon the mode and degree of
infection. This fact necessitates the retesting of infection. This fact necessitates the retesting of
herds to insure against the retention of animals herds to insure against the retention of animals
which might have the germs incubating within which might have the germs incuacinag to get
them, and is a specially awkward snag them, and is a specially awrease of additional
around in event of the purchast
stock, involving as it would, test, isolation and ste test.

Considering the vagaries of tuberculin, especial ly on second, third and fourth tests, in the same herds, the necessity of thoroughly conscientious, wide-awake and experienced veterinarians to make reliable diagnosis of the disease, and the numerous ingenious methods adopted by owners, especian,
of pure-bred cattle, in order to defeat the test, the difficulties arising from the period of incubation are sufficient to exclude from the of dealing tion this compulsory wholesale method ord circum-
with tuberculosis, except in small and wcribed areas in which all, or at least a majority Scribed areas in which and one necessity of stamp-
of the owners, are alive to the ing out the disease, and willing to co-operate
heartily with the authorities in bringing about heartily with
that result.

Against the policy of voluntary testing-that testing in response to the applications of own-ers-the Doctor claims most of the arbuith the against compulsory testing also apply, with in additional one that under this system result in ridding a country of the disease
slow and uncertain. "Even Prof. Bang admits slow and uncertain. Even ropeated and often disappointing results, the patience and courage of (1) Danish farmers not infrequently fail, and they be come weary of well-doing and lapse mang ssstem,
ness." So that after discussing the Ban which, nevertheless, has much to commend it, and also a plan proposed by lr. Nivan, of ar the dis Eng., which aims at the eradication od the exease from certain ${ }^{\text {arms, }}$ and then graduan ound tending the area of oiperations Rutherford inclines favor with stock owners, of systems, which, howto favor a combin itself open to many of the ob-
ever, he admits jections he had previously urged argainst other jections
systems. "Dogmatize as we mav," he concludes, we are still groping, and in who have delved
deepest are the least sure oi their ground." Mean ime, the call is for a general campaign of educa. tion among cattle owncrs and the public. "Bovinie tuberculosis will be stamped out when individual
owners realize that it pays much better to keep sound cattle than to lose money and feed-mainsound cattue than to lose money
taining herds tainted with disease
In this campaign of education the first question o take up is ventilation. Human tuberculosis is now treated wir marve lous success by facts, it is nothing short of disgraceful that we are yearly permitting thousands of animals to become infect ed, owing to the unsanitary conditions under which their owners insist on keeping them. As "The Farmer's Advocate" has long contended, "stockmen are breding tuberculosis a great deal faster through neglect of ventiation and ever be possible to stamp it slaughter of diseased animals."

The paper then refers to the progress of an experiment being carried on at Ottawa for the las hree years, witn the ere dairy cows) formerly of which twenty-oritime Experimental Farm at Nappan, N. S. On test, twenty-eight of these Reppan, seacted to tuberculin, and the whole herd was brought to Ottawa and submitted to the open-air treatment, with the threeford object: first, of ascer taining the effect of open-air treatment upon the diseased cattle; secondly, to ascertain to what ex tent healthy calte kept in corrai wholseased cattle, under open-air conditions, are subject to infection; thirraf, to ascertain from diseased cows. healthy carves coura recations under open-air conkept without any prece have had no shelter but sheds. and excepting a few of the weaker animals, have been fed nothing but hay during the three winters they have been under supervision.
Results to date have been, on the whole, en couraging. Only one original reactor has broken down from generalized tubercutubis, alosis of the udder. Of the healthy animals kept in contact with them, feeding from the same sacks, grazing ovol the same ground, drinking aflect, in spite of not a single one has secome time animals suffering the tact that eneralized tuberculosis have been introduced into the herd and allowed to mix freely with the original members. Of the calves dropped and reared by tuberculous cows, seventy-nive per cent. have so far failed to react, while twenty five per cent. reacted at ages varying from fork months to a year. One call this being old from generalized tuberculosis, Cammeéting on this result, Dr. Rutherford remarks that while t assists in proving that young animals can bo and are most frequently affected through the digestive system, it also shows that in the cass an adults
important part
"Closer to nature" is the slogan of the ago; apply the advice to the keeping of cattle. Nature has furnished our animal protection against orditary climetction conditions, and most of the diseas, and anfections are continued by irrational artificial conditions imposed away with the dark, stuffy, filthy stables, especially the cellarlike basement stables. five us airier stables, more ventlation, more light, more outdoor exercisc, with an ample say perhaps, be successifuly weeded out

PREPARE FOR ALFALFA.
Alfalfa is yearly becoming more widely dis ributed on Canadian farms. Its benoft to the soil and its high place among the feeds provided or live stock, demand that it showid tried it more widely grown. Some eay armer would and been unsuccessrul, but neicybor who hes had discuss the question with a neighoor who has outencouraging results, or stricles in "The Farmer's ined in bulletins and articles in the lines advised should prove generally successful in 1909. The mestell-drained thoroughThe main essentiais are walde of lime and the y -prepared sonts of fertility, clean seed of strong vineral and careful treatment the first season. A mellow, well-pulverized seed-bed is required for all such crons, so that the comparatively small seeds may be closely surrounded by soit particles. If strong seed is put into such soil at any tifie during spring or early summer, while there is a supply of moisture sume the germinate and to give the young plants a good cart so dhat that they derive nourishment from the deeper soit, nothing but the severest winter and early spring weather will result in failure. Prepare at least a small area this fall, preferably corn or root ground that was well enriched for the present season's crop, work up and pulverize next spring, and sow it at conveniont season, Clip it in the summer when it is to, but leave the growth of late summe hald the snow, and the surface protection and to mose such as to induce the sowing of an increased area the following season.
drag before the freeze -up. The split-log drag can be used to first-class dvantage in autumn, in keeping the road surface smooth and neatly crowned, so as to shed rain water and thus preserve the subsoil in firm, dry condition. It cannot be too strongly impressed on everybody concerned that, as King says, bad roads in spring are largely the result of puthing lot of mud and waing acted upon by frost all. The moisture being acted upou the bond of expancs, disintegrating its particles and converting the earthy bed into a condition better as a ing the earthy bed into a than as a place to seed-bed tor spring whoat therefore, particular at-
drive. At this season, ther tention should be given to providing clean ohannels and open outlets for the ditches at the sides of the road, as well as a smooth, even-graded surface on the driveway itself. Now is the time to insure reasonably good roads next spring Not only should the roads be dragged after every rain of consequer them just before they are liable e trozen up for the winter. Lest fall several of road-draggers succoeded in catching several or our reat this critical juncture, smoothing them of just before they froze up for good. The result was beautiful wheeling over ariveways as smooth as racecourses, and when sleighing came it was not marred by big lumpe of ciay protrurt. ing through the beaten sleigh tracks. winter long the result was good road-bollowing spring. Watch and a decided benent the try to drag it at this important stage. Supposing the freeze-up does disappoint by hanging of longer than expected, keep on dragging till winter doess set in. Perse ging will do good
the Farmer's Advocate and Home Magazine.

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Money Order or Registered Letter, which wint be at our risk
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Addreso-THE FARMER'S ADVOCATE, of
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## To Our Club-raisers.

There are thousands of farmers who do not know what they are losing every year through not being subscribers to "The Farmer's Advo cate and Home Magazine." Therefore, we want all readers of "The Farmer's Advocate" to act as club-raisers this year, and send us large lists of NEW SUBSCRIBERS

Send us TWO NEW WAMES for one year, and we will advance your own subscription twelve months, thus making the cash payment only $\$ 3.00$ for the three yearly subscriptions; or for each single NEW NAME, accompanied by $\$ 1.50$, we will advance the date of your addres label six months. Cash commissions or premi ums, as preferred, for larger lists of new names,

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Present subscribers know the value of the paper
Others do not, else it stands to reason
to them.
their names would be on our lists. Some only
require a good word from a neighbor in whom
they have confidence. Others say they are already
taking mare papers than they read. Some, from
reading cheap, shallow, unreliable farm papers,
have come to discount all agricultural journals.
Reason patiently with these, and persuade them
to take a paper that is worth reading. Point
out the good things you have found in the paper,
and tell them how they have helped you. There
is no doubt but that every farmer in Canada
needs "The Farmer's Advocate." It is a favor
ner or

## HORSES.

ACTION.
this country the term action, by universal consent, refers to the trotting gait. It is commay be in external conformation, without action he fails to command attention, and is relegated to the drudgery of his kind. The trot is a gait in which the limbs are moved diagonally. The off fore and the near hind limbs reach the ground simultaneously, and this is repeated by the near fore and off hind members.
The relation of the feet when brought to the ground will vary for each individual, or for the
same individual under diferent circumstances, same individual under diferent circumstancund behind the fore ones; at others they fall more or less exactly upon the same spot, while in some, again, they extend for some distance in front of again,
them.
I
nguishe several varieties of movement are dis the ordinay the French as the short trot,
All these several relations exhibited by the fee while moving may be seen in the same animal at ther is times, while in some horses one less constant under different cir cumstances. As to pace, the extent of ground covered in the action of trotting in a given time , in other words, the length of the step, differs in different horses. In some it is long and reaching, in others short and choppy.

No doubt it has relation with the age, lengt
limb, the force and extent of the muscular and here. The problem, however is very difficult of satisfactory solution, owing to the many factors by which it is influenced. It will, however, be ence is noticed in dilferent animals. It will be observed that many small horses will outpace animals hands higher than themselves. In these cases explanation will be found in the fact that the rapidity of movement of the limbs in the former is much in excess of those of the latter and that the long step of the larger horse is equalled or exceeded by the more frequent repetiion of the step in the smaller ane.
Quite apart from pace, the trot should be marked by symmetry of action; however good the are in harmony with it, the gait will lack that race and beauty which go to make up a good horse. It is noticeable in some animals that the knoes are freely flexed, the stroke of the limbs is step is light and easy. but there is freauently in these cases a marked deficiency of forward pro-
pulsion. The hind action in such animals is wanting in that full and complete flexion of the hocks which impecs the boty forward and gives
harmony to the movements of the whote. When this defect exists. the fore action is seldom of that far-reaching character which obtains in ani-
mals otherwis. conslituted.
The converse of this is seen in those cases The converse of this is seen in those cases
where the fore limls are shot out in a more or Wiss straight line. and the contact of the foot with
the ground appears to fall upon the heels. There hut the rind limbs are advanced in a cigorous manner, and the londy is thus impelled forward. in this instance is decidedly progressive, and the
pace much increas d.
Horses with high-striding action behind some Horses with high-st riding action behind some-
times allow their hind limbs 10 dwell momentarily in a state of extrewe foxion. This, however, is of a temporary character. "uickly passes a way as
the animal cools down and set tes into his natural
stride. Not the least indurtant pint stride. Not the least important point to be con-
sidered in this gait is the manner in which the feet are brought into contact with the gromet.
In some horses. for various reasons. the body fall. upon the limbs with great force. and the sound emitted by the feet is strikingly loud. while in
other animals it is hardly noticeable. In these other animals it is haraly noticeable. In these
horses the touch of the feet upon the soil is light and airs, and in contrast with others there is
aidtle loss of time in the movement. Horses with little loss of time in the movement. Horses with
loaded upright shoulders are numongst those of the loaded upright shoulders are amongst those of the
class roferred to. and others in which the axes of
the limbs are faulty. the boty sways from side to side. and the fiet are made to hit the ground with
unnatural forse- -Prof. Wortley We. in Finglish

HORSE CLASSES AT FAIRS.
The classification of horses at the annual ex hilvitions frequently furnishes a topic ior consider able criticism. Where is there a place for sel eral sections making up what is called the genera purpose class? Even at some shows it is impossible to discern at a glance whether the string brought before not. In some instassed as specimens are nothing but light instances mact that no definito description of the class seems possible is the strongest backing in behalf of having it eliminated from the prize lists, or at least so cut down that the funds of the society would not be paid to such an extent as an encouragement to the rearing of a mongrel harse.
Horse judges of repute do not hesitate to give their opinions in no uncertain words. W. F. Kydd, of simcoe, who has known Clydesaales of high quality in Scatland since he was big enough o know what a repely in horse-rings in all made the awards aiter attending eight of Ontario she fairs this fall discussed the uestion with a representative of "'The Farmer's Advocate" recently. "In connection with the horse exhibits at our fall fairs," said Mr. Kyds, I would like to see the generat-purpose class dropped from the prize list, with the exception of one section for team and another for single horse. There is no special place tor the general-purpose horse to fill. He is not particularly useful any place, except on the farm. What is he but a mongrel-bred animains for young men to breed such horses? Can it be called educational? It is pointed out that the general-purpose horse is one that can plow and haul a heavy load of grain
or hay, and also be suitable for driving in a buggy. What can fill the bill except an overgrown carriage horse? There are four standard classes that the market demands, viz: Draft, or agricultural, carriage, road and sadie. shese be encouraged to produce
" As to my reasons for giving prizes for team
and single horse: There frequently are some and single horse: There frequently are some high quality. They belong neither to the agricultural nor carriage classes. Reasonable prizes or such sfrecimens would not be out of place, but under no circumstances should premiums be given
that would encourage the rearing of such animals." "Some fairs, also," continued Mr. Kydd, have a strange classification for carriage horses basis of height, e. g.. carriage horses, 16 hands and over: roadsters, under 16 hands. With such svistem of classifying, a high actor of 15 hands 3 while a canital road horse o: 16 hands is put into

EXPORT DUTY ON BREEDING MARES SUGGESTED The imposition by Canada of an export duty Farmer's Advocate" by a prominent horse exhibitor, his idea being that we should discourage the export of broeding female stock, letting foreign purchasers take geldings if they want work animals. The imperative requirement of the horse-business in Canada, it is argued, is a large calculated to prevent decrense of legitimate means consited the supply being It cannot be said that there is any considerable export trade in mares going on at present find their way over to Scotland or across the International lloundary Line, and the trade is laable to be resumed at any time.
Against the proposal it might very well be Against the proposal it might very well be
urged that as the trade is small, legislative in-
ferference were scarcely worth while. The maintenance of unrestricted free trade in pure-bred breeding stock (excepting such quarantine and isease) has much to cominend it, as the freer the exchange of pure-bred breeding stock through-
out the world. the better it is for the progress of the breeds whose blood is so interchanged. While it is conceivalle that in special cases, as in the counding of a breed, the temporary restriction of export might prove advantageous to such breed,
as well as the country of its origin, still this as well as the country of its origin, still this
irgument would appear to be outweighed in the
maintenance on the part oi all comatim of itee nection it should be borne in mind that the adop-
tion of a policy of export duty on the part of other lands.
argument does not necessarily are concerned, this argument does not necessarily apply, seeing that
its principle is already violated by the maintenance of import duties by various countries. If the maintenance of import duties on such stock is justifiable to keep it out, there is certainly more to be said for tha imposition of an export
duty on breeding females to keep them in the country maintaining the duty,
On the other hand there are several anomalies
that would result from applying an export duty the first place, it would look, on the face of it, as though we valued our grades and mongrels above our registered mares. In the second place, such an export business, tend espeoially to discourag the export of the cheaper class of mares, as the duty could be more easily paid on a valuable than on a poor ane is a good deal to be said in there allowing matters to stand as they are. These few thoughts are thrown out without
attempting to exhaust the subject. If correattempting to exhaust the subject. If corre
spondents wish to take up the issue, space will be spondents wish to take up the issue, space
available to publish any well-considered views.

THE GENERAL-PURPOSE HORSE
While as a market proposition and a generally advantageous line of horse-breeding for the majordeservedly strong hold on public favor, it must be admitted that for farm work alone, leaving out the prospect of selling an occasional gelding at a fat price for city service, the general-purpose following remarks by a writer in Coleman's Rural World will find echo in the minds of many readers. Admitting that the increasing scale of agricultural implements is adapted to utilize heavier draft animals, there still remains a very calpurpose description on the everage farm, hough the wisdom of a delibarate attempt to breed such horses for a purely farm demand is uestionable, to say the least. The misfits and hit-and-miss products of miscellaneous lines of breeding may be depended upon to produce what we need of this class. When breeding for sale, breed for a special purpose ; that is to say, for a special market class.
Just what a general-purpose horse should be may be a question of controversy. Men may iffer greache eleven-fifty to twelve-fifty, with possibly a shade lighter ur heavier. While a chunk is not allowable, a leggy, rangy horse is also barred. The class is often ound to contain members somewhat on the roadis to produce an animal that can do a maximum amount of farm work, or go on the road to either drive or draw.
"For heavy work, or for driving, the , class cannot be said to equal the breeds that are bred
specially for those lines, but they come so near it under ordinary requirements that the difference is not noticed. Leastwise the general-purpose elimithe work of one, as to driving and drawing. "There are places for each class, but I think that the general-purpose horse is ore mary means. factory class for the farmer Ithey come handy here in the oil field where there is a great deal of teaming and but little farming, but I do not find them so satisfactory for general farming ase that the old-fashioned Morgan. I cannot see a material loss of time. I could plow about hal Con acre a day more with my mere is a greater dif fan with my percherons in any kind of light work that requires more speed than strength. " It is generally concaded and has more enpose horse is better muscled and has. I think
durance for his size than larger breeds. the argument is not altogether faulty. It always seemed to me that this class stays in work con-
dition better than most other breeds without be dition better than most other breeds without a horse of the general-purpose lacks weight, but you will find that what he has tough. stuff to make him strong and tough. "I give these remarks from my personal obser-
vations and experience. My observations have vations and expell as of horses. My experience
been of men as well has been in my own

## LIVE STOCK.

## OIL CAKE.

"What is it?" is a question which may occur name in connection with the feeding and finishing of stock for the show-ring or market.
A visit to the Dominion Linseed Oil Company's mills in Baden, Waterloo County, Ont., will tel who and prove most interesting to those from Ontario from Manitor ham countries, may be seen starting on its way throug different machines and presses until we see it diided into two products, viz,, raw linseed oil and jected to great pressure, to squeeze out the oil The residue, oil cake, is taken out of the presses in oblong cakes, some twelve inches wide by an inch in thickIn that shape they are, for the British markets, placed on end in strong sacks, side by side. The last ones are forced in tight by machinery so as to make the packages quite solid.
For the home trade, the large cakes into two grades. One is made fine, and is quoted as oil-cake meal. The other is coarse ground, and termed nutled cake The latter grade is the one preferred by the
majority of feeders. The finer meal, even if majority of feeders. The finer meal, even if
mixed with bran and grain, is apt to adhere to animals' nostrils, and especially so in the case of
sheep, which tends, probably, to some animals sheep, which tends,
Let us look into a few facts regarding its use and who are the larger users of cake. Canadians
use it sparingly, while the successful British use it sparingly, while the successful British
farmer, be he a breeder of pure-breds, or a feeder farmer, be he a breeder of pure-breds, or a feeder ent combinations.
In Britain there is an inducement held forth to the tenant farmer to use oil cake. An outgoing
tenant who feeds cake is allowed by official valuators, certain remuneration for that fed the years previous to the expiration of the lease: So much year before that, and still less for the third and last one listed. There it is recognized that cake
fed enriches the soil as no other feed will, it befed enriches the soil as no other feed will, it be
iner the only kind for which allowance is made to the tenant leaving, and the same is charged up to the incoming one, Illustrating the appreciation of it in Scotland, it is heard occasionally said,
of some unnrogressive farmer, "" Why, he don't know enough to feed ofl cake !
Will it hay to feed it in Canada, considering the lower nrices per ton of meals from our lomegrown grains, is the imnortant point for us to
get information about. When we read the analygis of cake, noting its richness in flesh-forming matarial. its value anrears, as $\Omega$ part uf the


Lansdowne (imp.) [8 50] (14228)
11) desdale stallion. Bay: foaled 1906. First in class and champion as best Clydesdale stallion any ageo Canadian National Exhibition, Toronto.
ypont.
Ont.
1908.
Sire $\quad \begin{gathered}\text { Imported and owned } \\ \text { Everlasting (11331) }\end{gathered}$
s little room for doubt as 10 its being cheaper
than oat chop at $\$ 26$, barley meal at $\$ 25$, or pea neal at $\$ 30$. Even were it no cheaper, there siems to le a
something in oil cake, as in turnips, which eveu an analysis does not reveal. It requires some
air and careful experimenting io fully convince an analysis does not reveal.
fair and careful experimenting
some as to the goodness of cake
It is not well in fattening cattle or lambs, to begin the use of it, or even of meal, during the
first weeks, or perhaps months, according to the time of indoor feeding. After meal has been given in smal quantities at first-two to three pounds daily, and gradually increased-oil cake
may be profitably added in the later months. It is well to go slow at the start; one pound daily, and increased weekly a pound, until three to four are daily fed, appears to give a touch in handling
which is pleasing to the expert dealer in fat stock.
For several years on Fairview Farm we have fed rape off in the months of September and OcChristmas market in early November, then getting them on full feed ol turnips, hay, meen and cake as soon as found safe. It has been found
very satisfactory to finish 1,400 -pound steers on 10 pounds meal and fully 4 pounds nutterd oil 10 pounds meal and the satisfaction obtained in dollars, but the experiments have proved beyond
doubt that fairly full-fleshed and well-bred cattle doubt that fairly full-fleshed and well-bred cattle
can be profitably carried to a higher finish by the use of highly-concentriated feed, as cake. Another fact worth remembering is that the markets are
ready to pay a profitable margin for the wellready to pay a profitable margin for the well-
finished bullock of the right kind. And another consideration is the superior killing quality of beef from the cake fed bullock. The cattle flisished as described have for three years past been slaughr
tered for a high-class Toronto trade. The dealers tered for a high-class Toronto trace. Tull satisfaction with the killing results, and also reported
their customers as being well pleased with the their customers as being well pleased with the
cuts furnished them. The fact that this senson's cuts furnished them. Already contracted for, beore the middle of October, by some dealers, is fairly good evi-
dence of how they have in past years been suiting dence of how they have in past years been suiting a good trade. Summing all up, the results in good protit in finishing high-priced, full-feshed bout werll-bred cattle, and using cake largely in so
doing; a well-satisiled stock dealer, and customdoing; a well-satisfied stock deaier, and more of ers are so pleased is is want more and more of
such meats. And it is that much of
the first cost of the cake is refunded in the en-
riching of the soil. So satisfied are we with the use of cake, that
and So satisfied are we with the use of cake, that
yearly we are increasing the use of it. This year we shall feed some six tons, at least.
It it a kind of feed that will be It is a kind of feed that will be more appreciated when a better class of cattle for the block
shall he bred. With good breeding. the feeding of even what mav at first appear as high-priced feed will be practiced freely instead of comnarative

yont. Ont. Sire Everlasting (11331).

## The Control of Bovine Tuberculosis.

Address by Dr. J. G. Rutherford, V.S., Dominion Ve sioner, before the Tuberculosis Congress,
held recently in Washington, D. C.] the official programme the subject assigned me is the "Control of Bovine Tuberculosis in Canada," originally sent in by me. I have but little to say on the control of bovine tuberculosis in Canada, inasmuch as while in some districts, under municipal and Pro-
vincial laws, efforts are being made to control the discase in dairy herds supplying various centers of population, very little is now being done by the Federa the Department of Agriculture, which is in my charge.
canada's policy conservative Although for some years, at a period prior to my
asuming office, a very considerable amount of testing with tuberculin upon the application of owners was carried on, no appreciable benefit was found to result the testing of cattle imported or exported for breeding purposes, those on the Fxperimental Farms, and a few other herds which have been placed by their owners
under the direct control of our offcers. We, however,
on the reatiest of owners of cattle who desing then on the requibst of owners of cattle who desire them
lested, supply, tuberculin free of charge to any repu-
Cable, qualified veterinary surgeon, on condition that Cable, qualined veterinary surgeon, on condition that
he will send to the Department the results of the tests purpose. cattle reacting to tuberculin in Canada, save
all cal those privately tested, are permanently earmarked, by
cutting a large $T$ out of the right ear. this apparent inertia is that, so far, no satisfactory intelligent method of dealing with bovine tuberculosis action, to await the results of the investigations now
being conducted by veterinary scientists in various
countries, in the hope that some better way of dealing countries, in the hope that some better way of dealing
with the problem may be discovered. Our knowledge of tuberculosis, the tuberculin test, incomplete, and undoubtedly is so to-day, and when we bear in mind the many legislative mistakes which,
owing to this lack of exact knowledge, have been made owing to this lack of exact knowledge, have been made
in the past, it must be admitted that caution is commendeble, and that, before taking any definito depart mental action involving the large interests which are at stake in such a country as Canada, it is reasona
that we should ." look before we leap., far as may be, against the possibility of having to re ceate,

UNWISDOM OF COMPULSORY TESTING AND
$\qquad$ aory testing and the slaughter of all reacting animals. At first sight, to men lacking practical experience, and
perhaps, devoid of responsibility, this policy may ap perhaps, devoid of responsibility, this policy may ap-
pear a very simple solution of, the problem. That it pear a very simple solutian, oft the problem.
is very far from being so, however, needs but little demonstration to an. gudifence
practical veterinary inpitarians, practical veterinary 想pitarians, dealing in large mat-
ters, are, even without taking into consideration the painful experience of those communities which in earlier days were rash enough to adopt it, well aware, not oni of the great difficulties to he encountered in carrying
out such a policy, but of the fact that under ordinary circumstances, in spite of the great economic waste involved, its results are by no means so satisfactory as
its advocates would like to have us believe. Most of its advocates would like to have us believe. Most of orinarians, many of whom should have known better, believed that if a herd of cattle were tested, the rectors destroyed and the premises disinfected, the disbe left to follow his own courses.
Intelligent men have, of course, understood from the beginning that there must be, in the very nature
of things, a period of latency or incubation between ane time of infection and that when an inlected anima
ould react to tuberculin. This period was fixed in 1899 and 1900 by contemporaneous hut entirely independent oxpene Royal Agricultural Society of England,
mittee of the
and by Drs. Nocard and Rossignol, under the auspices the Societie de Medecin Veterinaire Pratique of
The results in both cases were practically the rance. The results in both cases were practically the same, and showed the period of incubation, wo infec-
pending somewhat upon the mode and degree of
tion, to range from eight to fifty days. This fact fion, to range from eight to firty days. This vitilly as it dres both the original herd and any additions or replacements which may be made, orking out of a policy of compulsory te
slaughter, even with liberal compensation. onjunction with the vagaries of tuberculin, especially second, third and fourth tests in the same herds
and the numerous ingenious methods adopted by own
the test, it is sufficient to exclude from the beld of
practical action this method of dealing with tubercupractical action except,
losis,
in which all. in small and circumscribed communities
or at least a majority of the owners, ar in which all, or at least a majorry of tuberculosis, and
alive to the necessity of stamping out ne willing to co-operate heart.
in bringing aboui that result.
immtations of tuberculin as a diagnostic
This conclusion on my part has not been rashy arrived at. Ever since tuberculin was first used as tudying its action and during the whole of that period my opportunities for such study have been con-
siderably greater than fall to the lot of the average veterinarian
Let us go a little more into detail. A herd of, say, one hundrod cattle, kept under ordinactors are ound. These twenty-five animals, together with any which, owing to the disease being in an advanced linical examination, are slaughtered and the premises carefully disinfected. It is not so very long, as I have already said, since many veterinarians were teaching that such a herd was safe and sound, and ted any animals added were carefully tested before bing brought into contact, no further danger need be apprehended. This is. of course, very far from being
the case. In the first place, a retest after three months will, depending to some extent on the virulence -and the sanitary conditions, reveal, perhaps, from five o ten new reactors. Even after these have beon de-
 the number, have been living in close contact with the
remaining sixty-dive, and it is quite likely that three remaining sixty-que, and it is quite likely that three
months later several of the latter will be found to be months later several of the atter wiay the uncertainty
affected. Here also comes into play terculin in repeated tests, a most serious conof tubercul.
sideration. and valuable discovery, which I may say does not by
any means apply in all cases, it is quite within the bounds of possibility that a number of animals, affected to a greater or less degret, will rail to react
when tested for the third or fourth time. This ach whined tolerance to tuberculin is one of its most serious limitations, and constitutes another difficulty somewhat hard to overcome. Let us admit, however, thai after the lapse of a longer or shorter period a
number of carefully-conducted rotests the survivors
the original herd are properly pronounced sealthy the original herd are properly pronounced healthy.
We must now take into consideration the ques We must now take into consideration the frome business standpoint, is in the majority of instances of paramount importance to the owner. It is not enough
to have the new animals tested before bringing them onto the premises. The same limitations, viz,, that
of the incubative period, applies to such tests as to of the incubative period, applies to such tests as
thuse with which we have peen dealing. New arrivals
must be isolated, not only from the original herd, but must be isolated, not only from the original herd, but
from each other, nnd submitted to a retest at the expiry of at least three months before being allowed to come in contact with any other cattle.
Two further points here demand our attention. We have hitherto, presumably, been speaking of tests hon-
estly applied to the cattle of an honest owner, and by estly applied to the cattle of an honest owner, and by
a capable, intelligent and experienced veterinarian. We a capable, intelligent and experienced veterinarian. We employed by dishonest and unprincipted owners to nul lify the test and so defeat the end in view.
The old method of dosing beforehand with tuberculin, although still followed in many herds, has largely lost its value through the discovery of Professor Valle,
above referred to, and is now; as a rule, only c nloyed above referred to, and is now, as a rule, only c moyed
when the testing veterinarian is agreably complacent, When the testing veterinarian is agreeably complacent,
or a few years behind his age. It has, among the more astute breeders and dealers, been largely super-
seded hy the practice of administering one or other of the modern antipyretics, combined for the sake of safety
with other drugs, to such animals as are known to with other drugs, to such animals as are known to
he tuberculous, or which show any rise of temperatur
when undercoinc the tnat when undercoing the test. This plan is beautiful in
its simplicity. Temperatures are guietly taken from its simplicity. Temperatures are quietly taken from
hnlf an hour to an hour before the veterinarian makes hnlf an hour to an hour hefore the veterinarian makes
his rounds. nd the fehrifoge. mixed with a little suarar
and disenised in a handful or two of meal), is licked un by the nnimal without fuss or trouble. There i
no drenching, no handlina, no exitement; the temper
ature drons, nnd nlthouch there mnv be and often thermn irregularity there is no distinct rise. and
anove all. mo tulerculin norch. This brines us to ne serond of me two furthe
moints. viz. the veterimarinn mnking the that. Whild dia nostic pronertios of tuherculin. T must confess to
$\qquad$
$\qquad$


ween temperatures, so as to permit of their cattle fely manipulated, but time will not permit. One
One that in the overwhelming majority of cases we have, in addition to the temperature rise, a dises which
reaction, some of the most salient features of reaction, some of the most satieat ${ }^{\text {may }}$ be, and often are, only temporary, while others may be, and orten arsist until at least twenty-four hours after injection. Among the temporary signs which may be noticed, as a rule, from six
severe oases, rigors, often accompanied by staring coat,
In less general excitation and frequently diarrhea. In less well-marked cases we have coldness over the quarters, thighs and tail, sub-acute excitation ave passed
Even when these symptoms have eral malaise. Even when a standing posture, and is more or less stiffened; there is loss of appetite, rumination is suspended, and in wis diminished Close attention to and observation of the animals undergoing the test are, in my opinion, indispensable. Even with them it is possible for mistakes to be made;
and without them the tuberculd recollect that, prior to the discovery of tuberculin, much attention was paid, both by teachers and prac losis. Of late years this phase of practice has been almost entirely lost sight of, the younger men practically depending on tuberculin as a diaghostic. This y cultivating with regard to cases of tuberculosis that habit of painstuking observation which alone makes for success in the diagnosis of most of
ECONOMIC WASTE OF COMPULSORY SLAUGHTER I might, perhaps. explain that the foregoing re
marks on the ing tests are intended to emphasize the idea that only ing tests are intended to emphasize the idea that only
skillful and specially-trained men can with safety be employed in this work, no small diffculty in itself, when it comes 'to undertaking a universal and com-
pulsory testing policy. There is still more to be said against compulsory testing and slaughter. Many re-
actors are but slightly affected, and while, in the case of beef. cattle in good condition, the loss from their matter when valuable pure-bred herds, or even common grade stock, thim in fesh, are condemned. It is true that with the latter the question of compensation may
be more easily settled than with the former, but the matter of economic waste is only one of degree, for while the pure-bred reactors might live out their nat ural lives and produce much valuable, and, with proper precautions, healthy stock, the thin grades might bo purposes of human food. For the reasons given above. am convinced that, at least on any large scale, the
practicable one

QUEStion of voluntary testing,
Turning to the policy of voluntary testing, or test-
in response to applications from owners, now folng in response to applications from owners, now fol-
wed in certain of the United States and in several of he countries of Europe, I would point that not only most of the arguments against compulsory testing pply to it with equal force, hut several other factor most important is the fact that in testing only those herds in a country which are voluntarily submitted to he authorities. the progress made in the direction of radicating tuberculosis must, of necessity, be not only
very slow, but very uncertain. Even Professor Bang very slow, but very uncertain. Even Proiessor bang often disappointing tests, the patience and courage. of Danish friends not unfrequently fail, and hel
come weary of well duing and relapse into carelessness. This phase of the matter is one which must be taken into account, and when with it is considered the fact that the last to ask for the test are, as a rule, the Cipal agents in disseminating disease, the ultimate in-
ffectivenose mectiveness of voluntary testing is pretty clearly
inmonstrated. Owners must obtain fresh blood from hme to time, and unless a man is heart and soul with
the nuthorities in their efforts to clean up his herd, and takes every possihle and minute precaution accord-

In this connection, I have read with much interest
he plan proposed by Dr. Nivan, Medical he plan proposed hy Dr. Nivan, Medical Health Offcer
of Manchester. nnd supported by Professor Delepine and Mr. Brittlebank, the Chief Veterinary Officer of that
city, which includes the forming of disease-free inlands rity. which includes the forming of disease-free inlands
by eradicating tuberculosis from certain farms, and or eradicating tuberculosis from certain farms, and
gradually extending the work over small districts, to
he still further enlareed as the system finds favor with he still further enlarked ns the system finds favor with
stock-owners.
While there schrme. such as the spending of public money in speMayers. And the supplying of sanitnry buildings, through Phyers. and the supplying of sanitnry huildings, through
hiringing pressure to hear on landlords, or otherwise,
Which are surcely andicale

OIL CAKE A GREAT FEED AND FERTILIZER． Editor＂The Farmer＇s Advocate＂
Replying to the questions submitted to me， incidentally let me remark that most of my ex perience was gained on a farm occupied by my
father in England．He was one of the best farm－ father in England．He was one of the best farm－ ers I ever mer
Hugh Aylmer
Let me again remark he had a great grazing farm in the Trent Valley；some of that land would These cattle，when first on pasture，had no arti－ ficial food．After the scouring ceased（to which all cattle are subject when first on grass），and when they were getting＂greasy，＂as the butchers said，they then harticle was used，as the boxes． of lint and husks caused impaction and often death．But when in stable，linseed－oil cake was used for stall feeding．As much as seven pounds a day was not thought extravagant．With my
limited experience in Canada，I am convinced my good father was right for several reasons，amongst others the question of keeping up the fertility o the soil．
first question is partially answered by the foregoing portion of my letter．I would give cornstalks for a while，then finish with oil cake， corn and clover hay，or lucerne（alfalfa），cut up．
sheep need no grains outsido good pasture and lucern，except for show－and that is another story．
Swine fill their bellies so that they can＇t raise grunt，and if they are doing well nothing comes The dairy cow is a proposition by herself． her best，a hothouse plant，where gluten meal and all condiments find early．Ion＇t know that it would be out of place to mention here what I once did to win a prize at
New York State Fair，held at Buffalo about 1866 New York State Fair，held at Buffalo about 1866
or
1867．Old Ayrshire Lass（imp．），thirteen years old，was prepared to win－calved right to
date－fed as we thought best，and then fed her own milk．She gave over 80 pounds a day while nder tesi for forl she looked around for it， When one pain was one ready．She was a grand cow，but I oft wondered whether I did not help
her to win． Without any hesitation I am positive that no other purchased food can compare with linseed cake as a supplementary purchased feed for steers． It not only leaves a profit from feeding to the
animal，but leaves almost as big a dividend to animal，b
My only hope for Canada is that after having My only hope for Canada is that arter having have an export duty．What we want on the
farm is the refuse of our wheat crop，we want the bran and offal－call it what you may．Let those who want the flour（none better）have，it， but the farm requires some recognition．We want the best advantage．Europe must have it，and will have to pay for it even higher than now． The United States requires The hard－wheat groundinent．But what a crime to export wheat，when we can mill it at home and save the offal for the farm，and give employ－ ment to many hands，mill operatives，coop or in－ terested therein． Middlesex Co．，ont
mested therein．

SILAGE AND CHAFF ARE ECONOMICAL ROUGHAGE．
$\qquad$

$$
\begin{aligned}
& \text { r's Advooate": } \\
& \text { your questions concerning the }
\end{aligned}
$$

Editor＂The Farmer sor questions concerning the In feeding beef cattle our ration consists of about three－quarters of a two－bus equal proportions，and chaff and silage，mixed in equal proportions，daily．
about two pounds of meal，three times dit The meal ration is increased about one－gair a
pound towards the last．Besides this，they get
俍 （）two feeds of hay．Chaff and silage，mixed in for the economizing of meal． Any man going into beef cattle or dairy cat－ tle，would be foolish not to have mix with it． I find that chaff is very，which we employ，could
Probably this system， be improved upon a great deal，but seroat． gives very good satisfaction
Halton Co．，Ont．

When a fairly well－bred grade Shorthorn steer． raised on skim milk，after having receive a
start on whole milk，fails to attain a weight of start on whole mith hundred pounds at twelve
at least seven or eight hun months of age，there is something wros．
feeding and treatment he has received．

SILAGE，STRAM CLOVER，AND THREE POUNDS IMEAL．

Replying too your enquiry re economizing the heal ration in bieeding of cattle，I am more than profitable nesmultus．whe moust rely upon a ration the basis of whicth is coorm silage，mixed with the straw from our graim coropfs（cut），along with a moder－
ate allowance off collover hay．There is nothing will save the gerainins lifike the silage and clover hay For feeding mox beefl int I use this ration mixed with a mordientaty alllowance of our grains，mixed shorts），and an liotthe oil cake is also profitable． At presemit ppriceess of grain and mill feeds，I be－ lieve oill calkia ist the cheapest food we could buy to feed allonge with the grains． reat care sthombld be exercised not to feed too heavy a mation of meal．Careful experience is
continualluy chemponstrating the fact that a lavish continuallor dhemmonstrating the fact that a lavish silage each meday wayty with a little clover hay in addi tion．is stiomplly momey mo better than thrown in the fire


An Artist＇s Conception of a European Pastoral Scene
with an anvermge of certainly not more than come when farmers generally ehould fattom thei three peomedus of srain per day，I have brought own stock，at as earload aith stook．Breed the cattie thancula the winter and had them in prime Hurem Com，（Ont．many of them fit for export
THOS．McMILLAN．

## ROOTS，SILAGE AND ALFALFA

Biditor＂Whe Farmer＇s Advocate＂： Your emeations regarding the economy of the meal ratbiom arre most timely，not only for this year，bant that thre stockman should produce such crops ass willl provide for the sustenance of his feeds that will make the same results and main－ taerds．or thene sir sale in order
The reatiom wised here for beef cattle is a mix－ ture of sillayre，moots，straw and hay，mixed，without meal form dirs cows，with straw uncut after feed
ing．monnmine mand might．For milkers，clover and ing．monnione and might．For mulkers，clover and
alfalfan is used instead of straw；some oil cake meall inded as the weather grows colder． For swive slugar beets pulped and mixed with some time burforc feeding，makes a cheap and suc cessfult way of wintering hogs over three month old．youmener than that，ground oats and barley
with skim milk，is neediul．Older sows uill win－
ler well on roots，with a small grain ration in er well on roots，with a small grain ration in
the morning，but will not produce strong litters on moots alone． Corn silage is considered the greatest saver of neal in the cattle ration；alfalfa hay is also very To economize the meal ration we like a combi－ nation of one－half well－cobbed silage，one－quarter mixture of turnips and mangels，balance lucerne
（alfalfa）hay，well cured．The liberal salting of all feed，when mixing，is a great aid to digestion． In reply to question three would say，oil－cake
meal for cattle，low－grade flour mixed with barley meal for hogs． The outlook for the cattle－feeder is certainly
brighter than a year ago，better beef is the cry brighter than a year ago，better beef is the cry
of the consumer．If we aim to supply that，bet－ of the consumer．If we aim to supply thart．
ter prices go to compensate us for the effor

FARMERS SHOULD FATTEN THEIR OWN STOCK YOUNG．
Editor＂The Farmer＇s Advocate＂： In feeding beef cattle we prefer the two－meal system，dividing the
time equally night
and day，watering and day，watering
once a day，after they
clean up the morning once a day，after they
clean up the morning
meal．We get equal－ meal．We get equal－
ly as good results， and economize labor． The roughage used is half corn silage and
roots，half cut straw，
hay and chaff，＂mixed hay and chaff，＂mixed
thoroughly，two feeds at a time，and as we
lollow the tied sys－ tem，we place the meal on roughage in winter our meal ration
was composed of oats was composed of oats This rall－cake meal． This ration gave us
splendid results．We
fed as high as three fed as high as three
pounds per head per
day in the finishing period，and five lbs．
of oat chop，and that only for a very short great doal of meal has
been wasted in the great doalded in the
been wast too heavy
past by bio meal ration in start
of feeding period．
Starting light and
increasing vary increasing very grad
ually has given us best results．Las $t$
year we wintered our year we wintered our
young stock on
oughe roughage and alrails
hay，and were agree
ably surprised to hay，and were agree
ably surprised to find
that they were in that they were in better condition
spring than other
years when we had yearg when we had
fed three pounds oat fed three pounds oa
neeal per day．Suc
cess in cattlo－seedin cess in cattle－feeding
depends as much on
careful selection，care careful selection，care
and comfort of the and comfort of the
stock，as upon feed． best，feed them well，and you will find it a plea ant and profitable business． Waterlo Gavin barbour．
$\qquad$

A common mistake of feeders who have a supply of A common mistake of users is in feeding this almost
traw or corn fodder to use，is exclusively during the fall and early winter，saving the clover or allalfa hay until spring．While corn adad as chaff，or even straw，may be utilized to advantage as，
part of a ration，these are so very deficient in provein， part of a ration，these are so very decents，that they
i．e．，the bone－and muscle－making elements， require a supplementary feed to produce satisfactory results．Clover or alfalfa hay contains a super－－
abundance of protein，and it is much better to use abundance of protein，and it is much better than to
some of it，alung with the fodder or straw，than alfalfa some of ese up first and then feed the clover or alfalfa alone．In case the hay cannot be got at，or is not
on hand，a few pounds of bran，or，say，two pounde on hand，a few pounds of bran，or，say，
of hran and a pound of oil cake，are admirably adapted of hran and a pound of or
to supply the protein which the straw or corn fodder

It is more economical to keep stock in good con－

## THE FARM.

## alfalfa from chemist's standpoint

 With the increasing popularity of alfalla as a fodde crop comes an increasing desire to know ant about thi plant, which already has done much for agriculture and which promises to become a most prominent factor in improving soil, as well as ini asirab meoting at Fort Atkinson, Wisconsin, Prof. E. B. Hart in discussing the chemical value of altalfa, gave figures that place this crop very high in the list of thos commonly used in feeding stock. Denling with economic values the Professor, touching on useful and non-wseful or digestible and non-digestible constituents, showe that proteids in particular were necessary for life, Io the building up of the animal, for flesh-lorming, and for taking part in all living processes of the anima body. It is a characteristic that most farm crops an low in this material, so low that when fed alone theydo not produce normal development, pecessitating so often the purchase of large quantities of concentrated materials-such as oil meals and wheat bran-as sup-
plamenty plementary feeding materials, There is no trouble on
the farm of making plenty of starch, sugar, fat and crude
protein
" When a farmer asks of the plant what does it do Tor me. is it making me an abundance of food mato
rial ${ }^{2}$, says Protesor Hart, .Whe is asting that plant a proper question, but it is only by a proper selection of cortain types of plants, whose power to produce protein is a large one, that he has at his command
the power of increasing the protein production on his tarm.

Fllowing are the food values of several ondina | farm |
| :--- |
| ucte |

|  | $\begin{gathered} \text { per acre } \\ \text { Lbs. } \end{gathered}$ | matter. Lbs. | matter. protein. |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Lbs. |
| Altalifa | 34,100 | 8.000 | 5,280 | ${ }^{875}$ |
| Corn | 30,000 | 7.500 | 5,025 | ${ }_{491}^{360}$ |
| Red Clover | 000 | 5,200 | ${ }_{\text {3, }}^{3,200}$ | ${ }_{350}^{491}$ |
| Oats and Pe |  |  | 2,521 | ${ }_{228}^{350}$ |
| thy | 10,000 31,700 | ${ }_{8,400}^{3,500}$ | ${ }_{3}^{2,000}$ | ${ }_{278}^{228}$ |
| Mangels |  | 3,5 | 2,750 |  |
|  |  |  |  |  | - Although in several cases the total digestible dry mator may be neariv alike, the allalifa ranks highest protin. Even with red colover. which belonss to the moat and andy as that onsequently the amount of protein per acre that will be produced is not so large. Can you

underatand then, why we emphasize the growing of understand then, why we emphasize the growing of
some alfalla ? When we follow the table furcher we some alfalia? When we follow the table further wer
find that sugar beots. mangels and rutabagas, under avorable conditions, often yield as much digestible dry matrer as alfalfa or corn per acre, but with a. com-
paratively low content of digestible protein.
There is paratively low content of digestible protein. There is
Lothing in the forage line that equals alfalla in this nothing
respect.'
It was claimed that five tons of well-cured allealfa
hay contained about the same aunount of protein as as orty tons of timothy hay, and also about the sameo as our and a half tons of bran. When it is considgered
ouat bran runs from $\$ 20$ to $\$ 25$ per ton, the value ot alfalfa looms larpe.
farmers spend as hich isho snid the speaker. whent bran every venr. This is a conservative esti-
mate, and the frat that youl buy whent bran and other oncentrates, like cottonseed meal and linseed me
igh place alfalfa should take ammeng the feeding mate rial. . grown on the tarm. have emphasized the great productive power of
 prairie hay, what w
ther feeds?
On suc

## Fedsurn

Alfalfa Hay (averuge
Timothy Hay
Corn Fodder
alfalfa Hay, containing $129 \%$ digestible
Wheat ${ }^{\text {protein }}$
cutting and cuiring alfale
Others have told you all about cutting and curin this \&reat crop, put onure that should be followed in
reasons tor the procdure
the cutting of alfalla. It rests on a chemical basis.

 content is high, sugat ho fiber, the material thit
high, and the indigstibl tood
is of little use to the animal, is relatively low. "As the plant grows older, this cruas uber and starch, untim you have, approxinately,, 550 pounds
per acre of this indigestible material, while if you had per acre of this indigestible material, whout of of fiber
cut it back at the proper timo the amount would have been materially smaller. So this is tho
point 1 want to emphasize to you, that there is a chemical reason, and a very good one, for cutting your alfalfa in the early stages of bloom. When one-tenth in bloom, it contains 18.5 per cent. of protein, when
one-hall in thoom 17.5 while in full bloom its content of protein is 14.4.
"Another interesting feature about this allalla plant is the relation of the stem part to the leaf part. The comparative relation of feal to stom is graatest in for example, for 100 parts by weight of stem there is 73 parts by weight of leaves. In the late stages for
every 100 parts hy weight of stem there is approximately 49 parts by wiight of leares, and the leaves
are the best part of the plant. It is in the early stage of the plant's growth that your cow or your pig
 the plant keeps growing its stem parts are increasing
in
ingreater proportion than is ito
ind in groater proprotion than is the incrase in the pro-
content, and in the early bistory of the plant the prent portion of stem to leal is less than it is in the later
history of the plant. The reason I emphasize this is that the leat is the most nutritive part of the plant and contains a large portion of the protein. stem, in an equal weight of leaves you will find 250 parts of protein. The very useful nutritive constitu-
ents, such as starch, sugar and fats, are likewiso in higher proportion in the leaves than in the stems.
 stem, an equal weight of leaves will contain but about
28 parts of fiber.
This shows that on a chemical 28 parts of fiber. This shaws that on a chemical
besis the cuting of the altalla at the stage when it is
 proportion of lear is greateat to the stem-a fact neve.
to be lost sight of, because of the high nutritive value to be lost
of the leat The use of the cap in curing alfalfa hay also was
advised by Professor Hart. "This point," ho urged advised by Professor Hart. "This point," he urged
." rests upon a chemical basis." When you grow suga beets and harvest them and lake them to the factory they are ground, placed in water, macerated, and the
sugar dissolved out. The ungar has simply been taken
and into solution by the water. This is also true of othe
plant tissues. There is not a plant grown that dooe plan tissues. There is not a plant grown that dor
not sufer some doterioration by watesoaking. Thy
more eesily soluble, and, often, consequently, the most more easily soluble, and, often, consequently, the mos,
useful materials dissolve in the water and run away and the more wate the greater the proportion tha
and
disolves out. So in making alfalt dissolves out. So in making alfalfa hay, it should al
way: be urged that, after all the dififculty of gottin Ways be urged that, after all the diffculty of gottun
the crop to the stage of cutting, the greatest carm should be exercised in proper curing. It is a waste time and money not to do this. Below are some figures that actually show what will happen to alfalfa unde the action of rain


- " This table shows how the hay was damaged and
the losses it sustained. It shows that the hay that
was damaged has practically lost in such thing as
We dat the sumargeand starch ctree things that eansiy pass into
solution, and that the protein content has been very solution, and that the protein content has been very
materially redured nly he exposure. Under the best
conditions of hunding your croo, you will probobaly conditions of hundling your crop, you will probably
lose one-fith of its weight by loss of leaves, so that youe have afveton crop, you will probably lose one
ton, which is leto on the ore of soil Care then in
ton ment


## Enviching: the soll.


deeper soil nearer to the surface also was discussed.
In this remerd he Profesur said
in
1 have not any data at hand to show exactly


 nitropen, phosphoric aciid and pot onsh This class of
plants, to which the ulfulfa belongs. has the power of
 nitrogen in the soil. As a matter of fact. it leaves ". Here is $n$ table show ine what n mombleo of the
Atter two years
Atter four years ..... 708
742
742fter four years

The soil content at the beginning of the exper ment contained 533 pounds of nitrogen per acre. Atter growing this crop for five years, and then subjecting
the soil to another unnalysis, it was found that it had actually increased the content of the nitrogen by some ${ }_{300}$ pounds per acre. In this same class, farmers, lies alfalfa, with its power of enricis ${ }^{\text {nilrogen. Another point is that by its long root system it }}$ teeds deoply and seacures its food from the lower soil)
areas. Consequenty, when the leaves and debris troil areas. Consequently, when the leaves and debris from
this plant accumulate on the surface of the soil, you are really accumulating material that has been brought aro realy acolth. The debris contains a certain
from lower depths. amount of potash, phosphoric acid and nitrogen, which act in a measurs an alto sond it wheut, oats, potatoes, or corn. you generally have increased growth, due in part to having increased the upper layers of a soil wit By this accumalation near the surface, such subnese es potash and phosphoric acid are brought lrom the deeper layers and enrich the upper layers of the crops that follow. But 1 do not want you to believe the cropssthat form. hegume, is a panacea for the that alatian, or al soil fertiity. Allalfo obtains part
rostoration ol all of its nutrition from the soil, white a part or it dors
 question but what we can save ourselves the expensive Bills incurred by the purchase of high--grade, nitrogenour cid in this plant. as well as lime and other necessary lements for the plant's growth, has been the soil. "Following are the important points I wish . 1 .-Alralfa produces large amounts of protein and saves expense bills for concentrated feeding materials. stage of growth, when it is just coming into bloom. stage os. Its proportion of leaves to stems is also
greater at that time, and, consequently, enhances its
 dollars' worth per year per acce in nit itrogen, and torings potash and phosphoric acid nearer the surface. "6.-It removes phosphoric acid, potash, and other
assential plant elements trom the soil, and tor mainossential plant elements trom the soil tha for main-
taining permanent fertility in the soil these must either tee returned in the well-preserved manure, or suppliod noxious weeds on the quebec highways. 1 would like to bring to your attention an imortant matter relating to our parish, in regard to our public highway, al matters exist at present. Each
year the weeds are allowed to fourish as they will, and no one sems to make any effort to abot this nuisance. 1 and one of my neighbors made an offer to our local
tollkeperer to clean up the roadway of all weeds, which meant $1 \ddagger$ miles in length, opposite our respective tarms, fut we were both told the contract had been let to another party, who had undertaken the whole rond,
put, as a matter of fact, the road was not touched, sut, as a matter or lact, the road was not couched
and the weeds were left to fourish as they would, and they are very bad, principally blue chickory and thistles. is there not an act regarding the cutting of all weods
on public highways, as well as railroads?
It time something was done in this matter, and I would like your adice on the matter, as $I$ feel it is an in
ustic the parish in which we live. What is the use of keeoing salaried men in Government service to tell us how to abate the weed nuisance if they are allowed to
fourisit bourishod on our highways and poison the whole neigh
WM. LENEX.
Anx - T have not to hand English translation of the
law of the Province of Quebec respecting the suppres
 weds, such as daisies. thistles, wild lettuce, chicory,
 between June 20th and July 1 INth, each year, by those
who have charge of taking care of the reand, The ways and means of building and caring for pub-
lic roads in the Province of Quebee vary considerably in the dirierent districts and municipalities, consider
able lat able latitude having been given br the Province to the
municipalitios in respect to methods that may bo adopted hy them Where the road is cared for by persons under contract from the municipality, it would
seem to be the duty of the municipal governing body to provide in the contract for the destruction of the nowious weeds as directed in the Provincial Act, and
to son to it that the contract in that respect has been

roads would, in some
bec, as well as in be the exception rather so long as the farming population consent in to havin,
their own affairs aboun their own affairs about noxious weeds hadly governed,
will noxious weeds continue to flourish on roadsides, in waste
bors.

## STORING SEED CORN

Seed corn should be stored in a dry place, and air between the ears. A chamber containing any considerable quantity should be ventilated. Until
fairly dry the corn should not be exposed to hard
3 frost, and it is safer not to undertake to dry it
out rapidly by artificial heat. A good way to store a small quantity is to tie the husks together and throw the ears in pairs over a fence
wire or wire clothes-line, suspended between two posts or from joists. This will, ordinarily, afford pretty good protection from rats and mice, unless
the corn hangs close to the joists overhead, in which case the rodents migh
and do more or less damage.

## THE-DAIRY

SILAGE, ROOTS, AND CLOVER HAY.
Editor "The Farmer's Advocate":
In reply to your questions with regard to systen of winter-feeding cattle, in the first place, I do not
depend on buying a lot of feed. There are times when feed does not feel it in the same way if selling prices go down. Howaver, I would rather buy grain than sell it, as we calculate to feed everything we grow. Of
course our farms in EAma Township are run very large ly for dairying, though we have been in the habit raising quite a lot of young stock, and we feed sell them when they are about two and one-half years old. We sim to sell them about May, and they should weigh about ten hundred pounds. Of course, to raise
these we have been crossing our dairy cows with these we have been crossing our dairy cows with
Shorthoru bulls, and the feeling in this neighborhood is to go entirely into the milking breed of cattle. Refore leaving this part of the subjeot, I might tell
you how we raise the calves. We always raise some you how we raise the calves. We always raise some
of them fed with new milk, for, say, three weeks, and of them fed with new milk, for, say, hiree weeks, and
then fed on skim milk, with a little oats, clover hay,
etc., but we have been in the habit for some time etc., but we have been in the habit for some time of
keeping several cows for nursing calves, and I tell you it is the right way to raise calves. II know it
claimed to be expensive, but we are in the habit raising three and four calves on each cow-that is, mean, to raise good large fellows, able to shift on the
grass for themselves. grass for themselves.
We have grown about seven or eight acres of Flint corn for ensilage on each hundred acres. Wo and
grow about four acres of Yellow Intermediate mangels. We intend to feed about an acre of mangels and one
acre of corn in fall. We grow as much good clover hay as possible. and do not depend very much on feeding straw of course, when the cows are dry in win-
ter ter we might feed some, but we aim to have plenty of
straw to hed everything well. Cows milking in winter $\mathrm{str}_{\mathrm{aw}}$ to hed everything well. Cows milking il wint
require to be kept well bodded. We are also in the require to be kept well bodded. We hogs. Our rule is
habit of raising quite a lot of Keep two brood sows on each hundred acres - tha
means four litters each year, averaging from eight to means four litters each year, averaging from eight to
nine each litter. They get all the whey, alfalfa (cut) nine earch litter. They get all the whey, aliaila (cut)
and grain they want in summer, and skim milk, roots and grain in winter.
With recarad to vo
With regard to your question, what combination of
roughage do you find best to economize the meal raroughage do you find best to economize the meal ra-
tion. I do not know anything better than plenty of roots, ensilage and clover hay
rhere is another matter in connection with our There is another matter in connection with our
system of feeding. If one grows. say, eleven or twelve acres of rots then seding down the next spring, princl
well. and
pally to clover-handling the farm well otherwise- he pally to clover-handling the farm well otherwise-h
will find he can grow all the fred he needs, and his
FARMER.
land will met richer. land will get richer
(1) DISTRICT DAIRY MEETINGS IN EASTERN ONTARIO.
R. G. Murphy, Secretary of the Eastern Ontario
Dairymen's Asseciation, sends us a list of places and Tairymen's Asseciation, sends us a list of places and
dates of a series of speciul dairy meetins, which are
to be held under the auspices of the above association:
Peterboro', November 4th : Lindsay, Noveniber 5 th
Cath Peterboro', November 4th : Lindsay, Novenher 5th
Campellorond, November 6th: Perth, November 17th
Kemitville. November 18th: Vars, November 19th: Kampbetion, November 19th: Vars, November 19th:
Kenntville, Novemer
Vankleek Hill. November 20th: Lancaster, November


$\qquad$
ecember

run the machine at full capacity

We will winter our Ayrshire cattle with clover hay
corn silage, turnips, oat straw, bran and oil cake. There may be few minuor changes; for instance, we may
give crushed oats ta some of our cows which are in give crushed oats ta some of our cows which are in the
Record of Performance test, but, as a general rule, we
will give will give about 30 pounds of silage, 10 pounds of hay,
20 pounds of turnips 10 , 20 pounds of turnips, 10 pounds chopped oat straw or roughage, and about one pound of mixture, of
bran and $\frac{1}{5}$ oil cake, per iour pounds of milk.
The answer to your question, "At mpesent prices,
The answer to your question, "At present prices,
what do you consider the most profitable grains or what do you consider the most profitable grains or
wheals to purchase for the purpose of supplementing
marm-grown fodder arm-grown fodder and grains," depends upon the kind
of roughage one has at hand. The man who has silage from well-matured corn, and a great proportion of
timothy in his timothy in his hay, no doubt should look for a meal fat and carronydrates in his roughage ; and at present prices, I beliceve oil mea! can furnish a pound of digesi-
ble protein much cheapen than bran a ble protein much cheapen than bran, oats, or the other
grains.
The man who grains.
The man who has alfalfa hay or clover is not so
far ahead of his less fortunate neighbors as in years far ahead of his less fortunate neighbors as in years
past, for corn, usully the cheapest source of carbopast, for corn, usually the cheapest source of carbo-
hydrates and fat, is very high this year. hydrates and fat, is very high this year.
II prices of meats and grains continues to soar as
high as they have for a couple of years past, the only Salvation for the dairyman is to cull out the drones.
sate the only
and keen only his hect miller and keep only his best milkers. Most farmers are
afraid to pay 100.00 for a good dairy bull, out of well-known ancestry, but will keep on paying large
grain bills year in and year out to feed poor stock sired by a poor bull out of poor cows. This will have
to change, else most farmers will soon be out of husi-

WINTER FEEDING OF DAIRY COWS to be very high again this winter, but for the matter of that, it is likely to be high for all time to come, coarser consumption has overtaken production, and the oarser grains, such as corn, oats and barley, are being
used for food for human beings, espectally in the wey of breakfast foods. Formerly this was confined pretty much to oats, but now barley and corn are used ex-
tensively for human food, and feeders are offered quantities of mill by-products. While some of itea doubt, is all right, most of it is what we might call aduiterated. The refuse of oat mills, such as oat might be a filler to fill the bags for the miller., but it certainly would not be very nourishing for the stock, nor is there much nutriment for making milk, so that anyhody who wishes to supply his stock with a sum-
ciency of feed, must look elsewbere for a feed if he wants an econumical ration. If an animal is not worth feeding well, it is not
worth feeding at all, but to feed an animal well it does not necessarily mean one must feed the most exexpensive when in frown on the farm, such as corn silage and mangels.
" In time
proverh, "In time of peace prepare for war," is an old stock was away last spring. It may serve to emphasize this more fully now that the feed should be a
To feed economicalls the feeder should have silage
and mangels for dairy cows. This, with well-saved and mangels lor dairy cows. This, with well-saved
straw and a little hay, will make the basis of a very
economical and, suitable ration, and enormous tities of silage and roots can he grown to the acre, so that a man thereby can increase the production of his


Lessnessock Durward Lely (imp.) -24758-
Ayrshire bull, two years old. Second at Toronto, first and champion at London,
1908. Imported and owned by R. Hunter \& Sons, Waxville, Ont.
harvesting those erops
is a little hard on the

To conclude, I may say that once the stock is round. If you have a good machine, shove through it all the raw material that it can economically take care of. Don't let it run half the year duing only half the
work it can handle, for there are certain fixed charges work it can handle, for there are certain ixied charges

- for buildings, general expenses, etc.-which are always the same, if each of our cows produces only 3,000 lbs.
of milk a year instead or 6,000 . Fewer cows, and of milk a year instead or 6,000 . Fewer cows, and
better ones, is a good thing to remember always, but better ones, is a grod thing to remember always, bu
especially when feeds of all kinds are high--priced.
Quebec Co., Ont.

NO SICKLY SMELL ABOUT WHEY TANKS.
Editor "The Farmer's Advocate":
I am of opinion that the pasteurizing of whey is a
step in the right direction-not that 1 think its feed-
ing value is much improved, except that it can be fed ing value is much improved, except that it can be fed
to calves. but it certainly is of great advantage to the cans. They don't take one-half the time to wash
that they did before the whey was pasteurized; all the grease seems to leave the can when the whey is emplied out, so no doubt the cans will last longer, but
would not like to say for certain, as it will require more time to prove whether it is of any benefit to the cans, as they only coinmenced pasteurizing at our fac-
tory (Burgessville) last April. It also improves the favor of the whey : you don't notice that sickly, sour smell a around the whey tanks as used to be the case Before thin whey was heated
I think the scheme is nill right, if the price for heating it doesn't go too high. I rin't know exactiy
what it costs, but it is not very much. price now obtainable. For siderable grain at the
 per day, one certaing cannot but realize a profit, no matter how dear the feed. In fact. with the cow producing so heavily, it will be necessary to feed her
more grain and not such a buiky ration. Cows have large stomachs, and a fairly bulky ration is suitable to them, but when we come to milch cows, giving their
60 , 70 or 80 Hs. milk daily, we will at once realize that they should have their feed somewhat more concentrated; that is, if we are to give them more flood
than those of less production, we must have it in lese bulk, because it would be impossible for them to contain enough rough feed to keep up their heavy produc-
tion. and if they do not get enough feed in one way or another, of
duction either.
It certainly is a queer state of aflairs that farmors should be grumbling about the high price of grain. over the operations of a farm than this. Formerly, about all the grain was sold of the farm, and the money was realized that way, but now things are quite
different. In fact, many farmers do not sell of any grain, but make their money out of livestock prod ucts. This is better for the farm, as it sells of much
less fertility. However changed. Farmers need to do considerable think on how to grow the crop that will furnish the most economical bred. thowe crops that will amount of fodder per acreo and for this reason silage and mangels should be grown largely on the dairy farm.
OEXford Co., Ont.

WINTER FEEDING AS ECONOMICAL AS PAS TURE.
Editor "The Farmer's Advocate":
With the present prices of grain and the rather light crop of roots, combinined with the generally thin
condition of cattle, owing to poor pastures, there do not appear to be a very bright prospe
farmers producing beef the coming winter.
In this section of the country the crops of hay,
straw and roots are the lightest we have had in many straw and roots are the grain has yielded very well. The one
jears, but the
bil fodder crop we have is corn. Farmers who have big fodder crop we have is corn. Farmers who have
silos full of good silage feel themselves pretty safe, and are envied by some of their less fortunate neighbors. For some years back we have been gradually get-
ting rid of our beef breed of cattle, and going more into dairying, with the special dairy cow (Jerseys), as We found so much nore money in them. We raise
all our own cows, and our aim has not only been to
improve our herd, but to reduce the cost of producing improve our herd, but to reduce the cost of producing
butter-fat. Along this line I feel that we have met with a fair measure of success. In the first place. I
think the farmer should raise everything on his own farm that he feeds, if possible. Our dependence for cheap production has been placed upon corn silage,
roots, alfalfa and red clover hay without the addition of any meal. For two years past we have fed no meal or other concentrates, except for about ten days
or two weeks last spring, when our alfalfa hay ran or two weeks last spring, when our alfalfa hay ran
out, then we substituted ground oats, which did not increase the yield of milk. However, I would not say but that the feoding of some grain or oil meal with the alfalfa would be a good thing, though it would add in making the statement that our feeding last winter in the stable cost no more to produce a pound of average of, say, five and one-half months pasture, with supplementary feed added, and that in each case the cows are fresh and of equal productiveness.
we have found the same ration that we
cows for milk to be equally good for beef production. Advice as to what a farmer should purchase in the
way of meal or other concentrates will depend upon what he has at home for roughage, if it is corn silage
or dry cornstalks, I would advise purchasing those oeds that contain a high percentage of protein, such the oil or cottonseed meal, gluten meal or peas. On
the other hand, it the roughage consisted largely of clover hay, such grain as barley or corn would probsucculent food, such as silage or roots, shourd form part of the ration.

PIGS DID WELL ON PASTEURIZED WHEY.
Editor
Our experience as patrons of the Burgessiville factory in feeding pasteurized whey since April ist has
been very satisfactory, the cost is repaid by the greater
base in washing the cans. They are easier to weeh ouse in washing the cans. They are easier to waeh
than if they came home empty, there being no illacid in the whey than formerly. A great many do not know what it is costing. For instance, if a
patron is sending 366 lbs. $\%$ milk per day, the heating patron is sending 366 lbs . \$ milk per day, the heating
of his whey would cost less thin a eent per day. Our pigs nevor did so well on the whey and so small an
por
amount of grain. We bught thirteen, weighing 135 amount of grain. We bought thirteen, weighing 135
abs. each; fed them one bushel of chop per day, composed of wheat, oats and barley, in the whey for two
weeks. when they had made a gain of 22 los. each. The were running in the orchard (not in clover), but
a bit of grass here and there, where it had not been rooted up by
previously.
We gave the calves all they wishod. They did well on it. with no bad results.
The whey comes home warm and sweet, and in my opinion is worth much more. Our maker says he has not been trouncharge for pasteurizing the whey at our
season. The chat
factory is 45 c. per ton of cheese. We consider pas lactory is 45 c . per ton of chese. We consider pas tinued.
Note-This is gratifying testimony from an evi
Intly wideawake and observant patron. Apropos o dently wide-awake and observant patron. Apropos of
the remark re cost of heating the whey, it may be noted that the charge at this factory, 45 cents a ton scarcely afford
thing, 50 cents per
a maker can afford
A maker can afford to heat the whey for. At that.
conditions must be favorable, the whey tank must be conveniently situated. the boiler nust be of ample capacity (as it should be anyway
steam must be utilized.- Editor.]

RESULTS SATISFACTORY IN EVERY WAY
$\qquad$


was given an incrense of $\ddagger c$. per lb. at last annual an established orchard of low-headed trees, surfiuce
 meeting, which increase was
ing the whey. It pays to have the whey pasteurized, and I desire
Perth
Co..

## GARDEN 億 ORCHARD

A STRICTLY CO-OPERATIVE ASSOCIATION. In the fruit districts of Ontario elforts are being the products of the orchard and the vineyard will result in greatest profit to the producer. The Grimsby Co-operative Fruit-growers' Association has had re association." said Linus Woolverton, a prominent member of the organization. a few days ago, " differs from
others in others in that it handles no fruit other than that
grown by the eight members of which it is composed,
unless extra quantities are needed to fill a car. We unless extra quantities are ieeded to 611 a car. We
heve a central packing-house, and a manager and shipheve a central packing-house, and a manager and shat the grades are strictly kept. The head packer is an
expert. All sorts of fruit are handled, and everything is guaranteed to be true to name
hunded Erery week quotations are sent to about five
A ready in diflerent parts of the Province. A ready sale has been found for practically all the iruit grown by these eight members - a fruit-producing
area of about 500 acres. Other fruit-growers have expressed a desire to become members of our association, but it is impossible to increase the membership until we have greater accommodation for packing. The
packing-house is so arranged that each grower has a packing-house is so arranged that each grower A book is provided, wherein the receipts are entered in dupli cate. These are packed to stock under grades, and the
sales shove the gross returns. Ten per cent. of the sales show the gross returns. ren per
receipts is reserved to cover expenses, and
of the seasom the accounts straightened."
" Bartlett pears," continued Mr. Woolverton, "hav
been a tramendous crop. though slightly undersized
Home demand has not been brisk, but excellent results were derived by exporting to Great Britain. Arrange ments were made to ship in lots of one hundred or two hundred cases by express, on Tuesdays and Thursdays,
to be loaded in Montreal on Wednesdays
dind Fridays to be loaded in Montreal on Wednesdays and Fridays.
The returns were highly satisfactory, the iproit being double that from home sales. Naturally, the highest profit came from number one stock, as the charges ar
too high to ship low-grade fruit so far. too high to ship low-grade fruit so far.
" These shipments of pears in small lots were mad possible by the fact that charges on space on the boats were guaranteed by the Government. If this boon
were extended to refrigerator cars to make regular connections with ocean steamers it would be greatly
appreciated by fruit-growers. Many have small lots appreciated by fruit-growers. not be full. If the charges were guaranteed there $_{\text {would be few instances in which available space would }}^{\text {win }}$ not be taken, provided growers knew a car would be
ready, on a certain date, or on a certain day each

LOW HEADING OF PEACH TREES cultivation and handling of orchards in the Niagara Peninsula by the more progressive growers. Most
noticeable among recent changes is the practice of low
heading of peach trees, particularly in young orchards. heading of peach trees, particutarty in young orthar and
Some have even gone so far as to induce a lower and
sureading growth of the older plantations, hy rutin spreading growth of the older plantations, by cutting
off the entire tops in two seasons, and training the off the entire tops in tivo seasons, and growth.
new great progress in this regard already has been made by J. W. Smith, a prominent orchardist of Winona, and one of the most successful pench-growers in On-
tario. "Low-headed trees," said Mr. Smith to a member of "The Farmer's Advocate" stafi recently, "should
be started in the nursery. The head should be formed about eighteen inches from the ground. This is done by pinching off the top of the young tree at the de-
sired height to induce branching. When these branches of those that are well placed, and cutting them to
of the main point is to keep the growth so trimmed that the tree will be low
and spreading. "The chief reasun for ndopting the low-headed
system is the ereater ease with which the fruit can be harvested. Pickprs can handle three backets from the
ground to one from a ladder. It is easily possible to Another thenefit is that the sullight is allowed freer limbs are strong while others are weak, and the lower means a ripening of the lower limbs. strongy fonliage.
and even ripening of the fruit.

dimsby, said: "In days gone by peach-growers al勆 severely-some almost to the crotches. For a time the crees appear to be ruined. Perhaps they are dargage traggling growth, by cutting off half the large limbs one year and the balance the following season, trees are renewed, and give better results than befor
trimming. Early spring, before growth begins the most desirable time for this cutting, but it can be the most desirable time for this cutting, but it can
done late in autumn. The new wood bears well th second year, and the rigorous growth means fruit

## APIARY.

NATIONAL BEEKEEPERS' MEETING. A very full programme of the National Beekeeper
ociation was carried out October 13th to 15 th, Detroit, Mich. A session to which the citizens of Detroit were in vited, and to which there was a goodly
turn-out, was the first evening. At this meeting E. R. Root, Medina, Ohio. gave a demonstration of the handling of bees. Mr. Root removed his coat, vest,
Millar and necktie; put his trouser-leg bottoms inside of collar and necktie; put his trouser-leg bottoms inside of hollow log, and then entered a wire cage with somer. The cage contained a colony of bees. These
smoke he smoked in the usual manner, and then proceeded to
manipulate the hive. He not only removed from the anipulate the hive. He not only removed from the
ive the combs with adhering bees, but shook the bees from the combs into a pan, and then scooped the bees the pan. Mr. Root also shook bees upon his head. he pan. Mr. Root also shook bees upon his head, thought that the main object of a bee in, life was to ind someone to sting. Mr. Root explained that he was careful not to pinch a bee. Mr. Root also gave tank on the life history of the bee.

## BEEKEEPNG IN HAWAII.

$\qquad$ Washington, D. C.,. gave a lecture, with stereopticon iews, on "Beekeeping in Hawaii." Prof. Phillips had been sent theno by the Department of Agriculture,
Washington. He found that colonies yielded a large amount of honey per colony, and that a large number
of colonies could be kept in one apiary The sweet of colonies could be kept in one apiary. The sweet the bees gathered was, however, mosty an excretion
from an insect which worked upon the sugar-cane; the "leaf hopper." The opinion of some was that the bees worked on the troughs of molasses set out for cattle.
The "honey" was of about the same taste as molasses, but he never saw a bee working at the troughs, and, as a result of his investigations, he was quite satisfied hat the surplus the bees gathered was from the source The morning session opened with an address by President Geo. E. Hilton, Freemont, Mich. President Hilton spoke of the advancement the industry had made, and gave Canadians, in particular, credit for the
assistance they had been to the industry, and the help assistance they had been to the
they had been in conventions.This was followed by an address by Dr. G. F. White,
the Bureau of Apiculture, Washington, "The Bac- teria of Bee Diseases" being his subject. "The Bac-
Dr. White dealt with it in a masterly manner, stating that dis-
ease was a state of not rest, an abnormal condition. The predisposing causos varied-it might be age, sex,
race, heredity or preexisting diseases. race, heredity or preexisting diseases. Under exciting
causes we found food and micro-organisms. The diseases due to bacteria were to bees the most dangerous, among them being American and European foul brood. european foul brood.
The cause of European foul brood had not yet been foul brood. The disease attacked the as American
In the discussion which followed, J. L. Byers, one of the inspectors for Ontario, stated that foul brood
of the European kind was now in one section of OnDhis. Phillips stated that
this Furopean foul brood was first noticed in Nep States of the Union, and he felt that radical steps should be taken for its extermination Conditions
were developing so that only those carefully looking after their bees would be able to keep them, and that
there should be greater effort in the direction of wax Rroduction. F. Holterinann. Brantford. Ont. stated that
R. R. F. Holterimann. Brantfurd. Ont., stated that
from, what he had heard of Furnpean foul brood in
New York State. and also in the cmall area in Ontario, the Derpartment of Ayriculture for Ontario and the Devartment of Africulture for the Dominion,
tittering capped cells, nd are never capped
re pearly white and
 as the disease advances,
Host of the dead brood Most of the load brood
lacking the larvae at an with American foul brat Quite a discussion
oi keeping combs in
on diseased colonies. on diseased colonies. Grouted in, thur which had been John Newton, another inspector, said he thought
here had been too much leniency; it was better to render such combs.
N. E. France
N. E. France, General Manager of the National, and
as o Be o inspector for wisconsin, said we try to. save
lis much; these combs are only worth the wax they oo munch; these corm.
contain rem ier them.
$3{ }^{\mathrm{peO}}$ Those posted in public and private discussion ap-
teared to think that disease among bees was becoming feared prevalent, and that at wang bees was becoming
mare
same effect in beekeeping that mo ing to have the same effect in beekeeping that the San o Jose scale was
eeppectod to have among fruitmen - wipe out those
who did not watch continually. which means who did not watch continually, which means practi-
call all but those making beekeeping a business prop-

 stated:
stated. -Destroy the bees in colonies badly affected; in these the bees are old anyway, and valueless it many colonises are are isoosesed, sha ok ot on shake ant at at one
 colonies not shaken to hatch. After about three weeks
shake these e last colonies, and render ald old comb sayshake these last colonies, and werner that the bess
ing the wax, and being very cart ur
not rob on ans of the refuse left after rendering. It was pointed out that the general. and, some
thought, better practice was to shako the bees after thought, better practice was to shake the bees alter y
two days gond time. to make sure the new colony
did not go on with any germs transmitted from the other colony. the size of hive
Almost the entire afternoon of the second day was

 took a part. Morrison, who has travelled almost over the entire apicultural wordy, staved in impossible, then
ago such a discussion would have been in
 Le at all surprised
12-trame Langstroth
Mr. Chapman even wanted to give a portion of the
first surer for brood combs, and it developed that the
 cher. watched a queen through an observatory hive, and found
she could lay six eggs in a minute. Mr. Morrison stated that it was now beyond doubt,
in fact had been proven, that a queen could lay 6,000
 before all desiring to speak had been heard, showing
the intense interest in the subject by the apicultural world.
Mr. Holterimann declared that the small hive, with
. the limited area for brood rearing and storing honey.
had been the destruction of countless colonies of bees which had starved during the winter.
nice display of comb and extracted honey and A nice display of comb and extracted honey and
apicultural supplies was made, which was the center of interest between sessions.
The convention. which is international, embracing Canada, was very largely attended. there were in . Mr.
neighborhood of forty-five Canadians in attendance. Holterman, who has been on the programme tor tour
years running, invited the association to meet in ToYears running, invited Inventions were also received from
conto next year.
Buffalo, Minneapolis. and st. Louis.

## POULTRY

poultry - house ventilation.
P) Poultry experts and enthusiasts frequently have house and ideal ventilation systems, quatre fro re given that are the man who purposes building a new house. The average farmer. however, to
 a house or pen which he considers sufficient ion best he can approach the ideal system of ventilation th All who know anything about winter and summer,
necessity of fresh, pure air witt
 tagus
wants


at the floor, probably makes little difference.
Perhaps the slatted ceil exingt, with straw stress in the
ont
loft and an opening out of the latter on the
south side. with a couple of smaller openings be-
low, in the poultry piartuent is
Tow, in the poultry apartment, is one of the
simplest and most efficient. The straw allows
Simplest and most efficient. The straw and and
slow circulation of air, and also absorbs mois-
Ire. Some poultrymen who have the straw loft.
keep a large poultrymen, who have the straw except in severe cold or
windy weather. Others favor a combination of
straw loft and curtain front.
But there are good
poultry houses in which the ceiling already in too
low; so that the suggestion to have straw in the
loft would be out of the question. In very few
instances, however, would it be impossible to put
in boxed ventilator chutes-one in each end of the
house. By having these protrude two or three
feet above the roof, and reach almost to the floor
of liberal supply of fresh air throughout the year.
and avoid excessively low temperatures in the
and
winter mont
winter months. openings at the ceiling and
near the base of each chute can be equipped with
sliced boards, to be opened or closed, depending on
weather conditions. At times it might be advis-
able to have them partly closed, while, again, the
bottom ones may be closed, and only the others
left open. In severe weather, all can be closed
left open
to advantage.
Provided, again, it is not convenient to put in
ventilators, cotton-covered openings of a size de
pendent on the size of the building, and perhaps
pendent on the size of the building, and perhaps
on its location, are suitable. The cotton should
be on the south, southeast or east side, and the
space should be quite large, as the cotton becomes
covered with dust, and permits much less exchange
covered with dust, and permits much less excchngen
of air than one would anticipate. The location,
on
of course, as well as the construction of the build
ing, would have to be taken into consideration in
any ventilation system
any ventilation system
Something can be done before winter sets in
remedy defects that may exist in the poultry
to remedy defects that may exist in the poultry
house. Adopt some means whereby a diffusion of
air can be had without perceptible drafts. Foul
ir is injurious to poultry. A healthy hen is less
comfortable at a temperature of 80 or 85 degrees
than she is when the thermometer stands 12 or
15 degrees below freezing. Let in the fresh aid
ait
and keep the pens clean, and a vast difference will
be noted in the annual returns from the poultry

## BLACKHEAD IN TURKEYS.

Those who raise turkeys occasionally experience a severe setback because of the ravages of the dis Curtice, of the Rhode Island Experiment Station to learn the true nature of the disease, its means f transmission, and measures that may result in its prevention or control, led him to conctuat in the scum or blind intestine. In the former it is recognizable by discolorations often more or less incur, or even quite irregular in form, and cecum he disease is accompanied by great enlargement and the formation of large sores in the cecal wall. Or. Curtice's report says that, when the disease in the cecum is inithe, which is more or less pres en in other cases. in many of the older pouts the droppings will be liquid, and stained orange yellow, this is the most are blackened bloodclots in the droppings, indicating slight hemor-
chases.
The majority of young pouts die after a day or two of droopiness. Adults may droop longer and pass into chronic stages of the dis-
ease. Refusal to eat, and standing apart, conease. Refusal
statute late symptoms.
Te experiments indicate that the disease is not
transmitter thees transmitted through the egg, and dens. guineas,
evidence that pheasants, etc.) rarely die of the disease, they carry and distribute the disease. It was shown
that, by removing the turkey eggs three or four days before hatching, wiping alcohol, finishing the incubation in a machine, keeping the poult for a few weeks on a disisinel ted board floor, and place
inv the a locate
remote f om ordinary ing them in a locati. render disease prior to
fowl, the losses by beckead reaching maturity may be reduced from a mini-
 This shows that the turkey a possible, and, in from ordinary tendency of partially wild turkeys to roam and remain at a considerable distance from the farm buildings. it is possible that the sup-
posed benefit from introducing wild blood is thus
posed benefit from introducing wild blood is thus
partially explained, and that it is not atony due ${ }^{0}$ greater is immunity of the what turkeys cannot be raised successfully in coultinement; one reason
may be that they are often convinced with ordinary may be that they are often confined with ordinary
fowl which give them the disease organisms. Tow, which give then the disease organisich
More must be known about the ns which
this disease is transmitted before great progress in its practical control can be expected. drying, dry, sandy soils would seem to be preferdrying, dry, sandy sons would sech clear that eur-
able for turkey-eraring, and it it
keys should be reared, away from the house, and keys should be reared away from the house. and
bee kept from all fields where ordinary fowl are be kept from al.
likely to forage.
Older turkeys. apparently resist the disease better than very sung, but , no bred of turkeys
thus far tested is immune to the blackhead disthus far tested is immune to the blackhead dis-
ease, for all of them, at all ages, so far as tried, have died of it." The destructive character of this disease, and
and ease with which it may. be distributed, auggets that great care should be exercised not po

## THE FARM BULLETIN.

## PROFIT FROM MANAGEMENT.

 farmers and their sons regarding operations and moth-
ods on the farm very interesting. I thought a few paragraphs regarding the management of our 200 andre
arm with proposed changes, might also bo interesting harm, with proposing it is necessary to have the farm divided into fields and well fenced. I prefer fields of twenty acres, and as nearly square as possible. They are convenient for working. In plowing, two three
 and fishing am th it With the harrows, cultivators and dial harrows, th $s$ lengthwise.
When having operations begin, these folds are also cory desirable, especially for using the hay-loader. mow, we always out a width of about
col 30 feet or more around the feed, to give space for turning with the loader and wagon. Then we cut it
in three equal sizes, which is all five men can handle in a day. This is three days' work on a twenty-acre gif We have two men in the barn and two loading. Boys drive the teams on hay
and also for the hay fork
When harvesting rush is on, two men and their horses are kept tugs, one on the reaper, and the other
shocking. In this way, these fields are but a day's shocking. In this way, these
work with and seventoot binder, and teams changing of. s there are generally nine horses kept on such a farm. the third man could be engaged plowing the hay and
With the usual herd of 15 or 20 cows, and additional young cattle and fives of sheep, and hogs. thees hells are fund none con fig for pasture is all used for here is a silo, such a held is also almost mill
roots and corn, while the remainder might be sown in some other kind of grain
Where a spring creek of fair size flows near the Suildings, it is easily possible to build a dam. If three
or tour horsepower could be derived from a water wheel, a dynamo could bo driven, from which a motor of twenty horsepower could be installed for running won. grain thresher, with band-cor. Should circumstances do mend, the ensilage -cutter or chopping mill also could be operated. Arrangements, also, could be made to run the cream separator, washing machine, $\begin{gathered}\text { voniogrind } \\ \text { er and other machinery. } \\ \text { It is }\end{gathered}$ is also convenient tor lighting purposes. Where waterpower is not available, Amity Mine engine would answer the purpose, with properly installed, and operated intelligently. It it possible to thresh the grain as fast as it it brought from the field by simply throwing it on the sell-geder.
fin the grain, and two are all that are necessary for loading in the field. paying occupation. Every year Andes it more so, particularly on a lari that yo od public-
 "The Farmer's Advocate." All that is necessary in or the young farmer to bo wide-awake and take ad
ERVIN GROT. antage of opportunitie
Waterloo Co Cont

## FAIR DATES FIXED.

## Nov. 28th to Dec. 10.

position, Chicago.
Nov, 80 th to
Doe.
ard. -Maritime winter Fair, Amherat, N. S. ${ }^{\text {Lith- }}$ National Dairy Show, Chicago. ${ }^{\text {Dec. }}$ thu lh 11 th

Poult to 22nd. -Eastern Ontario Livestock and Poultry show, at otto

AGRICULTURAL BLUESTONE: A WARNING.
During the past few months, there has been sent to us for examination, under various names, several
samples of a material (or materials) recently put on the
market as a substitute (or copper market as a substitute for copper sulphate. Analysis
has shown them to be a mixture of sulphate or iron (copperas) and sulphate of copper (bluestone). It is possible that all the samples have a common origin, as a by-
product, but they differ somewhat in the proportions product, but they differ somewhat in the proportions
of their ingredients, pointing, probably, to a rough of their ingredients, pointing, probably, to a rough
mixing of the two sulphates. The percentages of sulphate of iron range from 49 to 59, and of the sulphate of copper, from 41 to 51 .
In one case, 'the price asked was more than double that of bluestone; in the other instances, the infor-
mation furnished stated that the material could be obtained at a lower figure than bluestone. It is, per
haps, scarcely necessary to add, that copperas is so very much cheaper than bluestone, that the price of the mixture should not be more than half that of sulphate of copper.
Many
Many of the claims made for this material, as a
substitute for bluestone, in the treatment of wheat for the prevention of smut, and in the preparation of fungicides (Bordeaux Mixture, etc.) are so extravagant
that no intelligent farmer will be misled thereby, but that no intelligent farmer will be misled thereby, but
it may be well to remind your readers that sulphate of iron is much less effective for the purposes indicated than bluestone. Indeed, so much lower is the fungicidal action of the former that we doubt if such a
mixture as that undar consideration could be advanmixture as that under consideration could be advan-
tageously used instead of bluestone, under aily conditions, either for the treatment of wheat, or in the orchard.
Ottawa. $\xrightarrow[\text { FRANK T. SHUTT, }]{\text { themist, }}$

## TRACK DRIVER BANQUETED.

## London, Ont., tendered a banquet to T. W. Entricken,

 of Tavistock, owner, and Dan McEwen, of London,driver of The Eel, the famous paciny stallion that has brought credit to Canada in the Grand-circuit races
this season. The popular driver was presented with a diamond ring. The banquet was an informal aflair, and was arranzed by George McCormick. President of the Association, and Dr. Wood, the enthusinstic SecreOver one hundred horsemen were in attendance.
At Tavistock, also, on the evening of October 23 rd, a magnificent demonstration of similar nature was made. Horse-loving Canadians, and particularly those of Tavistock and London, are proud of Messrs. Entrick-

Hon. James.S. Duft, new Minister of Agriculture for Hon. James.S. Duff,
ontario, has been reelet
stituents in West Simcoe

## CANADA'S GRAIN PRODUCTION

$\qquad$ partment of Agriculture, at Ottawa, Uanada's grain
production for 1908 will total alout as follows barley $50,723,000$ bushelt; ; rye, 1,889,000 bushels peas, $7,1788,000$ bushels ; beuns, $1,182,000$ búshels;
buckwheat, $7,365,000$ bushels; Hax, $1,575,000$ bushels: corn for husking, $21,007,000$ bushels; mixed grains, 19,113,000 bushels. On Overaces wheat yield is estimated at $17,264,000$ bush. estimated at $108,794,000$ busheis, an average of 35
bushelver bushels per acre. The barley crop, $21,570,000$ bushels,
an average of 29 bushels per acre. The hay and clover
crop 5,329 oon crop, $5,329,000$ tons, an average of 1 t tons per acre.
The total wheat crop of Manitoba is estimated at $51,748,000$ bushels, an average of $17 \pm$ bushels per acre.
Saster Saskatchewan's wheat crop is placed at $35,940,00$ 's
bushels, an average of 15 bushels per acre. Alberta's wheat crop is estimated at $8,130,000$ bushels, an aver-
age of 30 bushels per acre. For oat crop. the estiage of 30 bushels per acre. For oat crop, the esti
mated total yields are : Manitoba, $50,267,000$ bushels, or 38 bushels per acre ; Saskatchewan, $29,763,000$ bushels, or 32 bushels per acre; Alberta, 25,451,800
bushels, or 49 bushels per acre bushels, or 49 bushels per acre.
Figures from official sources at Winnipeg place the total cash value of the Western grain crop at approximately one hundred and twenty-five million dollars.
This exceeds former estimates by several million dollars. Conditions throughout the West are most en-
couraging. Threshing operations are almost finished. A Lethbridge (Alta.)
winter whent says
(exceedled that some fiel fields of winter wheat exceeded 70 bushels to the acre. A farmer
at Gladstone, Man., is said to have had a vield of 45 at Gladstone, Man., is said to have had a yield of 45
bushels per acre off a twelve-acre field. From Regina comes a report that a yield of 38 bushels, grading No. comes a reprt that a yield of 18 bushels, grading No.
1, was thrested. These sample yields are the best
evidence that the sanguine forecasts of the past months evidence that the sanguine forecasts of the past months
were not far from the mark. Fxceptionally favorable were not far from the mark. Fxceptionally favorable
weather conditions for seeding in the fall-wheat dis-
tricts of the West

## EASY METHOD OF HARVESTING TURNIPS.

Editor "The Farmer's Advocate ": issue of "The Farmer's Advocate" is quite an improve ment on the old method of pulling by hand and top
ping with a knife, but we would think this method somewhat behind the times-raising one row at a time with a plow, and then the vast amount of work bump-
ing the turnips together to remove the earth from them.
Our method is to let the young cattle in for a
couple of feeds, to take the bulk of the leaves; then
couple of feeds, to take the bulk of the leaves; then
arross the rows with the horso-rake, to rembive
remaining tops, and we ure rid of all rubbiblin monking the "ork much nicer. hitch a good smart team to it, lay a board er whind
across the sections about the middle of the barrvow stand on the board and drive the horses gat d
quick step across the rows, to keep the bartowe quick step across the rows, to keep herame mide quick step and the turnips. When you bave areund
sliding and
the section, raise at once, lay the board to sumber and run beside the harrow, driving the temmaname althe rows-the faster you go, the faster the turbips, romil. This
 the earth a lot of turnips in a day. YOUNG farmarire.
Pontiac Co., Que.

THE DUTHIE - MARR SHORTHORM SALE At the annual auction saie, on Octuber 13 Summ, bull and heifer calves from the noted heras of Mry Aberdeenshire, the attendance of breeders was bung amme trade quite brisk, although the average of prixicess wis somewhat lower than last year. The 14 C'omllymise bsall
 highest price being 620 gs . ( $\$ 3,250$ ), for the well Royal Vanguard, by Vanguard, purchased by Gimank was paid by Mr. Geo. Harrison, Gainford, for them Royal co Prince, by Vanguard, and out of a Primouss Royal cow by Royal Edward. Dr. R. M. Wilsom. Tanter. at 430 gs., and Mr. J. Deane Willis secured the mod Conntur nie Vanguard at $400 \mathrm{gs}$. . The prices for the Conll monve bulls ranged from 52 gs . to 620 gs . The temm heriver calles from the same herd averaged $\$ 131$ ( $\$(6353)$, the
 was by far the highest in the history of the sale.f. miremm
The 10 tppermill hull calves sold mado am anemrace of $£ 687 \mathrm{~s} .$. as compared with $£ 105$ last year. whe mixet Bank, taken by Martinez de Hos, Buemos Axrras. The
 reed by Mr. Duthie, sired by Pride of Avom. Roan Lady dam, averaved $£ 29278$. Twoe by Sown-


 were bought for Mr. D. Cargill. of Medicioe Minth
Theso were the only purchase for North

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TRADE TOPICS.
PROGRESS IN SEVENTY YEARS. Gradual advancement is the best evit
dence of good management. In supply mag articles for market, superior quality is a very necessary complement to good
management. In 1839, the Frost \& Nood Company, Ltd., began the manulacture of farm implements in a sma
blacksmith shop in Smith's Falls, Ont., with the motto. " We will make the very best class of farm implements that can
be made, by using good materials and expert workmanship, and will induce our
customers to use that machinery by dealcustomers to use that machinery by deal-
ing with them in a straightforward manFrost \& Wood are still manufacturing mplements on the ground occupied by
the blacksmith shop in 1839. This year they have issued a unique, handsome and instructive catalogue in celebration
their seventieth anniversary, in which traced the development of the business this enterprising firm. In addition to
this ""Tale of Seventy Years." it contains descriptions of Canadian agricul-
tural colleges and experiment stations tural colleges and experiment stations,
and valuable pointers on important methods and operations on the farm. Stress is laid on the importance of edu-
cation in relation to profitable farming. The pages are replete with high-class illustrations of agricultural scenes, an
Frost \& Wood machinery in operation Frost \&
and ready for sale. Nothing has been
left undone that will make this 1909 left undone that will make this 1909
catalague one that will be of interest to catalogue one that will be of interest to
the farmer. Those who write to the farmer. Those who. write to
Smith's Falls, and mention ." The Farmer's Advocate," will receive a copy by
return mail.
of value to horsemen.-Horses that have been used steadily at work,
either on the farm or road, frequently have some strains whereby lameness or enlargements have been caused.
bault's Caustic Balsam applied
directions, will be of great bene

 Miscellaneous

SCORE-CARD FOR JUDGING 1 wish you would publish in The


 impracticable. Wide differemane of eppion-
ion on the part of experienced beremers and judges as to the comparative valure render it dificult to frame a stomidemard tho
wort by that is satisfuctornc in every
 o be competent. The horse wimidh park-
ances best in the estimation of the mocting judge in confortuation sion shen
quality of bone and foet,
 That Lord Briugham was fullure ampalle
"You, my lord," said wellimertom, amery having been a great lawyer. mor flow her-

$\qquad$
$\qquad$



## MARKETS.

toronto.

## 

Monday, Oct. 26 th, being election day, receipts of stock at West Toronto were
light, numbering 436 cattle. Trade slow. Export steers, $\$ 4.50$ to $\$ 5.00$; choice
butchers', $\$ 4.75 ;$ 1oads of good, $\$ 4.15$ to $\$ 4.50$; medium, $\$ 3.75$ to $\$ 4.00$; $\$ 3.50$; milch cows, $\$ 44$ to $\$ 65$; calves, $\$ 4.00$ to $\$ 6.00$ per cwt . Sheep, $\$ 3.25$ to selects, $\$ 6.15 ; \$ 5.90$ at country points,
R REVIEW OF LAST WEEK'S MARKET Receipts of live stock at Toronto last
week totaled 367 cars; 5,784 cattle, 6,770 hogs, 5,104 sheep and lambs, 264 Thes, and 82 horses.
and butcher purposes was not as good
at the Union Yards as usual, but much the same as has been coming for many
weeks past at the City. Trade was dull weeks past at the City. Trade was dull
for all classes of fat cattle, excepting a few first-cless butchers', which were porters.
Exporters.- - Steers of finished quality were worth $\$ 5$, but the bulk sold at
$\$ 4.50$ to $\$ 4.85$ bulls, $\$ 3.50$ to $\$ 4.40$,
but the bulk sold at $\$ 3.75$ to $\$ \$$ per

Butchers'.-Prime picked lots of butchers'
sold at $\$ 1.75$ to $\$ 5$; loads of the best, old at $\$ 1.75$ to $\$ 5 ;$ loads of the best,
$\$ 4.30$ to $\$ 4.70 ;$ medium, $\$ 3.75$ to $\$ 4$; common, $\$ 3.25$ to $\$ 3.50$; cows, $\$ 2.50$ to
$\$ 3.75$; canners, and bulls, $\$ 1$ to $\$ 2.35$. Stockers and Feeders.-Short-keep feed-
ers, 1,150 to 1,200 ibs. each, sold at $\$ 3.90$ to $\$ 4.25$; steers, 1,000 to 1,100
ibs. each, $\$ 3.40$ to $\$ 3.65$, and oxtra
quality, $\$ 3.70$ to $\$ 3.80$; stockers ranged quality, $\$ 3.70$ to $\$ 3.80$; stockers ranged
all the way from $\$ 2.25$ to $\$ 3$, according Milkers and Springers.-Real first-class milkers, and forward springers, such as buyers, sold readily at $\$ 45$ to $\$ \$ 5$ each $\$ 75$ each. Carloads were shipped to
Montreal that averaged as high as $\$ 53$ each. Common, light cows, sold from
25 to $\$ 35$ each. Weal lightves.- and pricests of firm for any approaching good quality. There are too neither beel nor veat. $\$ 6.50$, with prime
best sold at $\$ 5.50$ to
new-milk-fed at $\$ 7$. Heavy calves, $\$ 4$
ne ver $\mathrm{cwt}$. ., with some inferior
per cwt.
Sheep and Lambs.-Receipts were targe, with trade inclined to be slow. Prices
were easy at following quotations: Exwere easy at following quotations. cw.
port ewes, $\$ 3.25$ to $\$ 3.50$ per cwt.
rams, $\$ 2.25$ to $\$ 2.75$ per cwt , lambs, rams, $\$ 2.25$ to $\$ 2.75$ per cwlo of ewes
$\$ 4.25$ to $\$ 4.50$ w with a few lots of
and weathers at $\$ 4.60$ to $\$ 4.65$ per cwt




Before the end of another week Hal lowe'en will again have come and gone, its license for merrymaking and trick-playing once more affording a curious illustration of how a religious spirit which inspired it are dead, desenerate into mere bufioonery, the more pointless because even the ceremonials out of which it grew are genorally unknown.
The celebration of Hallowe'en as a religious festival dates far beyond the
Christian era. The Druids observed it, but with dread rather than with rejoicing, keeping fires alight among the dim forests of Britain the whole
night through to drive off evil spirits. night through out of this superstition, possibly grew the later belief that upon the night preceding All-Saints' the spirits
of darkness are loosed, and for one of darkness are loosed, and for one night permite belief in turn died out,
and when this
its relic remained in a mere license its relic remained in a mere license
for revelry which would not be tolerated at any other time of the year. The feast of All Saints', whicl Hallowe'en ushers in, has not, however, been so lost sight or, being stil Roman Catholic, and Lutheran churches, in honor of all the saints of Heaven. In the Eastern churches
the festival has been observed since the fourth century. In the West i was instituted in the early part of the seventh century by Pope Boniface Pantheon (huilt hy Marcus Agrippa 25 B . C., in honor of Jupiter and al the gods), to the worship of the true
God.

Theodore Roosevelt the son of President Rousevelt, who graduated
from college not long ago, has gone
to work sorting woot in a carpet facto work sorting woot in a carpet factory, preparatory to learning th
business.
like the other employees, business. is obliged to go to work at seven in the morning, put in his ten-and-a-half-hour day's work, and accept th small wage paid to all beginners. N easy as possible for him. He will scarcely be "up against it" to so
great an extent as the young laborer of less illustrious parentage, yet he the discipline of an establishmen must be upheld.
his son at a lily-handed have put his son at a realizing the place which he may yet have to fill in the publ life of the United States, he has de-
termined that he shall have the termined that headest possible outlook; that he bhall learn human nature as it only can be learned by coming into ctose contact with of life; that ho one sphere of to understand the workingman and his problems through being himself a workingman; that he
shall learn the dignity and meaning of skilled manual labor by actual
capable business man through that
acquaintance with business life which acquaintance with business life which
can only be acquired intimately by mastering all the details even of one business. If at the end of his train-
ing young Roosevelt escapes being an ing young Roosevelt escapes being an
all-round man, shrewd, capable, unprejudiced, liberal, it will not be the preult of his father.
At all events, President Roosevelt, in counselling his son to such a all-round man, the one best fitted fo all ordinary and public walks of life
is one who is most capable in every is one who is most capable in every
way, who can do manual or mental work as necessity offers, and can thus
command a view of both fields. In command a view of both fields. In
these days of books and the possibilithese days of books and the possserery
.ties of disseminated education, ever
workingman should be an educated workingman should be an educated
man, and every educated man, when man, and every educated man, when
occasion demands. a workingman. This has scarcely been as well understood as it should be. Possibly, the fact that the President of the United
States and his son have appreciated States and his son have appreciated
it, may do a little to impress the it, may do a little to im.
necessity upon other minds.

We quote from Christian Guardian Some twelve ycars ago the bar the House of Commons acquired an
unenviable notoriety through the aver-indulgence of some of our legisof the first sessions of the new Parliament, the Speaker announced that presume that this was done, but something has happened since, and
the bar has been restored to the leg islative building. Last spring the matter was brought to the attention of the public, and it was supposed
that there would be an end of it, and that no unlicensed bar would be again allowed within the limilts of the House of Commons building. But
on July 18, 1908, the matter was on July 18, 1908, the matter was
brought up in the House of Commons by Mr. Richard Blain. Mr. Pugsley
bsked: Has not that asked: 'Has not that been abolished swered: 'It was in full blast yester-
day.' Mr. W. R. Geldent, of Truro looked into the matter, and was told that the bar was conducted by sam
uel Cassidy. Now the returns show that Samuel Cassidy was paid for $\$ 431.75$. It was stated, also, that the profits of the bar went to the man who conducted it. There is also keep undesirables out of said bar, and weople of Canada. This may seem a people of canada. little thing, yet surely it is beneath the dignity of our Canadian Parlia-
ment to allow a bar at its very ment to allow a bar at its very
doors. Just who was responsible for the re-introduction of the bar we do not know, but we think that the next
Legislature, when it meets, should at once get rid of this most undesirable The aloove suggestion must be en dorsed by everyone who desires to see fair dealing in connection with
all that transpires at (our center of vovernment. Soll" years ako, in were shown the bar in the basement,
and the wine cellar. in which a light Was burning, but which was guilthess
of any sign of cas $\backslash \mathrm{s}$ or bottles


door into the apartments under the Senate Chamber to be served with time the query suggested itself as to the need of such an appendage to the
House at all, nor has the necessity since appeared. Surely our legislators, above all men, and above al
during the session, in which legisladuring the session, in which legisia
tion is in progress. should be clear of brain and judgment, a condition to which the presence of a bar doos
not greatly conduc. True, the lat-
The not greatly conduç True, come arater may be patronized by compara-
tively few, yet evil that exists at all
is evil. Even leaving that out of is evil. Even leaving that out of
the question, the House was not built the question, the House was not built
for such indulgence, but for work, the for such indulgence, but for work, thovide; then why prostitute any portion of it, or any portion of the people's
money which goes to its support, to money which
such an end?

The fabulous sums paid this year for paintings by the ald masters ex emplifies again the tendency to heap
upon men's graves the roses which upon men's graves the roses which their lives. Turner was not, it is true, unappreciated. Owing, per-
haps, to his exaltation by the popuhaps, to his exaltation ay tuskin, above any artist of his
lar Ruy, his pictures found ready sale day, his pictures found ready sale death threequarters of a million pounds have changed hands in King The highest, figure for a single picture this year was 12,600 guineas, paid
for "Morelake Terrace," ${ }^{\text {a }}$ picture which only thirteen years ago was bought for 5,200 guineas. Statistics do not tell the original price realized
by Turner himself. About the same by Turner himself.
time Constable's dral," painted in 1826 , for which
donstable did not Constable did not receive, probably,
more than 100 guineas, sold for 7,800 guineas; and a Gainsborough, "The Artist's Daughter," which was bought in 1878 for 360 guineas, sold for 4,550 guineas. Romney's Mrs.
Morley," which realized 30 guineas
in 1790, sold this year for 2,750 guineas: and Sir T. Lawrence's 1831 Duchess of Norok, sold for in guineas
unrere is injustice somewhere in such Either these pictures, faded as they have become, are tremendously overrated at the present day, and some-
one is reioicing in virtually ill-gotten gain, or they were tremendously ander-rated in the first place, when
glowing in their pristine the artist. whose very life went into the making of them, was the sufferer As a rule, the artist, in his day and generation, receives about as little encouragement, from a pecuniary
standpoint, as any man of his time standpoint. as any man or his time.
Ilis works may he admired, but too
often arr left hanging on the walls often are left hanging on the walls
of his studio. Half $a$ century or more after his death men may be
quarrelling to gain possession of tharrining to gain possession of And vet the discrepancy is due to that same old principle which does art We are too sally ready to keen
laick the roses while the living man might receive joy and courage from
them. When he is dead we heap

ITEMS OF INTEREST.
The Building Code Revision Committee in New York wishes to restrict the height of buildings to 300 square, in which case they may be square,
350 feet.
Mr. Andrew Carnegie has devoted £250,000 to the creation of a hern henefit of those who have been injured permanently, or for a time, in saving human life, the money in case of the death of the "hero" to go to those immediately dependent upon him.
A good story is told of the artists, Van Dyck and Franz Hals. Van
Dyck, upon one occasion, had an opportunity to visit Hals at his studio, and resolved to do so incognito, pre-
tending that he was merely a gentletending that he was merely a gis portrait painted. Hals completed the sketch with his usual swiftness, when seemed a very easy matter, asked perseemed a very easy mand. Working with equal rapidity, he presently produced an admirable sketch of his host. Hals glanced at it with
amazement. "You," he said. "must be either Van Dyck or the Devil."
Among the many solutions given as to the origin of the kilt, the following, taken from Sir Herbert Monax is interesting: It grew, he says, out of the dress worn by the Scotch Auxiliaries of the Roman Legions in A. D. 397, constituting then the sole garment of the wearer, and consistround the hips to form a kilt, with the free end passed twice over the ald Apropos of thisht question an old legend to the effect that the tar tan originated in the fading of our
first parents' aprons of fig-leaves into patches of various colors, may be amusing. A few verses written nearly half a century ago by a Scotcb
minister, and recentiy contributed to minister, and recenty contributed : Gaelic in Eden.
Shall Gaelic speech be e'er forgo And never brought to mind ?
For she'll be spoke in Paradise In the days of auld lang syne.
When Eve, all fresh in beauty's charms First met fond Adam's view.
The first words that he spoke to her Were " Kimner---shun-dhu !
When Adam from his leafy bower
Came forth at braak of day,
He'd always for his " Morning " take
A Quaish of Usquah-bagh.
And Adam in his garden fair.
Whene'er the day did close.
Was dish that he'd for supper take
And when wi' Eve he'd hand a crack.
He'd take his Sneeshin Horn,
And on the top ye weel micht mark
The Sneshin Mull is fine, ma freens,
The Snesshin Mull is grand.
Well aka a hearty sneesh, ma freens,
$W_{\text {e'll }}$ take a hearty sneesh, ma freens.

OCTOBER 29, 1908
When man frst telt the
The wind and cauld He twisted and cauth taoot his heg. hips Ad Musio frst on ear And Music first on earth was heard
in Gaeelic acconts deep. When Jubal in his Oxter
The Blocher $\mathrm{o}^{\circ}$. sheep
The braw bagpipes is grand, ma treens Totll tak' anither Pibroch yet
Wor the days o' Auld-lang-Syne.
For
Fragments From A Welsh
STORY BY ALLEN RAINE.
${ }^{-1}$ I love
TORN SAILS." tains barre,
Her snow-white sea gulls, and her
maidens fair No words
No words could better represent
the ardent affection for her beloved the andry which breathes through every page written by the famous Wels
authoress, Allen Raine, a tribute to whose memory appeared in our paper Whose memory appearea in our paper
a fortnight ago. It is thus she de-
scribes " M wntscison," the scene of scribes "Mwntscison," the scene of
her sweet and whoiesome litule lovestory, "Torn Sails.
most see it as we re most Between two rugged hills, which
rose abruptly from the clear green waters of Cardisan Bay, the Gwen-
draeth, a noisy little river, found its draeth, a noisy movers above to the sands which formed the entrance from
the sea to the village of Mwntseison.
 through which the fussy little stream looked like nothing more than a clus in a chink of the rocks, the cottages
being perched in the most irregular confusion, wherever sufficient space
could be found between the rocky knolls for a house and garden. The stream running through the center of
the village was an object of interes and attraction to the whole comfor all sorts of domestic operations. On its banks the household washing
was carried on, fires being lighted eras boiled in large brass pans. Can we not ulnost hear the merry
chattering and leughter of the busy chattering and laughter of the busy
workers, as well as their voices, when joined in chorus as they sang
their hymas and weird Welsh songs in sweetest harmony? Here we are toid that Nance Owen insed the laver-weers, preparatory
to boiline them down into that ques tionable delicacy known as laver
bread"; that here the sheep from the noors had, wors, to submit to their early washing; here the girls and boys paddled and sailed their boats when the storms of winter made the little harbor unsafe, the fishing-boats were hauled up together.
trong wooden bridge which spanned he narrow river was seldom used ping-stones sufficing as a more na ural mode of communication be and it was in the humble cottages which, with only one or two excep-
ions, were mostly straw-thatched nd weather-beaten an independen ort of a way, without any seeming eference to the rocky, stony and -egular lived and breathed the people ith unbroken interest to the last with unbroken intery.
page of their story.

THE SAIL FACTORY
A large wooden building near the he cliff, was the central pivot upon erest of the place, for within its ever wide open doors was carrieding,
the thriving business of sail-making And comfort to nearly every household in the place. Hard by. in
left of the hill. ston the house rugh Morgan.

THE FARMER'S ADVOCATE

## The Quiet Hour.

YOUR WORK SHALL BE REWARDED
The Lord is able to give thee much
Amaziah, King of Judah, made great ites, and tried to strengthen his forces by hiring a hundred thousand men in addition to his own army. Then a mes given a free choice. He might go into
the battle relying on this army of hirethe battle relying on this army of hire-
lings, or he might put his trust in God, and prove it by sending home the men he had engaged. He could not have
both the earthly and the heavenly assistance, having received this warning. "But if thou wilt go, do it, be strong for the the enemy: for God hath power to help. and to cast down."
And Amaziah saw plainly that it would And Amaziah saw plainly that it would for the sake of earthly helpers, but there
was one difficulty. These men had alwas one diffculty. Yase sum of a hundred talents, was itat be a dead loss? And the answer was decisive: "The than this."
It is often so in life. To-stand out boldly for that is absolute sooner or later, mean barthy loss. This life is a testing time, and though Satan as he tried to bribe our Master, by offeras he tried to bribe our eoter, tries to
ing the whole world, he often
dazzle our eyes by the gliter of some great worldy advantage if we will only
stoop to degrade our own souls by deliberate wrong. or it may not be a
large gain. Sometimes a person will cheat in a small way when he would not I bought a picture onoe that cost $\$ 1$, and found when I kot home that two pictures had been given me by mistake. It was who had sold it to me, but when I ro-
thrned it the clerk soemed quite astonturned it the clerk seemed quite aston-
tshed. He evidently thought it probable that anyone would be glad to get the
extra picture for nothing, when the iraud extra picture for nothing, when the Iraud
could never be traced home. If had kept it, what e costly picture it would
have been 1-paid for my honesty. God and my uwn conscience would have doclared me to be a thief, and the loss of
reputation would be a small thing comroputation would be a small thing com-
pared with that misery. When a man is tempted to do a shady
thing in business. because he thinks it will ". pay.". let him remember Amaziah.
He found it paid far better to dismiss He found it paid far better to dismiss
his hired allies. even though it meant a dead loss of a hundrod talents. for he won the battle with God's help. and
would certainly have lost it if he had Deen disobodient.
Iut it is not only in matters of honBut it is not only in mattors of hon-
esty that this text touches our everyday lifo. It gits in every where. One is
called to make a great sacrifice. Percalled to make as ereat way of seeking
hape duty atands in the the path of lito
oue's own happiness. The Which soems most attractive can. per-
haps, only be followedl by seliahly nacrlhaps, only be followed by seliashly macri-
acing imperative family claims. If the path of duty is cbosen, no saatter what it may cost, then it is cheering to re-
member our text: "The Lord is able to give thee much more than this.". Those who choose to wilfully live a selfish lite
will tail to find the happiness they seek. for happiness is only to be obtalned
from God, and Ho will not accept Duty trom its price. But be very sure that happiness. in ever-increasing measure, will
be your portion if you follow God's lead ing. ." He always wins who sides with
ing God." who is able and also desirous to give you far
ficed
Him.
Coman leaves out the thought of Cod in planning for the future, he makee
$n$ very great mistake. $A$ small income. with God, is infinitely greater riches than
$n$ million a month. without God. It a million a month. without God.
gives moro genulne happiness, and life is that the only way to real succoas
is through sacribce.
This is procleimed


 . poessibly bo wosted. Ho is a rich and
kenerous Master . Atching closely for generous Master, watching closely for
very chance to reward openly those who
who generously with Him He will certainly nover bo anything but royal in Hio bounty towards us. Lut us place all
that we have and all that wo are at His disposrl, in tull conodeneo that Ho
can do preat things in ua, and through
 mion divs, aceepted winh radiant truat may shine like His dear saints and givo
Him overfrech jov Think honor it is to be able to make God ro-
 Iy on their daily round, like Iraded marching round Jericho. When the right
moment arrives the siteaty marching will prove to have been effoctive, and the
walle which blocked all progrese will Lot us remomber that onch of wa

 learan the patience and trust and courace noeded to help us to walk grandly to-
 Nover submit to be discouraged if add
is working with you. A farmer dropo oeed into the ground. It is allte eost with him, and the soed mystoriously to the souls of othera. You drop in your it it it it no how littlo you can do. But wise enough to secure God os. your ally, Lhat ittelo eood may acocomplish more roal apirtiual good than any amount of azyou som satonish mang roturns for your small outlay, don't tako allt the praileo too an oleotrio car move wirtily llong. but worth though it it all that can bo sean. It tha inviaible oleotricity were not thero
to mupply the propelilig force, the man could do nothing. And if you try
wold sool, and it springs up at your touch, Ho torghe that od has done ito and tura for your work than you can ank
or think.
on
lee let not your hands be weakt: for yourt
HoPE.
Work shall be rewarded."

Dear Friend Hope,-It is with groee pleaure that I write you chose fow linemo
truating that in them somehow you mat gil cheoring word of joy and encour the bloesing that you have brought my soul through your thoughts in the ward evory woek for the coming monaeg have never boen disappointed yet. Ihavo only ben tealing "The Farmer's Advo-
cete" about nine monthe, and I Ieel now chat 1 could never do without tel The
than moosagen in the Quiet Hour nlone self.
worth
indeed, no money could buy the So now 1 will say good-bye to you meane foss from to many more bloeed that Ho may contitur the to all you gile his beasod Holy Spirit, and insplre youe
and at you more and more anch day for
Hii Hit service, and remomber you ahall have
my pravera, which, I trust, ahall bo ulito Aaron nad 'Hur holding up Moses' hande when they wero too neavy for him in the
bottlo et Rephidon, thus giving vioctory and dellyerance to Terael.

I have already writen to thank the



About the House

RECIPES
 butter and two tablespoonfuls milk. Shape carefully into cones,
ten minutes in the oven. ten minutes in the oven. piecrust and bake. Make a filling a follows: Heat together one cup milk one-halt cup sugar, butter size of a hick-
ory -nut. When hot, add one and a half ory -nut. When hot, add one and a half
tablespoons grated chocolate, and when cooked stir in the beaten yolks of two eggs. Dissolve in cold milk 14 table-
epoons cornstarch, stirring over the fire spoons cornstarch, stirring over the fire vanilla, and oll the crust with the mixture. Cover top with the beaten whites of the aggs, or with whipped cream.
Steamed Corn Bread.-Two cups cor meal, one cup flour, one small cup mo-
lasses, two cups sour milk, one teaspoon soda. one teaspoon salt. Steam three Hard Sauce.-To be used with
dingerbread, used as pudding, ot Slightly soften one-halp cup butter adding one Lablespoon hot water. Stir one-half cups light-brown sugar. Stir until very light. Favor with nutmeg
and vanilla. As onty a litule of this and vanilla. As only a little of this
pauce is used, half the quantity will do English Apple Pie.-Slice sour apples English Apple Pie.-Slice sour apples
very thin, and fill a deep dish. Add ne-quarter cup water, two-thirds cup
ugar, a sprinkle of salt, and grating of lemon rind. Wet the edges of the dish, and cover top with a good paste. Eat
warm with or without cream and sugar. Cheese on Toast.-Grate as much cheese tard, salt and red pepper. Cover slices toast with the mixture, put in a hot
oven, until the cheese begins to melt. and serve at once. Cakes.-One cup flour. Potato Griddle Cakes.-One cup nour,
aifted with one teaspoon beking powder and one-half teaspoon salt, two potatoes grated. Make into a batter with one-
half cup milk, and fry on a well-greased hot
A Good nice bread thinly, and butter the slices. Peel, core and
apples. a pient and and fill it
with layers of the bread and apples unWith layers of the bread and apples un
til full, sprinkling each layer of apples with sugar and any kind of spice that is preferred. Bake until the apples are
perfectly soft. Spiced Apple Pickles.-To three pounds
pared apples (whole or quartered) allow pared apples (whole or pounds sugar and one half cup vinegar. Tie in a cheese-cloth
bag a stick or two of cinnamon, a blade bag a stick or two of cinnamon, a blade
or two of mace, and a few cloves, and put with the vinegar and sugar. and cup of water. When the syrup boils, put in the apples. When tender, seal.
Jellied Apples.-Remove cores and pare Sellied Apples.-Remove cores and para
art apples, leaving them whole. Set an earthen baking dish, and fill cavi

THE FARMER'S ADVOCATE

THE FARMER'S ADVOCATE ies with sugar.

HELPFUL HINTS
Beating a cake makes it ligh
stirring it makes it tine-grained. A ciake made with molasses or brown
A sugar has to
it burns easily.
Pie paste should always be made very
stiff, as rich as you choose, but with as stiff, as rich as you choose, but with as
little moisture as possible. Fruit stains on table linen may be re-
moved by rubbing as soon as possible with methylated spirits.
To remove blood spots, moisten with cold water, then powder freely with dry
starch. When quite dry, brush of the starch.
Never
wash chamois gloves in hot
water.
Use cold water, and avoid water. Use cold water, and avoid
soap if possible.
Clean soiled photos with breadcrusts, rubbing the surface lightly.
When the pores of the skin have beWhen the pores of the skin have no-
come enlarged, wash the face morning
and night with hot soft water, using cheesecloth bags fillod with bran and
rubbed with castile soap to rub the skin rubbed with castile soap to rub the skin
with. Atterwards douche the face with clear, cold water. For oily skin, use
little borax in the washing water. little borax in the washing water.
If stoveblack does not ahhere to the If stove-black does not ahhere to the
stove, try adding three or four drops of
glycerine or molasses to the blacking, glycerine or molasses to the blacking,
and you will find it an easier matter to
blacken the red spots.
HALlOWE'E

When she threw her apple-parin' it jest
Which is what my nage begins with, an
An' she turned at red red an' smily,
she sort of caught her breath,
An my heart begun to hammer
All the gemes was played an
th' folks begun to dance.
th' folks begun to dance,
When I fin'lly got my senses-an'
An ${ }^{\prime}$ I didn't stop for manners-I jest
held her mighty tight,
$A_{n}{ }^{\text {n }}$ I sez, with no preamble: "I shall
Then I had to step outdoors a spell
f'r air an'room to stand$\mathbf{F}^{\prime} r$ she made no other answer than to sort of squeeze my hand,
But th' way it eset me feelin,
I knew, as clear as light.
I know, as clear as light.
That th" whole earth was created jest for
this particiler night
There's a moon as big's a barrel, u
An atop of heartle wind a-whistlin' to itsel
like, kind of still ;
$\mathrm{An}^{\prime}$ th' dead leaves an' th' cornstalks.
an' th' frosty silver grass,
Are kep' shuftin' ${ }^{\text {an }}$ a rustlin' by the Are kep' shuffin' an' a rustlin' by the
folks we can't see pass.
$A_{n}$ ' the potions they're a-brewin' make But th' 'tinglin', spicy smells. kit an' caboodle couldn' muster sech a charm
An , He on my mart off home together
An' th' thing I'm moing to ack her An . When we ve left the crowd behind.
An it's Hallowe'en that's spunked me
 sénce that parin' made an "A."

- -Iner. G. Thompson.

GERMAN SCHOOL BATHS. According to the London Mail, "every
hoard school in Germany is provide with a well-equipped kymnatium and a
'brausebad the or dauche. The is situated in the lower portion of the buld
ing, and during the winter the heating epparatus for the school supplies also the necessary water for the douche baths.
"In summer the water is heated by a gas stove containing several Runsen
burners. By the latter method the baths are ready for use in hall an hour. Just
as the times of instruction exercises and douche baths. The elder children receive three or four hours of physical
training per week, und every child at

THE FASHIONS


To be made with high or
long or three-quarter sleeves long or three-quarter sleeves.
The work apron that is really protec tive and practical is the one that wise
women demand. This one is just as women demand. This one is just as
well adapted to the artist and the studio as it is to the housewife, and will keep the gown of either fresh and free from
soil, no matter what the occupation of soil, no matter what the occupacion of the moment. In the illustration, it is
made of gingham, but many women like butcher's linen for the purpose, as it is
durable, and grows handsomer with each durable, and grows handsomer with each
washing, and plain colored linens and
chambrays share the bonor chambrays share the honors with the
figured ones, and with percale or any one figured ones, and with percale or any
of the simple printed wash fabrics. of the simple printed wash tabrics.
The apron is simply made, is full an The apron is simply made, is full and
gathered, and allows a choice of the high neck with collar, or a square one, and of three sorts of sleeves, the long
ones with deep cuffs, the long ones with ones with deep cuffs, the long ones with
straight bands, and the threequarter ones finished with bands. It consists of
the yoke and the skirt portion, which is gathered and joined thereto. When th completes it. The sleeves are full, and whatever the length or the depth of the
cuff. they are gathered at their upper cuff. they are
and lower edges.
and lower edges.
The quantity of material required for
the medium size is $9 \frac{1}{2}$ yards 27,7 yards 36 inches wide.


## One-piece dresses are being this autumn by the younger they unquestionably possess

 they unquestionably possessmany practical advantages. includes a little yoke that can be of one which is trimmed to kive the princesse
idea. In the illustration from one of the pretty plaid materials, from one of prety plaid materials, lace. Plainer dresses, however, can be
made by using tucked tafeta made by using tucked taffeta for the
chemisette, and the material of the dress for the bands, with some finish of sou-
tache or other braid. For school and tache or other braid. For school and
occasions of the sort, chiffon Panama clothe and materials of similar weight are much to be commended, and the
plaids of the season are unusually handsome, while they are always becoming to
the younger kirls, and always The dress is made with bouse and skirt joined to a belt. The blouse is
tucked and made over a fitted lining.
leeves are trimed ater a sleeves are erimmed after a precty and
novel manner. The skirt is cut in sereen gores, with the trimming extended over the left front seam. This feature could be omitted, however, if something very
simple is wanted, and the trimming simple is wanted, and the trimming be
allowed to finish at the belt. The closing is made invisibly at the back. The quantity of material required for the medium size ( 10 years) is 7 t yards
$24.6 \dagger$ yards 32 , or 44 yards 44 inches 24. 6 t yards 32 , or $4 \downarrow$ yards 44 inches
wide, with $\ddagger$ yard 18 inches wide for the chemisette, if yard 27 inches wide for trimming.

The above patterns will be sent to any
subscriber at the very low price of tein
cents per pattern. Be careful to give cents per pattern. Be carerul
Correct Number and Size of Pattern Correct Number Whe When the Pattern is Bust
Wanted. When
Measure youn need only mark Wanced. Moen only mark 32, 34, 36,
Measure, you need only
ar whatever it may be. When Weiot or whatever it may be. When Waist
Measure, 22, 24, 26, or whatever it may Measure, 22, 24, 26, or whatever it may
be. When Misses' or Child's pattern, write only the figure representing the
age Allow from one to two weeks in age. Allow from one to two weeks in
which to fill order, and where two numbers appear, as for waist and skirt, enclose ten cents for each number. If only
one number appears, ten cents will be sufficient. Address: "Fashion Department,"' "The

HOW TO BE BEAUTIFUL You must suffer to be beautiful, accorcwriter. There seems to be some truth be believed. She has revealed the secrets of her mistress's boudoir, or, rather, torCure chamber. The lady herself ts now
beautiful, but one wonders that she is still alive. For months she lay flat on her back on the floor, motionloss, with
her arms close to her sides, during several hours every day. This was, it aprest of the day, for the same period of time, she sat on a high stool waving and rocking the upper part of her body
backwards and forwards and from side backwards and forwards and from side
to side unceasingly. By this process she is said to have acquired a ${ }^{\text {a }}$ statuesque
throat and a sylph's waist.
The lady's nose having a soaring nature was corapplication day and night for months of a spring bandage. One nostril was originally larger than the other, so she
wore a small sponge in it for a year. wore a small sponge in it for a year.
Her cheeks have been fillod out
and
rounded by injections of paraffin.
Her rounded by injections of paratfin. Her
ears for months were compresed against
the side of her head by springs, while he side of her head by springs, while
heavy weights were attached to the lobes to produce the required elongated shape
which has been successfully achieved. which has been successfully achieved
Having suffered this complicated martyrHaving suffered this complicated martyr-
dom for a year, the lady, as already stated, is now beautiful

## DRAGGING CHILDREN

1 had in my charge at one time," said
prominent New York doctor, "a child Who had almost lost control of the
muscles buscles of one of the legs, 2 difficulty
brought on, as I ifrmly believe, by the habit the other children had of taking
the little thing out with them and hurry the little along in order to keep up with ing it along in order to keep up with
the other youngsters with whom they
were playing They had strict orders were playing. They had strict orders
not to leave the baby or to let go of its not to leave the baby or to let go of its

hands, and as a consequence it was dragged and pulled along in the most frightful fashion. I believe that a great | many cases of rickets are brought on the |
| :--- |
| this habit of Tulling children by | spine and must be productive of unplea ant, if not dangerous, results.

He was a waif from the slums, says Harper's Magazine, having his first experience of the real country, through the
kind offices of the Fresh-air Mission: They gave him a new-laid egg at breakInst as a great treat, but, after ond spoonful, he put it quickly aside, and do
voted himself to the bread and butter. "Why, Pete," exclaimed the matron in charge, "don't you like your egg?" Co. Ma'am," he replied deprecatingly

OCTOBER 29. 19018
The Ingle Nook


One of Ireland's Beauty Spots your especial epidermis, with frostilla, soft and how speedily they will become many other proparations on the market
which are just as good as these; and it may be takex as a rule that what is also.
Again, there is no denying the fact that Again. little protection will do a great deal towards keeping the complexion attracheaded, we must expect to become all, there is no necessity for dong so ;
it isn't much trouble to put on a big it isn't much trouble to put on a big
straw hat on going out of doors-or one of thore mifty little sunbonnets which sit just on top of one's hair, instead of
coming down about the ears as the oldfashioned kind did. In winter, a chiffon
or fine wool veil does much to protec or fine wool veil does much to protect
the skin, and forms a comfortable screen
and againgt the biting frost as well.
A common saying is that tan is be A common saying is that tan is be
coming." and that it is a "good healthy color." the first limitations-tan may be becoming to young faces, especially it
surmounted by dark gipsy-like hair-the surmounted by tare at all. Mere tan is
second is nnt true
never of itself, in fact, a sign of good health, although the conditions which
duced it may also have induced good health It is due, on the contrary, to a mer
darkening of certain pigments in the skin to form a covering to keep out the
violet rays of the sun, which might other wise do the body harm. While, there
fore, tan may help to maintain heald Yore, tan may help to maintain health, - other covering would do the work a You see, I speak feelingly on the sub
ject of tan. May I add that it is no
without reason without reasonery is bevention is better tha theory that preven trip by water this summer I acquired a hide (never call it complexion 1) like mahogany, which ha
stuck closer than a brother ever since and I don't like mahogany a bit, excep an drawing-rooms. I have managed to
get rid of the hardness, but the tan is get rid of the hardinss, bas proved ver
obdurato. Iemon juice has.
slightly effectual. so slightly, I fear, tha slightly enectual, so sit myself can notice the differ ence. . Cannot some of you "help $m$
out ?.
varied wardrobe and a snug sum of boy, and I was always afraid it might money. But I must not stop by the fall down before I could go and do like-
way, because I want to tell you about a wise; but there was no need to fear, be wart of Ireland, and there is more to cause, although that was nearly a cen-
part say about that than you have time to tury ago, the old carelaker told us
was in exactly the same state of
wead or 1 to write. read or 1 to write.
We went south from Dublin past sev- preservation now that it was then, and eral fashionable watering places. and still it looks quite as substantial as the beat
itiful hills you can see from its summit. south through the beautiful County of tiful hills you can see from its summit
Wicklow, with its celebrated Vale of This tower is part of an old castle said Wicklow, with its celebrated vale of This tower is part by Strongbow on the Avoca, where "the bright waters meet;" to have been built by Strongbow on the
its picturesque glens and watertalls, site of the stronghold of the King of


The Town of Ferns, Co. Wexford.
 Murroukh thathoor ot hang Darmot Mo. Che streets of Ferns, near the site of this
castle. In another part of the town is St. Edan's Cathedral, built originally by
St. Mogue, in 632 A. D. It containg bien St. Mogue, in 632 A.D. It contains his
remains. Near St. Edan's well, and also the remains of an old
Abbey. A short distance away, on the Rectory lawn, are the remains of St.
Peter's Church, built by Dermot Peter's Church, built by Dermott Mc-
Murrough. The present rector, Canon Gibson, takes a great deal of pains to preserve everything of interest, and has
written a history of his parish. found very interesting bacisus which we tains in its lists of wardens of more than a century ago, not only the names of our own ancestors, but also those of many y everyone in that part of Ireland has some friend in Canada. One had a sister in Toronto; another two sisters in Essex Co.;
and so on. Ferns is a typical Irish village. A few thatched cottages are left, but that style of building is fast disappearing. Our Fach room might have been built by itself, and seemed to have a stairway, or part of one, of its own. To sit there amid its lovely old furnishings and listen
to the ticking of the tall grandfather's clock, and see from the window the odd little donkey carts and the low-thatched one's self slipped way. one might fancy one's self slipped back a century or two;
but the honk of an automobile soon brings us back to the present. I would like to tell you about Ennis
corthy, and the climb up Vinegar Hill, corthy, and the climb up Vinegar Hill,
and historic Waterford, and lovely Cork, "on the pleasant waters of River Lee," and Rlarney, with its wonderful stone.
and Killarney, with its famous gap of and Killarney, with its famous gap of
Dunloe, and the purple splendors of ite mountains, but my pen has run away mountains, but
with me alread
another traveller." I have long wished to go to Ireland,
and to England and Scotland, and "the most envied you your trip when reading
your letter. Still, there are so many your letter. stint, therer ane delightful too. Have any of you ever been at the
Kawartha Lakes, or at Lake Temagami? If so, I should like very much to hear about them. The pretty soft Indian
names have fascinated me for so long names have fascinated me for soo long
that 1 think $I$ muit yield to their mast netism some day, unless advised otber-
wise-and it would be so provoking to wise-and it would be so
go and be disappointed.

CHURCH MADE FROM ONE TREE. According to a tochnical paper, a large
Baptist Church that stands in the City Baptist Ohurch that stands in the City of Santa Rosa, Cal., enjoys the distine-
tion of having been construoted entirely from a single troe. of course, that includes the woodwork of the structurr. and shingles were cut was a giant Calland shingles were cut was a giant Cubl-
fornia redwood. A considerable quantity of the lumber was left over attor
the church building was completed. The the church bullding was completed. The sudience room cappable of neating 800; parlor capable of seating 80; a pastor's study $14 \times 20$ feet; a vestibule and toilet-

## IN THE VERMACULAR

The girl had been three weeks in the employ of an artistic family, but her
time had been by no means wasted. Her mistress wae giving her instructions ac to the dinner.
't forget the potatoes," enjoined ". No, ma'am," was the reply. Wil you have them in their jackets or in the

Uvedale Price once chose to stay so in his ""Table Talk") that 1 began to think he would never go away. so one day I ingeniously said to hin "You must not leave me bellore the
end of the week; if you insiat on gotiog end of the week; if you insise on gotag
after that, you may: but ceertainly mot before.

## 1664

I'he Roundabout Club

## 

And now to work. Last night, while
sitting with my toes on the fender, and sitting with my toes on the fender, and
a British weekly in my hand, I came up-
on the following, written by an old Countrynuan who had previously lived
for ten years in North-eastern Ontario: for ten years in North-eastern Ontario:
". The Canadian cultivator is a glorified peasant-proprietor. Someone has said
of him that. On the whole, he is more prosperous than his English brother, but
ho works a great deal harder, he has he works a great deal harder, he flithy
less amusement, and he drinks fill
tea. And this ahout sizes him. ". He does not always confine his po Ontario the consumption of alcohol is very small. In the towns, the curse
alcoholism is prevalent. sometimes to alcohoism is preva, but the country is
very great degres
free from it. The Canadian cultivator free from it. a bad sort, so far as my
is not at all a
experience of him goes. He confines himexperience of him gos. Ho cond and word,
self, and limits every thought
within a narrow circle, and he has many Within a narrow chitics of the J Jacques
of the chalacterist
Grippe-Sous ' of our neifhbors, but this is not peculiar to the Canadian cultiva-
tor. The Finglish farmer, of this neigh tor. The at any rate, shows the same borhoos, at any rate, He has to work
unpleasant traits. He
hard for his money, and he makes the most of his advantages at the great game
of ' grab.' Many of the Ontario farmers of 'grab.' Many of the Ontario farmers
have a great contempt for the young
Finglishman who comes to Canada to pursue agriculture, and it must be ad-
mitted that the latter deserves it, by mitted that the latter deserves it, by
assuming airs of superiority to which he
is not entitled. The folk from the Old Country are not what they used to be,' dian cultivator breaks down early, and
suffers from affections of the alimentary organs, in consequence of overwork, hur-
ried meals, and an unwholesome dietary. He consumes largely of certain kinds Triters and hich delight his palate. Pork is h
chief meat, and the tea, as aforesaid, hi chief meat, and the tea, as aforesaid, his
chief drink. The Canadian newspapers chier arink.
teem with advertisements of quack medi-
cines of all kinds, and these form part of the stock-in-trade of every little vil-
lage store. As a sportsman, so far as lage store. As a sportsman, so far as
my experience goes, the Ontario farm-
er, is an arrant pot-hunter. I once made an expedition into the woods with a small party of these men. They shot, or
tried to shoot game out of season, and they tried altogether for the pot. I watched
fished of them. The fish were rising in
one of the neighborhood of his line in a deep
bay at the mouth of a stream discharg
The woods ing into a beautiful lake. The woods
around were tinged with the gorgeous
autumn coloring. My fisherman was exautumn coloring. My fisherman was ex-
are the fish not taking his bait. - Wish I had a pinch of dinnamite, said he. You "Wuldn't
observed. "Would
with much gusto.

## the others expressed himself lost.' He

himself los
fore suppe great uneasiness prevailed in the camp
(Williama
and the brother of the absent one. you never see him again. However,
morning I paddled my canoe across lake, heard a hound, and descried
absent one contentedy walking back camp. He had lost his bearings
camp
nimbt came on, hut, finding himself night came on, but, finding himselr
the neighborhood of a lumberman shanty, he had spent the night the
comiortably, while we did the worr ing."

because, in the parrance stuff." It den. this is i. iteresting stand quite well written. and it makes point

THE FARMER'S ADVOCAIE
 British Isles might co comfortably
dropped-and judges it aecording to the
evidence of one small, presumablyy back-
ward locality, nor does it make any
attempt to explain toow lomg ago that
 allowance whatever is mande for che
marvellous growth in idealls and educa-
tion of a new land. Whemever that "ten years" was, in Whatever locality, thinking only of universal grabbers, s; and we hand mot one litful in our vomance or love of the beauti-
stolid. sordid . make
in ups, as evidenced by our minmting of the
of dinnamite "i in the midst of than that.
autumn maple woods. More than we made murderous assaunts on the
English language: "e meat end got lost ". ocasionally. ....And such a
we were then, in ome small towwship o At the same time, we must mot shut tions, such sordidmess, such such condimay exist even yet in certaim localities,
or even amox́g certain familioes living in
the heart of neighborthoods otherwise a cultured and intelligeat as the most fas
tidious might require. Nor must smugly fold our hands on our boooms, roll up our eyes, and flatter oursselves pecause we are mot as "this Publi-
we need expend mo frarther energy we need expend mo further energ
rts towards that calluare and in elligence which he liacks suct Pharisaism would, as a matter of fact, pro
claim our want of bothe. The man claim our want of motin feels that he
real intelligence mever the
nows enough or cam get deeply enough into the reasoning of thimess.Among all men is he the most umassuming, nor is
his n.o esty affected. He is open of mind. thinks little of himeselt, yet is moved as far as the EBast is from the
West from the .O "umblemes " of the
Wren Uriah Heap type. Hle realines that he
has a place to fill ill the Universe, and that he must fill it to the best of his
He rility. Healiaes. also, that there
and
$\qquad$ which he would explore. for knowl-
sake. has never edge sake, has mever a fart her bouning. how can he find time to be narrow how can be find
self-seeking. or
ow conceritat.
O grow conceited ?
Now. as the Roundaloout Club of ". The

 over Canada, from British Columbia to
Cape Breton and Newfoundland-we Cape Breton and Aewfoumdametw towards giving an impetus to this never ceasing, progressive movement toward the larger life. We have our plans her
at headquarters: you maxa bave some
$\qquad$
Ine shall be gilad to hear receive letters on amy sublifect which may
intemo.
$\qquad$ this Department to the "Roundabou
Club." Farmer's Advocate Loodon, Ont Club." Farmer's Advorate London,
The Club will appear fortuightly.] On the Popular ""Young Man a It gave me. great pleascure to read the
artile on o. The Girly Question." from
the authorship of ". Penson." "hich appeared in your paper some time ago,
and to see the subjiject revived by .. On in Farnest,". as well as by ... Elaine in earnest on this topic., and add my flew words of testimony. I w y the fair sex. But, better yet, tasted of married tifee to participate in
discussions of this mature. What warnnys to the hasty, or, on the other hand encouragement. they moystht give ", the they so enwrapped
that they forget has the charut of
days passed away

[^0]$\qquad$
hglow with love to chiplu... that hoe
disposition, be able to make the home
sace of sunshine and rest, where
and lace of sund heavenly retreat
husband finds a
the worries and turmoil of the day
the should have a, good education, tah. She should have a, good educatur,
an interest in intellictual culture, be
musician, and, above all, have a goul nnowledge of household science an
knold also know hou dressmaking. She should also know ho
to practice economy. She must not to practice economy. She must not
a flirt or a gossip. One of the quali. ties that 1 should insist upon is clean as well as her surroundings in her home. And I believe that a woman cail hes
dressed tidily under nearly all conditions, and do so quite economically, if she has
some knowledge of dressmaking. She some knowleage of of ood judgment and
should be possessed of gossociations, for common sense in her asssire a virtuous
even the vilest of men admir She should woman, and seek her love. She should
show a spirit of independence towards show a spirit of independence towards
the attentions that may lie paid to her the attentions, until she has found the one in whom she can confide her love,
and even then restrain her outward exand even then restrain her outward ex-
pressions of love until proper relations pressions of lo in her choice warrant it. What sensible young man cares for the girl who submits her love to the
once, without frst taking time to investigate his integrity and character? Scott
said, ". The lover's pleasure, like that of
the her, is in the chase, and the brightthe hunter, is in the chase, and the bright
est beauty loses half its merit, as the can reach it too easily." Above all, she should be an earnest an
devoted Christian, without which all he devoted Christian, without which anght.
other graces would count for naught.
Coldamith wrote. I I chose my wife as she did her wedding-gown, for qualities
that would wear well." The Christian's qualities are those that wear well. ing a high ideal. How would this ideal come up to the mark. "The ideal wo
man should have the faith of an Abra
$\qquad$ the cooking qualities of a Martha?" "TEDDE." [We are glad that so many of our
correspondents look at this question as to whom one shat, in indeed, no laughing
serious $y$ It is, ind to which one may step easily enough, he lid fits rather too closely for comport a worse fate be imagined than to be obliged to spend a lifetime, in the close connection of married life, with one whom even uncongenial? We are glad, too, that an agitation for more common men and young women has been started.
No one would put a bar up against good No one would put a har up against good
wholesome fun-such should be encour-
aced-but when conversation degenerates aged-but when conversation degenerates
inton mere giggling and silliness-often so
silly as to be on the verge of sheer idiocy - it is surely time to call a halt,
One need not necessarily be a a stick,;

 Dear Editor,-I am glad the "Girl

Question "and the " ${ }^{\text {Boy }}$ Question " is open for discussion in your quest valuable
magazine, and especially at this season of the year, whecially during the season and study. I was much interested in "Penson's" article, in Sept. 10th issuue,
I am of much the same mind about evening parties, and have often come
from them feeling that it was all a vain
talking sound sense, and they will bog
sure to find many others just as willingl But why the timidit
Bhink it 2
think it is because of fear of ridicule or ing their minds on subjects which are of interest to all, yet are left entirely
out of evening programmes at social Eatherings. usually.
Now, as to what are the qualities a young woman most are the qualities a in a young
man. In a few words, I think it is strength of character. with a noble life-
Iv
purpose, and an aim to cultivate such a IV Purpose, and an aim to cultivate such a
li. Character and high sense of honor that
li. his every action would be beyond re-
, CTOBER 29, 19018 heart and mind, and
 cially when calls and entrealing conle cone why he amonk the real. Let from ail sides tio marriages are unhanny w.... Wi.. noblicr, the more refining society
sometimes think
 to each other oo not truby ind should love. They perhaps lecome fasci- them. Do not look for perfection or
nated with each other's qualities,
and .Who lives me. must have a touch of nated
think it
in love; and possibly saarched their own hearts,
hey were not truly satisisid. hot that perfect understanding of each other which is so necessary for
nutual sympathy and happiness (Do you not think that the general re-
(uctance of young people to take part in luctance of young peopt when at evening
sensible conversation
parties is due to to the fact that so many \&t them, literally, do not "know snough," and are not interested in
enough things to find such conversation enough, The young man or young, woman who does not rad the papers,
wnd so has no idea of anything that is and so has in the world, who does not
going on in the what so has that great feld read books, and so has that great ibld
of conversation cut out who has no tad, such as photography, or sports, or
traveling, or art, and so must be sil ont
tor
 no resort except silence, gossip, or silli-
ness. . . What do you think 7 ]
The Girl Question. I have been reading with much interest
 thinking the subject too hard for such youth as 1 am. 1 am on the world in
but have seen something of have travelled but have seen sountry; "have travelled
both ctty and cond
oome and expericneed much." I am also one of those unort charges with actin
whom " Pensons"
 Codies' company.
Now, while 1 agree with him that many Now, whine ladies are giddy; that many of them are shallow. they all are. We have to-day as noble, as true, as whole
souled, deep-purposed girls as the thorld


 some of them. They
found in public ways.

$$
\begin{aligned}
& \text { Full many a geen of purest ray serene, } \\
& \text { The dark, untathomed caves of ocean }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the bear } \\
& \text { Full many a fower is born to blush un- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { seen, } \\
& \text { And waste its sweetness on the desert }
\end{aligned}
$$


 good cheer. God has his purpose
and only asks you to be " swoo

$$
\begin{aligned}
& \text { Nanly not of wasted swetness, toin } \\
& \text { Talk } \\
& \text { sweetness never was wasted }
\end{aligned}
$$ pessimistic: but we must not let out our

gelves do so. Let us revolutionize our

 to please the one sis ane arthrecther innex-
 bus to please?
girls spoil the men
git
> you not detend yoursolves against
ferce attacks upon your demeanor ? nerce attacks. "Pensons," I am nol
About ideals.
satisfered to hear you say that our ideals
 us get our ideals
the
vandeve
are

THE FARMER'S ADVOCATE.

OPERA GLASSES, NOT GUNS

If the small boy were taught to think

BELIEVE"-AN EVERY. DAY
BELIEVE -AN
I believe in my job. It may not be
bit it is mine, very important job, but it is mine. Furthermore, it is God's job for me. He has a purpose in my hile with reference wher fore No other fellow can take my place. isn't a big place, moldod in a peculiar way to fill a peculiar niche in the world's work, I could take no other man's place. He has the same claim as a specialist that I make for myself. In the end, the man whose name was neve
heard beyond the house in which h heard beyond the house in which
lived, or the shop in which he worked may have a larger place than the chap whose name has been a household wor job. May I be kept true to the task which lies before me-true to myseli and to God who entrusted me with it.
I believe in my fellow man. He mas $\begin{array}{ll}\text { I believe in my fellow man. } & \text { He may } \\ \text { not alwass agree with me. } \\ \text { lod }\end{array}$ sorry for him if he did, because $\mathbf{I}$, myself, do not believe some of the things
that were absolutely sure in my mind a dozen years ago. May he never lose dozen years ago. because, it he does, he may lose faith in me, harmer, and it hurt him more than the former, and
would really hurt him more than it would hurt me.
I believe in my country. I believe in
it because it is made up of my fellow it because it is made up of my fellow
men-and myself. I can't go back on men-and myself. be true to my erbed. If it isn't the best country in the world, it
is partly because 1 am not the kind of a is partly because I am not the kind of a man 1 should be.
I believe in my home. It isn't a rich home. It wouldn't satisfy some folks. but it contains jewels which conn world. purchased in the markets of the worlo.
When I enter its secrit chambers and When I enter its secrot cits care, I am a lord. Its motto is service, its re ward is love. Thereh int its place, and heaven can be only a larger home, with tender. possess. The past is of value only an it can make the 1 of to-day fulier and treer. There is no assurance of to
norrow. I must make good to-day. Charles stelzle

THE HABIT OF NOT FEELING WELL Few people realize that their gllmente
are largely sell--inuced. They get into
a habit of not feeling well. II Ithey git
up in the morning with a silight headhabit of not
ap in the morning with a slight head-
anche, or some other trifing tndivpoti-
cion, instead of trying to rise above this tion, instead of tryikg a positive ploasure
condition, thy teke and
in expatiating upon their feelings to any in expatiating upon their feelings to any
one who will isten. Instead of combating the tendency to illness by dill dog
the lungs with pure fresh aif, they doeo
themsolves with ""headache tablots," or themselves with "headache tablots" "curs" whatover ill they think they are suffering
from. They begin to pity themselves, from. They begin to pity themselves,
and try to attract pity and sympathy and
from others. attract pity and sympathy
Unconsciously, by dotalling and dwelling upon .theif yymptome. ing and dwelling upon ther sugestion of illness by a whole army of thoughtil and lears and images of a dos's work in
they are unatted to do a dis they are nes or offices.
It is saidd that man is a lazy animal. We are all more or loss prone to in-
dolence, and it is the easiest and most natural thing in the world for young people to accustom themselves to lying
down or lounging on a mofa because they down or lounging on a
think they are tired, or not well. Much so-called "invalidism" is simple lazines lostered and indulged from chilithood. There is a great danger ghat siro, and,
are delicate while growing up, lounge around the house and 110 down
whenever they feel the least bit out of whenever they feel the least int out form a habit of invalidism sorts, will form maturity. How often When they reach iril "brace up" at once
do wee such gir whenever anything happens which inter-
esta or excites them ! An invitation to ests or excites them a ball, or any other
 tonic. For the time being an in-
stantaneous cure is effected. They are stantaneous cure is eincetco. aftor the ontor-tainment.- S Success.

Elsie-Rubby, when you grow up what
kind of a wife are you going o marry?
Bobby (1promp


POWER LOT
A Story of "Down East"
by sarah mclean greene.
Rishts of pubbicatton securred by the Wm . Weld
CHAPTER XXII.-Continued.
And the deuce of it was-see what
a pair of haggard eyes and a score
or !-he was not one bit oi a sim
pleton to her any more. I believ true, that illow and fall had sent hin
up instead of down, after all. He was a man glorious from head to foot, a sort of veteran, grave-faced
square-shouldered, plastered up though quare-shuuldered, plastered up thoug met her look straight
"Miss Stingaree,"
met with an accident.
But on on vord as a man, it was not on $m$. never touched a drop."
" I'm witness to that," said I. "Rob's word does not need any
witness," said Mary, very softly very gently, to us both
Tears of triumph and joy sprang
o Rob's eyes. And I, too-well, I
was content, as I trudged home alone
nearned lady, and above all flesh, was
leark mortal, after all. How sweet to ecstasy. that thought might be $t$

admiration and amaze.
For me, it is all a $\qquad$

OCTOBER 29, 1908
Current Events.

| Central Europe last week experienced the coldest weather since $1 \times f i 6$. <br> Two rich silver strikes have been made within the past fortnight on the Montreal River. <br> Eleven hundred persons were killed by the recent typhoun. near Changchow, China. <br> The first school of aeronautics in the world has been established at Columbia University, N. Y. <br> Seventeen Sufiragettes were sentenced to terms in jail in London last week because they refused to pay fines for inciting disturbances. <br> Prince August Wilhelm of Prussia, fourth son of kmperor William, was married last week to the Duchess Alexandra Victoria, of Schleswig- |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  | Holstein.

The Government at Pekin is about powers, and restrict his authority to
religious matters in Thibet and Mon golia exclusi
The Mad Muilah has declared his intention of maling war in the carly future. Several regiments of British troops have
been desp;atched to the spot. A proposal to establish telegrams at a peuny a word throughout and
British Empire, will again be ad-
vanced at a meeting to be held in the Royal a colonial Institute on NoMany persons lost their lives during
the forest fires in Michigan last week the forest fires in Michigan last week.
Forest fires have also destroyed an Forest fires have also
incalculalle amount of timber in
Pennsyluania, New York, and ManiPennsylania,
toulin Island

A BOY'S COMPOSIIION ON WHIT "Mr. John G. Whittier was the son of
his father and mother, John Whittier, who was a Quaker, and that is how he
got to be a Quaker. Quakers do not fight so he had a very dull boyhood on
farm where he milked cows in a barn without no doors from which he got a
delicate constitution although he lived delicate constuution He did not like farming and was not much good a poet. H arst poem was wrote and published kno
beknown to him and he did not anything about it until he saw it in paper printed by Hm. Leyd ande the Whittier farm to see who had wrote a poem lite that. This made
Whittier resolve to write more and better poetry and he went to an academy in
Heverhill to lea'n how to do it. He Have shoes to , lay for learning to be a poot. Then he went to Boston and was
nothing but a voot from that time on. He was an anti-slavery man and nearly got mobbed and egged and he wed to
poems on everything that happened to
him was a very calm and peaceful
Ho him. He was a very calm and peacetu His
man and he never got marriod. His
maiet poem was 'Maud Muller.' He made chief poem wha his poems out of his o up most of his like The Rarefoot Boy
head but poems like of his own head en
did not come out of tirely. He wrote thousands of poems.
and said afterward he wished he hadnt wrote so many. $\begin{aligned} & \text { I guess most } \\ & \text { when they get to be eighty are sorry for } \\ & \text { whit tier has been }\end{aligned}$. lots they have done. Aherican poet ex called
cepting Longrellow. No one seems have taken is the best known of our
Wilcor who is the write th lady poets but she
same kind of poetry Longfellow and $M$
This is said to be be whittier wrote. This is said to be be cause the American their poetry to
and folks like even different from what it used to be. was a horn poet' so it was

THE FARMER'S ADVOCATE WILD-FLOWER QUEST IN THE
 to the bleak, timberless Northwest, where
summers are generally given to fog and
rain, does che quest lead.
Seward Peninsula, which is north-
western Alaska, covers more than 22,
oot of Alaska's 600,000 square miles. wester of Alaska's 600,000 square miles.
onn this area, inseparable in the popular
In
mind ifrom perpetual 1ee and snow, grow mind from perpetual 1 ee and snow, grow
in riotous profusion aoout 116 varieties
of wild flowers and seventy-five difierent kinds of grasses, while fern, sea, and
lichen mosses are without end. Few are the wild flowers of California
or the Middle States that ha.e not innying hills, besides many species un-
inlassified North.
Where has Flora such a bed as the
tundra? Running parallel for miles tundra? Running parallel for miles
with the beach, the tundra stretches back from Nome four or five miles to
the foothills, to be lost in the Sawtooth Mountains, in whose shadows
nestle volets, which recall with a sigh
the remoteness of far-famed Parma. The tundra is decayed vegetation. Scrape
off the surface, and rich black soil is revealod, soil that lies in varied depths ice of centuries. When wet with inces-
sant rain or melted ice that oozes up as
the continuous summer sun burns down the continuous summer dangerous bog. Many is the "musher" or horse crossing the country that has
in its slimy embrace. EEverywhere the
tundra is broken by natural lagoons tundra is broken by natural lagoons,
and of late by man-made ditches in the interest of mining, for there is not a foot
of the tundra that is not staked! In dry seasons, as was the summer of
1906 , the tundra crackles under foot liki
ingrient burnt paper. Its chiel ingredient is
reindeer-moss. Wet or dry it is Flora's domain.
dowing drifts, this unsheltered, unforested background of our most northerly seaport-
Nome-yields tardily to spring's wooing. Nome-yields tardily to spring's wooing.
To learn the haunts of the earliest flowers and pluck them from their ice-bed
before they cease to bloom, one must have lived three years in the Peninsula, seen the ice "come in" and "go out. his
Long before Jack Frost removes his fetters from Behring Sea-for these arctic
waters are hermetically sealed eight waters are hermetically sealed eight
months of the year-and while the snow is sweping in avalanches down the
mountainsides, whirling through creek and river beds in mad, joyous dash to summer seas, many of the The he life is
blossom and are no more. The the flower-hunter who would gather The fiower-hunter whoms nust be of with springs and dogs not later than the mid-
sledge and
dle or last of May. Otten so perilous is their abiding-place that sledge and
dogs are abandoned on the trail to hunter wades hip-deep through miles of slush and water. flower-hunters of Nome is Mrs. Carrie
Power, who aspires to do for the flowers Power, who aspires a dor a similar ardent
of the arctics what a
Nature-lover has done for the flowers of Nature-lover has done for the flowers of
Colorado. That there is no place for Power avers. The prime requisites for
comfort and expediency are hip rubber boots, plenty of blotting-paper, and
substantial lunch. As an appetizer and a tonic there is nothing to excel an Many of the earliest spring flowers are
saturated with moisture absorbed so saturatel beds that they require im-
from their icy beds and much blotingmediate pressing, and much ofrefore paper are ready to be put in a book and tucke the dor-team ""mush" hack to camp.
to then this excessive moisture is thor-
$\qquad$ dog-drivers. Corra,
is often radically changed, giving litt'e
trace of the glorious hue it displayed
when, pulsating with the sap of the arc-
tics, it basked in a sun that never gooes
to bed during four riotous months. The

crusted divides, is the star-of-day
(Pulsatilla $\begin{aligned} & \text { patens). It } \\ & \text { the rocks, and amons among a shingle bright }\end{aligned}$
and
the rocks, and shows a single bright
bue flower-with numerous black stamens, but entirely devoid of calyx-atop a slender stock which springs from a brown
stump. The buds are not unlike tiny stump. The buds are not unlike tiny
balls of wool, while the entire plant is overed with fine, silky white hairs.
ons base of the flower Half-way from the base of the flower
hree deeply-lobed leaves form a whorl. From the flower's white heart comes the Frame "star-of-day."
Another of the earliest beauties is
an bird's-eye, common to many of our
States. When the snow vanishes, it States. When the snow vanishes, ira.
blooms in the dry knolls of the tundra.
Every color of the rainbow is the bird'sEvery color of the rainbow is the bird's-
eye, from pure white to deepest lavender and warmest pink, and in growth is not unlike the mustard-plant, the stalks varying from six to ten inches in height
It grows largely among scrub willows and in sheltered places along the creeks,
and blossoms throughout the entire sea-
A less beautiful but fragrant blossom
which precedes the "star-of-day" in which precedes the "star-of-day" in
fruition is the Mayfower. In warm fruition is the Mayflower. In warm
hollows along the creeks beyond the tun-
dra, and occasionally on the edge of the hollows along the creys the edge of the
dra, and occasionally on
tundra on the beach line, close search will. disclose it toward the waning of May. It grows from a bulbous root,
stands erect, is about four inches high, and has a coneshaped head. The flowers are a muddy white, and cluster
thick reddish stock, with $a$ single lea! two inches below the flower-head, and a second leaf at the base of the stalk. The short, pointed leaves of dull red com-
pletely encircle the stem, and the entire plant is covered with a white lint or wool. It is a curious fact that even as Nature provides the native dogs with heavier conts in wirst flowering plants covered with a protecting lint, wool, or hair. There are seven varieties of anemone.
On the beach, in the foothills and tundra back of Nome, Mrs. Power, who came into the country with the gola
atampede of 1900 , has discovered six species, unclassified and unknown to botanists. Like the anemone of the sierra ties of the arctics love the cold. With frigid passion they are wont to burrow
their way through banks of melting sheir Way the yellow and white flourish along the north bank of Dry creek and
the sides of the hills, while several other varieties are found on Anvil Mountain, at whose base is the creek from which was taken the Peninsula's first grea gold me most beautiful species of anemone
Thow in great mats upon dry rocky gides of the mountains where soil is scanty. Severed from its native fastenings, a
iwo-foot mat filled with hundreds of blossoms has been preserved for weeks
simply by laying it upon moist ground. simply by laying ower of the finest arctic anemone
The fo
is one and a half inches in diameter, is one and a half inches in diameter,
with petals varying in number from six to nine. In color it is pure white, with numerous yellow stamens, while the calyx is green, and spreads of the star is covstars. Each section the point with brown hair. The fower rises on a slender
stem three inches from a mat of dead leaves. The entire plant is summy, and
when crushed emits an agreable resinous odor. many varieties of butiercuns, or cow-
slips. and the katherink of them for the herbarium calls not only for rum boots,
but the hazard of dangerous slips into the slimy. sponery tundra. At the same time the marahes are rexal
in iris bloom. So luxuriant is its growth throughout Alask that it is be ing advocatad for the Territorial hower
In shane it is similar to the iris of In shane it is similar to the iris on
Callfornina. सrowe to a height of two and Califrnita. Reowa the diameter of the
a half feet, and
flower is from four to five inches. It is very fragrant. and in color runs th
kamut from deepest to palest purple and camut from deepest to
varied tints of yellow.

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 THE 1900 Wivister

Information about Minnesota 2o-page book, compiled by the State, do
 erty values, schoolse, churches and dowi or each county, and y. Mnnesoass splee b STATE BOARD OF ImMICRATION. Doot c. 2. State Contal st Pat.mers LEARN TO MAKE MIRRORS
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in with order, $\$ 3$.oo when range is delivered to you and in with order, $\$ 3$.oo when range is idelivered to you, and upon pay-
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The climax of Nature's irony in the guarded by hills ever hung in veils of Never have I seen forget-me-nots like which crosses the tundra from Nome on
arctics is the cotton-plant. Wherever deepest purple. In great bouquets it is unto those of the arctics. With stems its way to the kougarok country, to cotton blooms, declares the miner, ice is occasionally met in a miner's shack, the length of American Beauty roses which it ha kougarok country, not far below. One may trudge for while not a few housewives gather the their pastel coloring of baby blue and cess. Its ribbon of steel like the in
 breeze. The blossom is silky, dainty, bloom in alinormal splendor, as becomes fection.
 soed. From June until late August reign. It is an intoxicating joy for the quitoes of abnormal growth threaten to upon a leak in a Moonlight Springs pipa the tundra is white with the cotton-
plant.
Unlike the cotton of the Southern States, the fiber is short and soft, having more of the texture of silk than of cotton. The cotton-plant will, in all
probability. some day be the means of probability. some day be the means of
developing an Alaskan industry giving employment to thousands. To-day, howive a splendid sweep of immaculate thloom in a bleak, timberless landscape lower-hunter to gather great armfuls of
purple harkspur. bluebells, monk's-hood primroses, sweet peas, beautiful purple and red asters large as the most culti-
vated, lilies of the vallev, vated, lilies of the valley, liaby-breath,
yellow arrow, sage-rose, link and white yellow arrow, sagerose, pink and white fiance, but before which the mosquitoes ing. or dompestic use. Water is one of the arctic geranium. crimson rhododendren. The one inharmonions freak in the cents a fiva, whillon retails at twenty-five and giant firewed. all growing on the produce a fourist's catnogue.
an occasional tourist.
bose to super, has
boss to super, has a ba
fllued with wild fowers,
fitem or

## stlanting.

In August, when
berries ripen in the
mos arer where
pails, their gay-colo pails, theing gy-colo
with ooverene fur
witeone col or-not The e arctic bluelerry is ric
cious, than its kindred cious, than its kindred
while the salmon-bery is while the salmon-berry is
light as it it lits its royal
隹 trom a bed of autumnal-tinted leaves
tron wax-like texture combine the blue- and salmon-berry into
co delicious preserve. The natives bury
Ther a delicious preserve. The natives bury
then in the ground, markking the pace
with a cover of wiliows. There they troeere, and are take
eaten with seal-oil.
aten with seal oris
There is no subsoil in Nome. It has to be made from beach sand and tundra
decay. Pathetic are the attempts to grow flowers or vegetables, but where
there are women there will be fowers.
 garden. They are yenerally set outside
and raised trom the eround to escape
contact with ice beneath or the malamutes (the sledge
about in summer. At a midsummer meeting of the camp's its own club-huse the tear-ablo was
radiant with pansies and mignonette raised from seeds in three weeks, whilo
raise larkspur and monk'shood of the tundra.
lon the shore of Behring Sea t Wont to inger in awe and wonder belore
cabin whose larke many-paned window Was literally curtained with nasturtiumvines in gorgeous slom.
iFour weeks ago," said the Norwegian
.it mistress in proud, broken English, "I
planted the seeds can't see to-day for the blom.".
Unite was the garden encountered at Unique was the garden encountered at
Chenik on Golotinin tay, elighty miles troen drawn up on the bleakk beach, filled with sand and tundra siil, and covered
with window-glass. There Molly Dextor, the Peninsula's most tamous and bely
Eskimo, raised trom seed, not only fow ers, but radishes, lettuce, and celery, to as English-speaking landlady and unForging into the interior, down Solo
mon, Fox, Fish, or Neukluk rivers, with
 fir and cedars, where shacks of canvas, turesque log catins, the eyver revels in
Ranes is the cabin whose roor-gardens. Mared with floral and
roof is not coverod wate 1 have seen many a miner thrust his and pluck from his roof-garden ratistor lettuce, or onions for the morning on
evening meal, while the fowers peep in Window or door. $\begin{aligned} & \text { The demise ort bloom is as sud- } \\ & \text { Ten and complete as as its birth. } \\ & \text { There is }\end{aligned}$
 the ite has bevyn to gather in Behring
tea, not a trace, not a hint of Forras
t.
an effective threat.


I wasted time, and
waste me.-Shakespeare
mISERABLE WIFE A MISERABLE WIFE.
Mrofessor, 1 am afraid that soon
have to rent or sell the farm.
s. with is so miserable. I cannot carry
t wn without hiring, and hiring eats up It wh wh is so miserable. I cannot carry
all the profits.".
aing, and hiring eats up
I looked at the speaker admiringly.
He was about fifty, and as robust as a He was about fifty, and as robust as a
man of thirty. His whiskers were neat-
Hy trimmed, showing a full red cheek. away coat, and below his vest hung a
wilk fol) and heavy gold seal. I was proud of him. He was such a perfect
picture of the New York gentleman from
the rural districts that I wanted to imthe rural districts that 1 wanted to im-
print his picture on my memory.
"So your wife is miserable?". "Yes, kinder droopin', with a dry
cough and no ambition. She jest kinder
drays around the house and looks cough and no ambition. She jest koks so
drags around the house and looks and
peaked and scrawny it gives me the beave. It does, I swan if it don't."
"Naturally weakly, wasn't she? ?
"S. "She! Oh, no. When I married her
she was the smartest girl on the creek.
She used to work for father, and the She used to work for father, and the
way she made the work stand around took my eye. She was a poor gal, and
her industry got her a rich husband."
Herd he carelescly took Here he carelessly took out a gold
watch, looked at the time, put it back watch, adjusted the silk fob on the front of his nicely-fitting trousers.
"So she did well getting married on account of her industry?"
"Why, of course; she was getting only
$\$ 2.50$ a week, and she became mistress of a farm."" ""Excuse me; but how much are you worth now, confidentially you know; I
am a scientific man, and will never use such facts to your injury with the as-
sessor."
"Well. professor, I could crowd $\$ 50,000$ pretty hard."
"That is good. How long have you been married?"
"Thirty years next Fourth of July.
We went down to Albany on a little teeter, and I proposed the match and "How much do you suppose you have made in these thirty years?" I get the
"Hum-um-lemme see.
Davis farm the first ten years, then Davis farm the first ten years, then war prices for my cheese, and aquared up both places. Well, I think I have
cleared up $\$ 30,000$ since we spliced."
"Very good, indeed. And your wite "Very good, indeed. And your wiro
has been a great belp to you all this time?" you bet. She was a rattler. She took care of her baby and the mild
from twenty cows. I tell you she made
Why, we have had Tour children, and she never had a bired "Splendid! And you have cleared "Yes, easy." much has your wite made?" my wife," it know it. But what has she made? Yu say she was poor when you mar
ried her. Now, what has she made? "Why, by gum, you beat all. Why, shegether." Then she can draw on
"Do you? Then she has a your bank account? Then she has a
horse and carriage when she wants them? Then she has a servant maid
when she wants one? Then she rides
out for her health, and has a watch and out for her health, and has a watch and
chain of gold as you do? 'Is' that so?" "Professor, you must be crazy. No-
body's wife is boss in that shape. Who ever heard of such a thing,"'
"Now, look here. You said she did well in marrying rich, and I cannot see
it. If she was getting $\$ 2.50$ per week
ind when you married her, and had saved
her wages. she would have had $\$ 3.600$.
If cha had invested it, she would have If she had invested it, she would have
had $\$ 5,000$. Now you tell me she is and looks so bad she makes you sick, and she has no money, no hetp, and
get probably
nothing but a Scotch granite tombstone when she dies"" ${ }^{\text {"Professor. if you was a younger man, }}$ yone I would lick you quicker'n a spring
lamb can jump a thistle."
$\qquad$ some. Her hands are as hard as a a ocal
milk-can until sh
"Shut up, will you?"
".he has raised four children. One of hem is at college. One is taking music
lessons lessons at Boston. The other two are
leaching school. She is at home alone leaching school. She is at home alone, will end in a rosewood coffin and a firstclass country funeral."
"Stop that, professor, will you?" "'While you are still a handsome man, to make you look interesting. No
doubt you have been thinking of some doibt you have been thinking of some
nice young girl of eighteen who would jump at the chance to marry your thirty cows and $t$ wenty acres of hops."
"Professor, I won't stey here il you don't let up on that." "And your wife does not look we take your hired man and neighbors' girls to
meeting. Your wiff never goees anyyour hired man wife never gooe any-
meeting. Your wifo
where, so you do not get her a watch Where, so you do not get her a watch
like your own, nor a silk dress, nor a like your own, nor a silk dress, nor a
pony that she could drive, nor a basket phaeton that she could climb into with-
out a ladder. She never says anything, out a ladder. She never says anything,
so you have not got her a set of teeth so you have not got her a set of toeth
like your own gold and rubber, but she
has to has to gum it till her nose is pushed up
into her forehead, and her face wrinkles into her forehead, and her face wrinklee
like a burned boot. She never goes out, like a burned not dye her hair as you do yours, but it looks like a milk-weed pod gone to seed. She has to work in the
kitchen, so she gets no nice toothpick kitchen, so she gets no nice thumping
shoes like yours, but goes the shoes like yours,
around like a sheep in a dry-goods box."
."Darn my skin if I don't.". "Darn my skin if I don't-
"Ne, you won't; you will just let her work right along, and then you will
marry some high- lyer who will pull every hair out of your head, and serve "Professor, for mercy's sake do stop.
"When you know, and I know, that if your wife had a chance to rest, and had
nice clothes like other women, she would nice clothes like other women, she wo the
be one of the handsomest women in the "I swan I believe it."
".And old as she is, if you were to got "And, old as she is, if you were
out the carriage next Sunday, and drive
around with the colts, and tell her you around with the colts, and tell her you
wanted her to go to meeting with you, she would actually blush with pleasure." ."Then, Monday, if you were to tell her
that you were going to hire a girl, and that you were going sit in the sitting-room by that new nickel-plated coal stove, and
work on that new silk you are going to buy her-". "Prossor, that's me." a nickel wallet
". 1 . with steel clasps. and with five nice now twenty-dollar notes in it, and tell her to
do her own trading arter this, because you have got tired looking after so
much money." "I will, as sure as I live" in her eyes,
"And when the tears start in "And when the old blush comes out that and the same old blush comen you went
you thought was so nice when you would on that teeter to Albany, if you would
just kiss her-". "It's all right, professor. mould begin to
"Then, my friend, I wothing, by marry-
think she had made sometn think she had made someth
ing a rich man."
"You're right "You're right, old man.
"Thould no longer
"think you would have a miserable wife. Then you would no
but would be showing the mother of
your children how much you respected your children how much you respected
her for her life of devotion. Then she
would know that she was a parther in would know that she was a partner in
that $\$ 30,000$. Then, if you made your that $\$ 30,000$. Then, if you made your
will all right. and she had a good rest, will all right. and she time be an eligi-

$$
\begin{aligned}
& \text { be widow.". } \\
& \text { "Think so, proessor?" } \\
& \text { "t }
\end{aligned}
$$

"I know it. Woman is a plant that
wants sunshine. You have been leaving your lost her color. She has given up all hope of admiration and love, and is only waiting to die and get out of the
way. Suppose you were treated so?". "What, me! I am all right." "Yes, I know. Women pity you be-
cause you are tied to a sorry-looking cause you are tied to a sorry-looking
wite. Foolish old maids and silly girls whisper behind your back what a nice looking man you are, and what a stick
of a wife you have; and you are just soft enough to wear tight boots, and oll

WOMEN CURED AT MOME! Women durders always yield, from
 LIIy. Within two the improvement becomes noticerovement conpatient is completely cured. Orange Llly s an applied or wocal tre organs, removing directly on tion, toming and strengthening the nerves, and restoring perfect circula-
tion in the diseased parts. In order to tion in the diseased parts. In order to
convince all suffering women of the value convince all suffering women or the value
of this remedy, I will send a 35 -cent boo,
enough for ten days' reatment, absolutely enough for ten days' 'reatment, absolutels
FREE to each lady sending me her address. FREE to each lady sending me her addresss.
MRE. $\mathbf{F}$. V. CURRAM, wiNOSOR. ONTARSO.



## A Clear Complexion

Some Valuable Pointers on the Best Way to Relieve Skin Troubles.

Thousands of people have looked for a long time-in vain-for a sure
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from chronic pimples and blotches, from chronic pimples and
while others are terribly afflicted with itching eczema, psoriasis and other torturing diseases.
A cure has now been found-a cure so simple that we want every sufferer to hear of it. The D. D. D. Company's announcement on this page tells about this cure, which has proved so effective in thousands of cases. Read their remarkable offer. The D. D. D. Co. makes this offer in order to prove positively that their remedy will instantly relieve the tche
and soon give an absolutely pure and soon
complexion.
This remedy, known as D. D. D. Prescription, is the discovery of the
eminent skin specialist, Dr. Decatur D. Dennis, and, after a careful investigation, and reading of reports from eminent specialists, as well as a study of actuai cases, we must admit that at last the true caus and cure of skin diseases has been found We hear that hospitals in every
part of the country where rich people go to be treated for skin trouble, are now using this remedy. What seems most remarkable to us about this matter is that the D. D. D. Co. offers
to do exactly the same for you as is done in a hospital, and that positively without charge. While you are using the remedy, you can write any
time to the D. D. D. Co., explaining your symptoms, and the specialists in charge will tell you what to do as to External Cure for the Skin. This is explained by the fact that
D. D. D. Prescription works on the only scientific principle of curing the skin through the skin. Formerly, in
the old school of medicine, skin disthe old school of medicine, skin dis-
eases were supposed to come from the
blood, but Ir. Dennis, after years blood, but In. Dennis, after years
of study. discovered that eczema of study, discovered that eczema
is due to a germ which lodges in the skin.

Not at all a Blood Disease. Common sense will show you that
eczema is not a blood disease. There eczema is not a
are two kinds of skin trouble-two entirely different varieties. In the
one kind the system is diseased, and one kind the system is diseased, and
the skin troubie is merely a sympthe skin troubse is as, for instunce, scarlet fever, tom, as, for instuluce, scaret fever,
measles or small-pox ; in the other class of skin diseases, the skin trouble
is not a symptom, but in itself conis not a symptom, but in itself con-
stitutes the disease. Thousands of people are suffering from eczema when
they are not sick in any other way. they are not sick in any other way.
This shows conclusively that eczema This shows conclusively that eczema
is in the skin itself, not in the system

Remedy Found at Last
To cure the skin through the skin,
by killing and dislodging these germs, by killing and dislodging these germs,
Dr. Dennis compounded from various harmless ingredients the great D. D.
D. Prescription, which the greatest D. Prescription, which the greatest
authorities now recognize as the specific for skin trouble. To convince you, they offer a large sample bottle free ( you should send 10 c . to help pay
postage and pracking), and we certainpostage and pracking), and we certan
ly advise mot to neylect this fre

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edy itself fan convine you. The
instant relief you will feel, and
the rapid disappearing of the
eruption and torturing itch will
be the best proof you can pos-
sibly have that D. D. D. is the
cure for eczema and all skin
diseases. The first drop will
give instant relief from the itch,
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Have Been Cured by D. D D.
Pre cription.



OCTOBER 29, 1908


Larger Profits For Fruit Growers
Are you getting these bigger profits? If not, write for our free Catalogue
THE MODERN CANNER CO. Canadian Branch, St. Jacob's, Ont.

Artiticial Fertilizer Spreaders 2 Only, British Manurfacture. THE SHEDDEN FORWARDING CO, THE SHED Joronto. secule one or on man
 proximately 80 rer cent. of the safes,
and the sates themsel
anes, were destroyed. One can reacily understa, proternous
loss this lack of freproof protection entasiled, and business men owe it to
themselves and their business, prosent themselves and their business, prosent
and future. 10 immediately investigate and future. Io immediately investigati
the strength of their protection. It is
well to remember the weil to remember that a por sate wis
worse than no safe at all, tor it will
misuse your trust, and will not stand the
test in time of ne tost in time of need. If you are buying
for fire or burglary protection, it show not be a question of how cheaply you
can buy, but how well you can guard $\begin{array}{cc}\text { against loss. } \\ \text { Sales embody } & \text { Twe Hentrring-twall-Marvin }\end{array}$ Peatures. Which make strong, convincing
reasons proving their superiority men and corporations secure the greatest protection obtainable by using these
safes. The Canadian Fairbanks Co. will be pleased to show this high-grade line latest types of safes are carried in stock at their warerooms, Montreal, St. John,
Toronto. Winnipeg. Calgary and VanToronto. Winnipeg, Calgary and Van-
couver. Plans and specifications will be cheerfully submitted, covering installalions for new brild ngs, either for an
ordinary safe. or the most intricate firo and burglar proof safes or vaults.

GOSSIP. Competition in Judging stefers To furthar increase the educationa
value of the slaughter test at the Inter national Live-stock Fxposition, Chicag,
Nov. 28th to Dec. 10th, the directors competitive class teers entered for slaughter. This contest is thrown open to the
world. and anyone desiring to take part
oay do so by paying an entry tee dollar.
The money thus outained will be distributed pro rata smong the five con
testants receiving the highest rating, testants unon the judeine of carcasses unon
thaed bloc's by the regularly appointed jurgo of corcensses.
This conte $t$ is to the the anspices of those in charre of
judging contest and the carcass contest, Mr. H.
D. Smith, Ingleside Farm.
Hamilton. his noted herd of Herefords ten young
bulls of frist-class lyreeding. and of suit-
able age for service in the coming season.

The "Champion" gas and gasoline ENGINE

| The only Gasoline Engine that is sold on trial |
| :--- | and guaranteed satisfaction or no sale. The

WM. GILLESPIE, ORONTO, ONT.

Auction Sale of Farm Property
 on TUESDAY, NOV. IOPA:

Thomas Brown. Auctioneer:

 ing two bundred and
less This is a well-known tract of frst-class
The drainage tax on this
 in lots. at the same time and place, lot 35
 purnadys
For further particulars apply to the owner:
JOHN RANSFORD, CLINTON, ONT.

## Linden Oxfords!

 This year s crop of All sired by good imp. rams.
yearling ram.
 TROUT CREEK LEICESTERS!

 prices or come and see G. A. GREER, Farm
fiali Mile from Luckow. int. LADIES' SUITS, $\$ 7.50$,


WE MANUFACTURE Steel Troughs

|  |
| :---: |
|  |
| FOR SALE-Pure Rhode Island Red cockerels and pullets Orier dolar each. Que. |
|  |
| $\mathrm{W}^{\text {ANTED-A situation for fitting horses for }}$ for or or |
|  |
|  |
| 150,000 For wern them. ete Cheap. Write for Montreal. |

THE FARMER'S ADVOCATE

GOSSIP
Ont.. near Woonstock, advertises for 12 months old, sired 1, , sons of cows Dairy-bred Shorthorns are advertised sale in this paper by Wellington
Ot red roan yearling bull, and several
broice heifers, by imported sires, and bred Attention is called to the auction sale of Clydesdale and general-purpose mares
and fillies and young cattle, advertised in this issue by Wim. J. Lamb, of Tancred,
Lambton Co., Ont., to take place at his Larm, lot 13, con. 2. Brooke Township.
on Monday. Nov. 2nd, when two choice registered Clydesdale fillies. two and four
years old, will be sold, one a prize-winner at London and other shows. Also general-purpose mare and gelding, and
fome 25 head of young cattle, ferm im-
per

The attention of breeders of Holstioin cattle, and of dairy farmers generally, is
directed to the ofrerings in the advertise-
ment of F. H. Dollar, of Heuvelton, St. ment of F. H. Dollar, of Heuvelton, St.
I awrence Co.. N. Y.. near Prescott. ont., whose herd contains numerous progeny of the great sire, Pontiac Kora-
dyke, for which $\$ 10,000$ was refused, who has more high-tosting daushefused Advanced Registry than any other bull
living. The great cow, Pontiac Rag Apple, Was sold from this herd for
$\$ 8,000$. Bull calves rich in this blood ire offered at moderate price
1rove a good investment.
willowbank shorthorns and Fetab ishad in 1855, for Cutury the willowbank herd of Shorthorn cattle and Leicester shoep has been in continual existince on the one farm,
and in the same hands, with the one object, that of continual improvement of The herd and flock, ever in viow. And ociated with the breeding of Shorthorn cattle and Leicester sheep than that of the present owner, Mr. James Douglas, Caledonia, Ont. The Shorthorn herd
now numbers 70 heed, representing on blood lines the most fashlonable and
popular tribes. The Willowbank herd
anks among the very best in Candapopuks among the very best in Canado-
ratrictly up-to-date in type, almost withstrictly up-to-date in type, almost with-
out exception of the very large, thickout exception of the very large, ed-licing
feshed, early-maturing and good-coing
sort. Eight of the breoding oows aro fieshed, Earight of tho breading oows aro,
sort.
mported, many of the others are by imported, many of the others are by
imported sires and out of imported dams, importer sires and every one carrying the
and practile
blood of noted Scotch ancestors. TTe hain of nock bull is the well-known To
monto first-prize winner, Imp. Joy of Morn ronto first-prizk wnner. . mp. Joy of Morn-
ing, the Cruickshank $J$. bred son of Pride
of Morin of Morning. As a sire, be is far-famed,
his get being in active demand on both sides of the line. On hand are 14 year-
ling beifers, an exceptionally strong ling heifers, an exceptionally strong
bunch. sired by the exoellent stock bull.
Scotish Banner, a Lady Boyne-bred son of Imp. Rosicrucian of Dalmeny. Somo of the heliters mentioned are daughters of aricrucian of Dalmeny, part of them
ouphrted dams, the others
out of cows with imported sires and out of cows with importod sires and
dams. There are also several young bams, bred the same. a splendid. thick-
fieshorl lot, that will develop into choice nestheneaders. A fow imported cows can
herdso he spared, in calf to Imp. Joy of
also
Morning. The willowbank flock of LetMorning. The willowbank flock of Let-
cesters are second to none. No expense has ever heen spared in the sel is plainly
fock-headers, a wisdom that acteristic of the fock. A Amose or quite
without a peer is the prosent stock ram; wi hout a doubt. one of the very best ever imported. Last fall, at Sherbrooke, in the occasion of the Dominion Exhibl-
Cion, in $a$ very stromg class. he was an easy first. the only time ever shown.
For sale are shearling and ram lambs,
shen-lling and ewe lambs, the shearling shea-ling and ewe lambs. the shearing
ewes now being bred to the stock ram. Parties in want of something choice in
Leicester sheep, should correspond with Mr. Douglas. He reports trade
rood, particularly in Shorthorns.


## AUCTION SALE!

Monday, November 2nd, 1908.
among other articles such as about
25 HEAD OF YOUNG CATTLE
Wagon, Sleighs, Harness, Collars, London Fence Machine, etc., to be sold
is a beautiful TWO-YEAR-OLD CLYDESDALE FILIY, of perfect type, weighing nearly 1,500 pounds, taking 3rd place at the London Exhibition, ist at
Strathroy over the London and in a strong class, Strathroy over the London 2nd in a strong class, ist at Glencoe in a strong
class, and ist at Alvinston. Also LOUISA VICTORIA, A FOUR-YEAR-OLD FILLY, supposed to be in foal. These two mares are registered in the Canadian Clydesdale Book. One gelding-three-year-old, and a four-year-old mare-general purpose.
Lambton County, Ont.

Wm. J. Lamb, Proprietor
Tancred P. O., Ont.

## GALLOWAYS BY AUCTION

In the Winter Fair Buildings, Guelph, Ontario, on Saturday, Nov. 7, 1908, 1 p.m. About THIRTY Galloways - cows, heifers and young bulls. Selection from the herd. In field condition. A good chance to get some of this hardy breed so popular in the West. TERMS \$50 and under cash, or 6 months on bankable paper with $5 \%$
D. McCrae,

Guelph, Ont.

## REX SUGAR FOOD

Just add to regular feed. It will fatten any animal on the farm in half the time required without its use. Sugar Foods have been used in England for
FORTY YEARS for fattening. Feed according to directions, and the resul will surprise you. Try it and be convinced. Money cheerfully refunded if
not satisfactory. Sold only in 10-lb., $25^{-1 \mathrm{lb}}$. and $50-\mathrm{lb}$. bags. Ten cents a pound. not satisfactory. Sold only in $10-\mathrm{lb} ., 25-\mathrm{lb}$. and $50-\mathrm{lb}$. bags. Ten cents a pound.
No more. No less. If your dealer cannot supply you, write to us direct. No more. No less. If your dealer cannot supply you,
Delivered to any address in Canada upon receipt of price.

REX SUGAR FOOD CO., WESTON, ONTARIO.

SUBSCRIBE FOR "the FARmER'S adVocate and home magazine
wards in the grade and cross-bred hor
 found on page 1658 in this issue. Messrs. Wm. Grainger \& Son, Londes
boro, Ont., write us (but too late to make change in they have six young
this issue), that ther in their Hawthorn herd of
bulls to offer in deep-milking Shorthorns. Mr. James Sharp, of Rockside, Ont.,
writes, claiming date of Friday, Nov 20th, for his dispersion sale of Aber-
deenn deen-Angus cattle, particulars
will appear in our next issue.

Mr. R. J. Hine, the well-known breeder farm at Dutton, has purchased another at St. Mary's, Ont., which, after No
vember 1st, will be his post- - ffice address. St. Mary's is a iunction station
dres Stratford to Sarnia branch, and
on the St. on the strattora to Sarnia branch
the London branch of the $G$. T.
miles from the city of London.

The footlines under the cut of an Ayr-
shire cow belonging to Messrs. R. Hunter \& Sons, Maxville, Ont., appearing in our
shire cow beloning to Messrs. R. Hunter October 15th issue, page 1585, should
read Dairy Queen of Springhill (imp.), 3 years old, winner of first prize in her class at Toronto and London Exhibi-
tions, 1908. The first - prize aged cow and female champion at London, Dal-
fibble Grace 2 nd (imp.), is owned by the same firm, and the error occurred through
mistaken identity of the photographs of mistaken identity of the photographs of
the two cows. Attention is called to the importan
dispergien sale of Ayrshire and Hereford dispergiem sale of Ayrshire and Herefora
cattle and Yorkshire swine, the property of Mr. J. N. Greonshields, advertised to
take place at Isaleigh Grange Farm, Danville, Que., on November 12 th, when the
entire herd of 60 head of Ayrshires (male entire herd of 60 head of Ayrshires (ma
and female) and nine Herefords, besides a number of Yorkshiro swine, will be sold
The Ayrshire herd is hearded by the noted imported bull, Netherhall Robin Hood ard a number of the cows have ine
ords of performance. The Herefords wene winners at Sherbrooke Exhibition, as al-
so were the Yorkshires. See the adver Lisement, and note that all must be sold as Mr. Greenshields has rented the farm, and gires possession Now.
date oi sale is Nov. 12th. At the American Royal Show, held at Kansas City. Mo., recently, the round-
up show of the circuit of summer and
fall shows in the Central and Western fall shows in the Central and Western
States, generally regarded by stockmen States, generally regarded by stockmen
as the most important of the series, the roan three-year-old shorthorn cow, Flora
9oth, bred by Geo. Amos \& Son, of Moffat, Ontario, sired by Old Lancaster
(imp.), and shown by D. R. Hanna, of Ohio, was placed first in her class, and was awarded the senior championship.
over the hitherto first-prize-winning cows at the other principal shows of the sea-
th. Flora 90th, it will be remembered, was the grand champion female
ronto, 1907, and is hall-sister to Messrs Amos \& Son's grand champion heifer,
Pleasant Valley Jilt, at the Toronto
 reditable to the breeders, and the sire
I the winners. it is significant that dam of Dorethea 2 and; the strongest ompetitor of Flora 99th, was also bred
n Canada. in the herd of Mr. Rankin,
of wyebridge. and was second in the Sale dates clained. V. 2nd-Wm. J. Lamb. Tancred, Ont
Clydeodnoles and young cattle. ov. 4th.-A. E. Meyer. Guelph: J
Watt \& Son. Salem, and J. Cordo Cibb. St. Catharines, Ont.; Shor
Gorns, at Guelph. Galloways.
9h. Bert L.awson, Hyde Park,
Ont. Jerseys and grades, farm and
implements. 12th-I N Greenshields, Damville.
Galloway cattle from the noted pri,
winning herd of Mr. David McCrae.
Guelph, to bo held in the Winter Fa
Building in that city on Saturday, Nol
th, at $1 \mathrm{p} . \mathrm{m}$. The offering consists
cows, heifers and young bulls, and the
sale affords a fine opportuunity to secure
good stock of this hardy and easy-kent
yood stock of this hardy and easy-kept
good
breed
price.
At the annual sale of Shorthorns, on
don, of Newton ; Mr. A. T. Gordon,
Combscauseway, and W. A. Mitchell,
Auchnagatle, Aberdeenshire
price, 600 guineas, was paid by Mr .
Arice, 600 guineas, was paid by Mr.
Dron, Crieffechter, for Mr. A. T. Gordon's
great young roan bull, Bandmaster, which
was first at the Royal Show, at New-
astle. Mr. Martinez de Hos, Buenos
yount Scaid 400 guineas for the red
on, Ont., 100 guineas for roan Bands-
paid 200 guinens the herd. Mr. Duthie
from the same herd.
rom Newton averaged $£ 43$. The twenty-
two head from Combscauseway averaged
wo head from Combscauseway averaged
c98, and the seven head from Auchna-
rathle averaged $£ 36$. The average for
Sir marcus sold
Messrs. Graham Bros., of Claremont,
Ont., have purchased from the Graham
Renfrew Company, of Bedford Park the
Toronto and Chicago champion Clydes-
dale stallion of 1907, Sir Marcus (imp.).
at the International Show in December.
death of James petty.
The death occurred at his residence in
Hensall, Huron Co., Ont., on October
23rd, of the founder of that iown, Mr.
England, and came to Canada about
1850. The deceased was one of the best
known stockmen in Western Ontario. He
was among the earliest importers of
pure-bred stock to Canada, exhibiting
prizewinning imported Shorthorns and
Cotswold sheep at the Ontario Provincial
Cotswold sheep at the Ontario Provincial
Exhibition at Brantlord in 1857, includ-
ing the noted cow, Fanny $=173=$ (imp.).
ancestress of the famous champion full
isters, Fair Queen and Queen Ideal, the
ater first-prize cow in her class at To-

genial gentleman.
Hensall for a number of years. He was
Judges at intfrnational show.
Among the judges appointed for the
nternational Livestock Show at Chi-
cago, Nov. $28 t h$ to Dec. 10th, are the
following : Shorthorns, Harry Smith,
Exeter, Ont. Polled Durhams, T. E.


shire sheep. Arthur Danks. Allemuchy,
v. J.; J. C. Ducan, Lewiston, N. Y.,
(alternate). Hampshires. P. W. .
Ostorn, Ohio. Cotswolds, W. W. F. Watt, CI
-. F. Day, Guelph, Ont. Cheviots,
Noel Gibson, Millbrook, N. Y. Dorsets,

Allen, Paris, Ont. Clydesdales, Prof. F.
B. Richards, Fargo N
F. Richards, Fargo, N. D., Andrew Mc-
Farland, Polo, Ia., Geo. Hutton. (referea)
N". Answer, "but if you don't
classes and champion steers at the in-
ternational Live-stock Show. Chicingo, he first weok in December, is Willitu
Heap, of Manchester, England, Presillont Heap. of Manchester, England, Prestilnt
of the Natlonal rederation of Mrut-
rraders' Associations. raders' Associations.

$\qquad$

OCTOBER 29. 1908


## Foll ilio 0 OTOMOR

 BiCC WIS SD WEAC.Backache is the primary cause of kidney
touble. When the back aches or becomes weak it is a warning that the kidueys are hable to become affected.
Heed the warning; check the Backache
and dispose of any chances of further and dispa
trouble.
If you don't, serious complications are
very apt to arise and the first thing you very apt to arise and the first thing you
know you will have Dropsy, Diabotes or know you will have Dropsy, Diabetes
Bright's Disease, the three most deadly Bright \& Disease, the
formis of Kidney Trouble
Mr. James Bryant, Arichat, N.S., was
troubled with his back and used Doan's troubled with his back and used Doans
Kidney Pills, he writes:- "I a anoot say
too much about the benefit I received after using three boxes of Doan's Kidney Pills. I was gr attly troubled with an aching pain go to work and my back was so woak I
would have to sit down. It would go away
竍 would have to sit down. It would go away
for a fow days but would alway return.
I wis advised to try Don's Kidney Pills for a fow days but try Doan's Kidney Pill"9
I was advised to tren
and I must say they complotely cured me." Price 50 cents per bor or 3 boree fo
$\$ 1.25$ at all dealers or mailed direct o recoipt of price by Tho Doen Kidney Pil
ren


Evergreen Stock Farm Holstein Bulls
 F.E. PETTIT, burgessville, ontario.

## FOR SALE!

Herefords
10 YOUNG BULLS.
Good individuals, and the best of breeding, at bargain prices. Come and see
hem, or write at once for particulars
H. D. SMITH, HAMILTON, ONT

##  <br> OIL CAKE

The finest feed known for stock. Once a user, either fine or coarse
J. \& L.Livingeton Brand ground. Write

DOMINION LINSEED OIL CO., LIMITED,
bADEN, ONTARIO. 31 Mill Ste MONTREAL, QUE


## Dualin Stumping Powder

MANUFACTURED BY HAMILTON POWDER CO.
DO YOU KNOW
That blasting stumps and boulders with our new explosive is the most up-to-date and economical way of clearing farm
If not, give it a trial, and be convinced. Write :
Hamilton Powder Co's Office, NEAREST TO WHERE YOU RESIDE,
TORONTO, ONT. MONTREAL, P. Q. VICTORIA, B. C.
$\qquad$ ar for free descriptive catalogue and prices and

1674

FINE FUR SGARF

ol

THE FARMER'S ADVOCATE $\underbrace{\text { in }}_{i}$ GOSSIP. in ordering a change, of Dentield, Ont...
ment oo sharthorns and advertise
sheep. sheep,
bull
left
mor ser
cor

we | cond |
| :--- | :--- |
| wea |
| clove |
| clove |

 that made such the wheat last spring both cattle and sheep in it. It helped
them through the dry spell. them through the dry spell. " I em well pleased with the calves com-
ing from my stock bull, Star Prince ing from my stock bult, Star Princ
$=53900=$ a Bruce Mayflower. I have
seldom seldom seen calves come so much alike,
both in color and conformation-short both in color and conformation-short
legged, thick, blocky calves, like their
sire. sire. I should be pleased to show and
price, at very and heitirs in cealf, or with calves by
their sides. If buyers come before the their sides.
snow is on the ground, they will find
them outside on them.
"The Lincoln ewes I am offering are the
same blond as my prizewinners are not fixed up for sale, and will be
priced so priced so that they will be a good in
vestment for the buyer. vestment for the huyer. Our show floc
will be in their usual shape for Chicaga winl be in
and Guelph."
willowdale berkshires. Excellence excelled, and the very high-
est type of the breed, is the watchword of Mr. .J. Wilson, of Milton, Own.., Starting the breeding of Berkshire swine a few years ago, by th3 purchase of a
pair of the best imported sows to be pair of the best imported sows to be
bought in Canada, and careful selection
in additional purchas in additional purchases, aided by severanal
impi rtations, the willowdale herd to-day ranks among the foremost in Canada The phenomenal success attained by this
herd at the late Toronto Exhibition Where they appeared to compete for hon ors ance stamped the herd as excelled by
at one none, and equalled by few. With the
exception of herd placed serond, herd, where they were
class fon first in every class in which they competed, which was
first and silver medal on sow 2 years and over, first on sow under 2 years and
over 18 months, first on sow under 12 the remarkably strony competition they
were up against. The stock boars in
use of late were Imp. Lord Monmouth, use of late were Imp. Lock Moars in
and the Toronto winner, Lord Souvenir,
and with imported sire and dam. The one
now being used is Imp. Diamond Cutter, thus showing that on the sire's sid
great care has been exercised to breed to
nothing but the best procurable. brood sows, there are over a dozen,
ranging in weigh from 500 to 750
poon is, among which are such grand good ones as Boyne Queen, the Toranto champion. who has one six-months'
duaghter that is for sale, and a good
one she is. Stratton Prin ess (imp.).
$\qquad$
$\qquad$ one boar an 1 one sow, six months old,
hy Imp. Polgate Delarey. Willowdale
Manor Lady (imp.., out of whom are
年


Shires, Shorthorns and Lincolns


JOHN GARDHOUSE \& SONS, Highfield, Ontario.


Imp. Clydesdales and Hackneys
 T. H. HASSARD,

MARKHAM, ONT.
Imported Clydesdales In iny now inporation have hat bopt All have great size, smoothness
WM. COLQUH $) ~$

MITCHELL, ONT. N IMPORTED CLYDESDALES
 IMPURIED CLYDESDALE FILLIES Young imp. mares in foal or foal by side One Clyde and one Hackney stallion. They
are the best hat can eb purchased. Write or come and see them. Terms reasonable
Stoufvile G T.

i: lydesdales timorted and cantilan bred our mare all were high-class (imp.) mares, for sale right. 1907 . Four male foals and one filly, all from Imported I have still on hand $\frac{1}{2}$ stallion, black, rising \& yrs., by Carthusian,
 the price and terms are right. them. Every one of these is an extra good animal, an
T. D. ELLIOTT, Bolton, Ont.



OCTOBER 291908
HORSE OWNERS! USE
CAUSTIC BALSAM. Comed araaboodjand paitive ouro



1
















HACKNEY MARES FOR SALE
O. Borby, Guelph, Ont.

CLYDESDALES
 SHORTHORNS
 JAMIES McARTHUR, Gobles, Ontario.

 For Sale! Percheron and French broft


THE HARMER'S ADVOCATE
1675
 with abundance of qually and enaradark
Squire is another two-year-old, a dayk
brown, sired by Ascot, dam by Royal brown, sired by Ascot, dam cho co colt,
Standard. This is a very
with a most pleasing top, full of style with a most pleasing top, full of style
and quality-a colt that will make good
and wherever he goes. Rose Campbers
Clydesdale filly, brown, two years old Clydesdale champion Benedict, dam by the
by the che
Cawdor-cup winner, King of the Roses. Cawdor-cup winner, King of quality kind
She is a rare good sort, the qual
Canadians like, and is in foal to Buttar. Canadians like, and is in foal to Buttar.
Blanch Surprise is a chestnut five-yearBlanch Sckney stallion, by the double
old Hame the cham-
champion, Rosa or, dam by the champion, Ross or, dam by the cham-
pion Garton lyke of Connaught. This is one of the good ones, with all-around
natural action, breedy appearance, and
net

 mare, well broken, and in toal to Blanc
Surprise. All these horses are for sal
at living prices. Parties visiting the
at at living prices. Parties visiting the
farm should take the Metrpolitan Elec which lands th
which lands
of the farm

## WHAT NEGLECT DID FOR HIM

Jas. E. Brant Suffered Torments trom Kidney Diseases

Then Me used Dodd's Kldney P.lls and Be came a We I Man - MIs Experlence a thabasca Lenting Alta., Oct. 26. Athabasca Landing, Alta.,
(Special).- That Kidney Disease, neglectnost terrible suffering, if not death itself, and that the one sure cure for it
in all stages is Dodd's Kidney Pills, is the experience of Mr. James E. Brant, a larmer residing near here.
Mr. Brant contracted When a young man, from a strain, and, ing it to go away, itself. ill, after thirty years of increasing sufPering, the climax came, and he found
himself so crippled that at times he could not turn in bed, and for two weeks at a time it was impossible for ting his hands on his knees. was troubled with Lumbago, Gravel and Backache, and tried medicines for each
and all of them without getting relief, till good luck turned him to Dodd's Kidney Pills.
Dodd's Kidney Pills started at the neys. With cured Kidneys, his other troubles speedily disappeared, and today he is a well man.
If you cure your Kid
If you cure your Kidneys with Dodd's bago. Rheumatism, Heart Disease,
J. A. WATT, SALEM, ONTARIO.
Elora Station, G. T. R. and C. P. R
I can sell twelve young bulls, two of them leading
IViners at the ciur oester show and Toronto
Loouk up the records of the leading fairs, and note
Shorthorn Cattle and Lincoln sheep.
Females of all ages for sale of the thick-fleshed, low.
down leind that have been raised naturally, neithe
 J. T. GIBSON, DENFIELD, ONT MAPLE HOME SHORTHORNS

 three yearling bulls. A way
above the average. Pure Scotch
and Scothhtopped.
A. D. $\underset{\text { EImira, Ont. }}{\text { SCHMIDT }}$ \&

SHORTHORNS


M.C.R. Scott Bros., Hishesate, Ont. P.M.R. Phorthorns, Cotswolds, Berkshires.

Chas. E. Bonnycastle, Campbellford, Ont.
Spruce Lodge Shorthorns and Leicesters. In Sporthorss, we are offering young bulls and
Ind
heifers, by imp. sires and cot of heavy-miking limgs. rams and ram lambs, and one and two year old
lwes of No. 1 quality. W. A. DOUG̣LAS Coledonia Station. Brownlee Shorthorns Three young bulls Verth. Will sell at a a argain.

When Writing, Mention This Paper.

## Scotch Shorthorns By AUCTION.

is the winter fatr buluning, at gevelph or
WEDNESDAY, NOV. 4th, 1908
At 1 o'clock p. m. Messrs. John Watt \& Son (Elora), J. A \& J. G. Gibb (St. Catharines), and A. E. Meyer (Guelph), will sell 30 head of Scotch Shorthorns-females and yearling bulls. The females are: All in good condition.


Families represented are: Missies, Mysies, Crimson Flowers, English Ladys, Strathallans, Roan Ladys, Lovelys, Duchesses, Merry Lasses, Mayfowers, Bellonas, Augustas, Lovelaces, Bessies, Brawith Buds, Villages, J., and others. Most fashionably bred. Imported sires and dams. Nearly all eligible for registration in on animals.
high-class lot. Sever
TERMS-Cash, or 6 months on bankable paper, with $5 \%$. Thos. Ingram and Capt. T. E. Robson, Auctioneers.

## A. E. Meyer, Guelph, Ont. <br> 0. Box 378

| A. Edward Meyer, |
| :---: |
| O. Box 378 , Guelph, Ontario, |
|  |
|  |
| IWO IMP. BULLS of ecaler mantiv, |
|  |
| and his in |
|  |

Valley home shorthorns

 s.J. Pearson,Son $\AA$ Co.,Meadowvale,0mt.

Sotch Shorthorns Canadis, greatex




Farmers and Cattlemen Pead This!
 Donala Murro. Live. Stock Fordwardina Asent ann Commision
 xwermes


Farmers and Cattlemen, Read This

hey are calves. A lad with a stick
hree feet long and as big as his finger
will conduct a bull away from other
bulls, and his cows from one end of the
farm to the other. All this gentleness farm to the other. All this gentlenes
is merely the effect of management." v. Colquhoun's clydesdales Mr. Wm. Colquhoun, of Mitchell, Ont
has litely arrived home with his 35 th importation of Clydesdales. For twenty porting Cears Mr. Colquahoun has been horses, and, of the
plater
隹 practically every case have given perfect carisfaction to the purchaser, never be
fore had so choice a lot together
as now. if one thing more than any now. If one thing more than any
other has made Mr. Colquhoun's selec-
tions famous, it is. trength of bottom, and well-sprung
strality and
and nkles. In this particular, as well a
in strength of character and draft type this lot certainly excels. sire, Baron Hood [8489], sire of last
winter's is a brown, eight years old, by Baron's If Wales, fod by Prince Robert Pinc Hood has only to be seen to be appre
fiated. From his superb top to underpinning, his make-up is well-nig
aultless, and his world-wide reputatio has one of the greatest living, sires wil
 Baron's Pride, dam by Macgregor raft character, a noted sire, and up
ro a ton in weight. Blacon. Fasher $8481]$ is a bay four-year-old, by the Blacon, dam by the well-known show
horse, MacVinnie. Here is a typical rraft horse, of smooth, even mould, on
the best of bottom, a grand type. Red
hord $[8484]$ is a bay four-year-old, by [8484] is a bay four-year-old, by
ickle Fashion, dam by Flashwood. Here
an exceptionally well-put-together an exceptionally well-put-together
horse, indicating strength in his every
neament withel neament, withal smooth to a turn, and
with lots of quality. Admiral Vasey
84831 is a brown 84831 is a brown four-year-old, by Bar
on Godolphin, dam by Sir David. Thi
The a Godophin, dam by Sir havid. This
is also a horse of strong draft character
sis 84851 is a bay three-year-old, by Gen
eral Hunter, dam by the unbeaten Prince Carruchan, grandam by Flashwood
This is one of the best three year-old
anported for several years, up to a hig imported for several years, up to a bi
size, with choice quality throughout, an
will make over-a-1 on horse, put up on will make over-a-ton horse, put up on
show lines. $\begin{gathered}\text { Baron Glasnick } 18486 \text { i } \\ \text { another three-year-old, by Baron's Pride }\end{gathered}$ $\begin{array}{ll}\text { dam hy Prince of (aruuchan, grandam } \\ \text { by Macgregor. } & \text { No better-bred horse is }\end{array}$ recorded. In type, he is immensel,
thick, of the arat-horso kind, powerful,
fhat boneal a draft horse all through .
 breeding is
lines. The
purchasers. co allow his men to infict the smallest Arthur young was struck by the result of this system when he visited Dishley, culiarity," he says, " is the amazing entleness in which he brings up these
animals. All his bulls stand still in the held to be examined; the way of drivng them from one field to another, or ome, is by a little switch; he or h
hen walk by their side hnd guide the隹 walk by their side hnd guide the Wherever they please, and they are ac
customed to this method from the time

GOSSIP
sage: "With one hand he held the beau-
iful golden head Waves, and wi
for assistance

At a show and sale of Shire foals, a ober, 2 i5 foals were entered. In a list of some of the chief prices realized, th
Gigures ranged from 35 gs. to 130 gs .

Robt. Bakewell was famous not only for
his success in developing new breeds, he Was a great advocate for the gentle


WOODBINE STOCK FARM


breding and tanaitity.
A. KENNEDY, Ayr, ont.

LAKEVIEW HOLSTEINS

为
 Maple Hill Holstein-Friesians
G. W.CLEMONS, St. George, Ont.


 Hilton Stock Farm-Holoden,2, Cotronold
 P䭗ighton Tel. and Stn. Glenwood Stock Farm-Molstelnin and
 type and irsteclase s. son warkworth P.O. Ont. Ridgedale Farm Holsteins bur sale:

 There is a story going the rounds of Bishop of London. Lord Salissury, as is well known, was very ab ent-mindrd man, and his mem-
ory for fraces was just about as bad as
 London and Lord Salisbury were visit-
ing at Sandringham, the former observed that the Premier did not seem to recog-
nire
him
 n't think. declared the Premier to his Royal host.
"Well, 1 should think you have," replied him Bishop of London!",
 Watch

Remarkable for richness and pleasing flavor. The big black plugg chewing tobacco.

HE FARMER'S ADVOCATE

## Control of bovihe tuberculo

 CONTROL OF BOVINE TUBERCULOSIS.
(Continued from page 1652.) it is in my opopinion much more sensible
and
likely to be productivo of utimate
 ver an extensive territory, difficult, if
ot impossible, to keep under observa--
oot
ion or control, without an enormous stafl of well-trained. experiencod,
absond
aboly
and
conscientious
veterinary spectors, having no interest, beyond that
of duty, in the herds with which they are malled upon to deal or their owners.
I might here say that the policy of employing local practitioners for this work perience, at least, has not, in the maiority of instances, proved either bene-
ficial
the bang system.
I have nothing to say against the
Bang system itself; in fact, I am, and
always have heen, one of its most conalways have been, one of its most con-
sistent advocates and admirers. I cannot, however, after thirty years' experience as a veterinarian on this continent,
and with the knowledge acquired in that and with the knowledge acquired in that
time of conditions on the ordinary North American farm, bring myself to believe that it is capable of successful general
application on this continent. application on this continent.
There is no doubt that, if all our stock-owners were thoroughly inteliigent, well-informed, anxious to rid their herds of tuberculosis, and gifted with an in-
finite capacity for taking pains, either the Bang system or that of Ostertag might be adopted with every hope of successful issue. As matters stand, we
must, in order to deal with bovine tuberculosis effectively, have some dofinite policy of legal control, and the question,
to my mind, is whether or not such conrol can properly be based on the tuberCombination of systems pro At present I am inclined to ravor and Ostertag with that of the Manches er men, accompanied herds than is recommended by either of the two first-namer authorities, so far as I underatand their detected, open cases of tubberculosis, should be destroyed; all the adults in
herds in which such cases are found to be treated as if diseased, marked and
segregated accordingly; all millk from such herds to be pasteurized, whether used for human food or for that of animals, the progeny tults, regularly gubmitted to the tuberculin test, and kept by themselves until the disease has been
elimine death or removal of the affected parentstock. Any animals added to the healthy herd would, of course, have to be Lested on purchase, and retestod arter
three months' careful isolation. I am free to admit that this plan is open to
many of the objections which I mayself many of the a against the other two al rea mentioned, but it appears
to obviate the enormous economic waste
and and the tremendous popular opposition
involved in the policy of compulsory
sleughter. while it promien slaughter, while it promises, if syste
satically applied, matically applied, and patiently and
carefully carried out, infinitely better re carefully carried out, infintely better tre
sults than can be hoped for from tha of promiscuously testing the herds
only such owners as are willing to only such owners as are willing to
mit them to the action of the auth mit them to the action one or more a
ties. The presence of tual clinical cases of tuberculosis in an
herd would constitute a perfectly de hercimle and roastonable a pround for or offial
fenction and by making notifcation action; and by making notifcation by
wners or veterinarians compulsory, in other scheduled diseases, retiable in
formation on which such action cou Tormation on which such action cou
be taken. would in most instances b Torthcoming.
As has been well said by the editor As has been well said by the editor of
the Lancet, in commenting on the recent able paper of Dr. Overland, of Norway,
the famous address of Dr. Koch, in 101

has, after all, by stimulating others | has, aftcr all, by stimulating others to |
| :--- |
| investigation and research, been produc- |
| tive of good, perhaps to an extent sumf- |
| cient to ofiset the hesitation and delay | cient to offiset the hesitation and delay

in actual practical effort which it un-
doubtedly caused doubtedly caused.
(Continued on next page.)


Beaver Creek Holsteins ${ }^{-1}$ have at |FAIRVIEW offrery you another son of the egreent cows and heifers for sale, and
all from good milkers. Apply to
albert mitilefenlot. Eicho, ont.

 Count De Kol. ${ }^{\text {grandson }}$ BROWN BROS. LYM, ONT. The Maples Holstein He Headed by Lord Wayne Mecththide Cala mity, al it the Reoord of Merit. Nothing for san's. Ont.
bull calvewalBURN RIVERS. Folden's.


## FOR SALE, HOLSTEINS and AYRSHIRES;

Only Bull Calves ${ }^{\text {F }}$
Of the best performing strain
geo. rice, anNandale stock Farm, tillsonburg, ontario.

## Now <br>  <br> E \& F. MALLORY FRANKFORD, <br> 



Stoneycroft Ayrshires Choice young bulls and heifers of the very best breed
ing, combining show and dairy quality. Larse Improved Yorkshire PIEs Larse Improved Yorkshire Piss from imported sire StoneycroftStock Farm, Ste. Anne de Bellevue, Que.
$\qquad$
 Hillview Ayrshires For sale: A pumber of frat-clasils bulls and


A.Kennedy \& Son, Vernon,Ont.



Springhill Ayrshires!


 robert mutter e sons, maxvile, ont.

WARDEND AYRSHIRES!|Ayrshires, - Oldesteataliahd herd in Onation





Burnside's Champion Ayrshires



R. R. NESS, Howick, Que.


N AYRSHIRES: AYRSHIRES Bul nad belte chith hoo pro



## DR. WOOD'S <br> NORWAY PINE SYRUP

Is A Remedy Without An Equal For COUGHS, COLDS, And All Affections Of The
THROAT and LUNGS.
Ooughe and Oolds do not call for a minute recital of symptoms as they are known to evaryone, but their dangers are not understood so well. Anst the mosi and the bronchial tubes, are, in the begin ing, but coughs and colds.
Too much stross cannot be laid upon the insidions eurlier stages of throat and lung disense, as failure to take hold at once will canse many years of suffering, and in the ond that terriblo soourge of "Conemmption."
Dr. Wood's Norway Pine Syrup is not Sold as a Cure for Consumption but for alliotions tributary to, and that lung healing virtues of the Norway pine luee with other abeorbent, expeotorant and soothing medioines of rooognized worth,
end ie seolutoly harmloss, prompt and nefo. So groet hat been the succoes of this wonderful remedy, it is only natural that
numerous porcons have tried to imitate it.
Don't bo humbugged into taking anything Don't be humbugged into taking anything
but "Dr. Woods." Pat ap in a yellow wrappor; three pino troee the trado mark;
prion 25 centio. SLIGHTLY mixed. Two correspondents wrote to a country way of assisting twins through the teething period," and "How to rid an orchard of grasshoppers." both questions
The editor answered bot Thaithfully, but unfortunately got the initials mixed, so that the fond father of the teething twins was thunderstruck by
the following advice:
on
plagued by these unwelcome little pests, the quickest means of settling them is to
cover them with straw and set the straw on fire."
While.
Grasshoppers was equally amazed to
Cead : The best method of treatment is -. The best method of treatment is to
give them each $n$ warm bath twice a
day, and rub the'r gums w'th boneset. - [Exchanze.
a case of mataken identity. Mother (viciously scrubbing her small
boy's face with soap and water)-Johny, didn't I tell you never to blacken your
face with burnt cork again? Here I
have been scrubbin have been scrubbing half an hour, an $\mathrm{it}_{\text {Woy }}^{\text {won't }}$ (bome off.
Roy (between gulps)-I-ouch-ain't
-your little boy-ouch! I's Mose, de
colored lady's bov.-IJudge.


As a result of that address, we veteri-
harians to-day tnow, or, perhaps I zarians to-day know. or, perhaps I
should say, have the proots, conclusive and satisfactory, of many things which
we knew before, but were scarcely able we knew before, but were scarcely able
o prove, regarding the transmissibility man of bovine tuberculosis, and vice
bovo-vaccine. And this brings me to vaccination, a
ubject on which I have nothing to say, beyond that, up to the present, the pub-
lished results of inoculation with lished results of inoculation with bovo-
vaccine are, from a practical viewpoint. singularly confusing, inconclusive, and discouraging. The immunity acquired
under the most favorable conditions ap-
pears to be of short duration pears to be of short duration, and any
advantage which may be gained is, to my thinking, more than oflset
danger of spreading the disease. Where cultures of the human type are even more serious. Weber and Tirze,
working under the direction of the GerWorking under the direction of the Ger-
man Imperial Health Office, report, acording to Theobacinated with a human ulture shed human bacilli into the millk for a period of fifteen months.
Let us make haste slowly in work of
this kind, and be sure of our ground be fore we issue any more of these definite pronouncements which make nasty swal-
lowing later on,
I have now briefly and inadequately placed before this Congress my views re-
garding the various methods recommended by scientists for the control of bovine
tuberculosis. While these views may to
Win tuberculosis. While these views may to
some appear pessimistic, they are at
least honest, and have been carefully considered, with due regard to the responsibility which the veterinary sanitarian en
trusted with large interests owes to humanity at large, as well as to those interests. Dogmatize as we may, we ary
still groping, and in this, as in other matters of a like nature, those who have
del ved the deepest are the least sure their ground.
In the meantime, while we are waiting
as I fear we will for some time yet hav as f faar we will for some time yet have
to wait, the discovery of a certain and satisfactory scientific method of dealing
with bovine tuberculosia, let us, With bovine tuberculosis, let us, as prac
tical inen, carry on an energetic camtical men, carry on an energetic cam
paign of education among cattle-owners and the general public. Bovine tuber culosis will be stamped out when indi-
vidual better to keep sound cattle than to lose noney and feed in
tainted with disease.

## niportance of stable ventila tion.

 In this campaign of education thereshould first be should first be taken up a question in re
gard to which veterinarians have hither to, in most cases, been culpably negliwhich veterinarians are behind the age it is that of 'failing 10 insist, at all
times, in season and out of season, on the importance to live stock of thorough
and effective stable vintilation. Hav-
ing beion ing before us the object-lesson. afforded
by the medical profession, and by the
vellous
achievin
helping helping, but acen-air treatment, Hot only cases of tuberculosis, to say nothing of
checking checking the disea e, as is now daily
done in its early stajes, it is nothing
short of tions short of disgraceful that we are yearly
vermititing thousands of valuable ani
mals to become infected. mals to become infected., owing to the
unsanitary conditions under which their
und mats io become intected. owing to the
unsanitary condizons under which their
owners insist on keeping them. Of the
truth of this and
 closely hunsed, and where a proper sy
tem of ventilation is the exception, an not the rule, we almost invariably fin
bovine tuberculosis rampant. In milder
climates, where animals have free acces 10 fresh air, as, for instance, among the
IIrereford cattle in England, it is a rar
thing to find a case of that disase the rances, tuberculosis is unknown, e
cept where it has been introduced some pampered, stane-bred likely to
and even such a one is more lo
recover than to dic, provided the mal ady is not too fur advanced and the firs
winter can be endured. To put the cas (Continued on next page)


BRAMPTON JERSEYS
 sexes for sale, and the largest hered in Canada to choose from. Write
prices and particulars. Long distance telephone at farm.
B. H. BULL \& SON,

BRAMPTON, ONT
$\qquad$



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 DEERSKIIIS CONSIGNMENTS SOLICITED. HIGH PRICES.
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FOR SALE Pure Shropshire Ram and Ewe $/$ Springbank Oxford Down Sheep

 Knowltun, P.Q.

 Oxford Down Sheep, Short hern Gat



> Belmont Shropshires!
> THE CHAMPION FLOCK OF CANADA.
> Just arrived at the farm: We believe, the best selection
of Shropshires ever imported from Britain. If you want flock headers, show rams, field and show ewes and
lambs at moderate prices, visit the Belmont Farm
We import Welsh cobs and She and inspect our flock. We import Welsh cobs and Shelland ponies,
J. G. Hanmer \& C. Hodsson. Props. Belmont Stock Farm, Box 92, Brantford,

OXFORD DOWN RAIMS $\left\lvert\, \begin{aligned} & \text { CLAVFIELD } \\ & \text { Suy now of the Champlon Cots. }\end{aligned}\right.$
 v. A. BRYant, Cairngorm. ont. Box 61, Jarvis, Ont



MAPLE SHADE FARM
 JOHN DRYDN \& \& SON, Brookill, Ont.
plainly, stockmen are BREEDING:
TUBERCULOSIS a great deal faster through neglect of
ject of ventilation
possible to stamp possibe to stamp it out by the pro
miscuous use of tuberculin and the slaughter of diseased anima
OPEN-AIR TREATMENT
TUBERCULOUS
I may be pardoned if, while on this subject, I refer briefly to an experiment
which I have been carryins on for the Which I have been carryin, on for the (43) cattle, twenty-one (21) being dairy
cows, iwenty-eight of which had reacted tuberculin, the remaining fifteen being $\overrightarrow{\text { kept }}$ parently onder open-air conditions since the fall of 1905 . The objects of this ex-
periment, which is of a purely practical periment, which is of a purely practical
nature, are threefold: firstly, to ascernature, are threefold: firstly, to ascer-
tain the effect of open-air treatment upon the diseased cattle themselves; secondly,
to ascertain to what extent healthy ca he, under open-air conditions, are subject
co infection ; thirdly, to ascertain
 ible to rear from diseased cows, kept ithout any precautions under open-air oncluded, nor have its results been properly tabulated for publication.
may say, however, that of the 28 actors, only one has broken down from عeneralized tuberculosis during the three years which have elapsed since the ex-
periment began. One other has been pilled, owing to tutherculosis of the udder. Of the healthy animals kept in
contact with them, feeding from the same racks, grazing over the same
gro nd, drinking from the same pool, not a single one has become affected, and his in spite of the fact that from time
to time animals suffering from generalized tuberculosis have been intro-
duced to the herd, and allowed to mix reely with its original members. The results in the rearing of healthy
calves, however, remind one somewhat alves, however, remind one somewhat
of the Irishman's pigs, which, you will
recollect, when killed, did not woigh as much as he expecte
of the calves dropped and reared by reacting cows, seventy-five per cent. have
so far entirely failed to react. While $t$ wenty-five per cent. have reacted, at
various ages, ranging from four months various ages, ranging from four months
to one year. One calf died at six weks
old from genera'ized tuberculosis, this old from genera'ized tuberculosis,
case being probably congenital. case being probably congenital.
The results of the various tests The results of the various tests of the
orizinal reactors, made at intervals of about six months, and in the last case after a lapse of twelve months, are ex-
ceedingly interest ng, and will, when ceedingly interest ng, and will, when
published, together with the post-mortem notes, merit the careful perusal of those who believe in the absolute reliability of
tuberculin as a diagnostic agent. I might add that the cattle have ha
no shelter but open sheds, and have
with the exception of a few of the weal with the exception of a few of the weak
er individuals, been fed nothing but hay er individuals, been fed nothing but hay
for the three winters during which they have ben under observation.
It shouldo be mentioned that, through an error in judgment on the part of an
over-zealous herdsman during the first over--ealous herdsman during arre in
winter, our ca'ves began to arive in
Dectmber of 1906. the first bein? droppoed Decermber of thermometer was 29 below
when the ther
pero. the others following at intervals, Sometimes very short, until the middle
of March, 1907, and that. in spite of
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$
$\qquad$ The highest medical authorities
ause humanity to get ". closer to na-1
no
ine every possible way. The ad-
antakes of adopting a similar policy in
and antages of adopting a similar policy in
the handing and housing of domestic animals are too apparent to admit of
discussion. Nature has furnished our nnimal friends with every conceivable
ne uisite for protection against ordinary reluisite for protection against ordinary
climatic conditions, and most of the dis-
cases and ases and disalilitities to which they are subjert have been caused by and ow
heir continuance to the irrational articial conditions imposed upon them by
well-meaning but ignorant. or, rather unthinking owners and attendants. I am here, however, to learn, and not
o teach. The problem of the control of bovine tuberculosis is undoubtedty the most serious confronting the veterinary
sanitarian of to-day, and if the labors this section of the International Congress result in its solution, I for one will ef forever grateful.

## GOSSIP.

WILLOWbANK HORNED DORSETS. The unqualifed success in the showings at Toronto, London, Ottawa,
Sherbrooke and Chicago, of the willowbank Flock of imported and Canadianbred Horned Dorset sheep, the property
of Messrs. James Robertson \& Sons, of Milton, Ont., is proot-positive that they have no superiors as a flock of highclass show sheep in Canada-a tribute to
the excellent judgment of the Messrs. Robertson in the selection of breeding stock, and to their skill as expert feeders and fitters. The fiock is now about them imported. For sale just now is a bunch of imported shearling ewes, bred
to this year's To-onto and London champion ram: also a pair of threeram. This is a very choice pair of show ewrs. Besides these there are a,
number of Canadian-bred ewes for sale, number of Canadian-bred ewes for sales
In youngsters, there are 12 ewe lambs, in youngsters, there are thent owes, and all of them got by last year's grand champion all around the circuit. $\operatorname{Imp}$.
Romulus 2nd, said to be the best ram of the breed ever imported. In rams
for sale, there are several shearlings. imported and Canadlan-bred, and three ram lambs sired by Homestead H., the
ram that in 1908 , headed the first-prize Canadian-bred flock at Toron*o. With-
out doubt, this is the choicest offering cot doubt, this is the choicest oflering
out of Dorset sheep in Canada, and partien
wanting anything in that line would do well to look them un. Parties from a distance may place perfect conidence in whatever Mr. Ro'-ertson says about his
sheep, as he represents things exactly as sheep, as he represents the floks won the highest honors, including the open flock
hrize, wherever shown.
last call for the guelph In last week's issue was a short twenty-ight head of Scotch Shorthorns to be sold at the Winter Fair Building in Guelph, on Wednesday, November 4 th
1908. The seven young bulls to be sold are a really good lot. some of them
built on show lines, and bred fit to head any herd. One of them, an English
Lady, is sired by that excellent, big thick bull and splencta sire, Imp. Pric
of Scotland. Another, a Crutckshan
Relon Pelona, is sired hy one of the greatest
sires in Canada. Imp. Scottish Hero and his dam is also imported. The
others are all sired by the Lavender
bred bull, Trout 'reak Wonder a that is not only a choice individual, bu
is proving a capital sire. on blood lines.
One is a double-cross Missio. Village-bred, another a Princess Fairy Cinderella. The females, in age, are:
Two four years, old, six two years old. and thirteen one year old. Among them
are several likely candidites for show honors. All are a big. good lot of the
thick-fieshed, good-doing sort, bred on Fanct fashionable lines. some of them
already pirewinners, and nearly all
ald eligint for registration in the American
Herdmo. Without doubt, this will be
one ai the very best ofering for sale this year. and hould he a drawink-card
to all breeders interested in Shorthorns
from hether rom both sides of the line.

## Cooper's Fluid

For dipping SHEEP.
For washing CATTLE, HORSES
Cures Mange
Cures Mange and Ring worm. Cures Maggot wounds in Sheep.

PPROVED BY THE
bOARD OF AGRICULTURE FOR GREAT BRITAIN

Cooper's Worm Tablets sure cure for worms in CATTLE,
HORSES and SHEEP. Hons and SHE

At the Royal Show England, 1908
In the following breeds
EVERY
PRIZE-WINNE RIZE-WINNER

COOPER'S DIP
CHEVIOT, COTSWOLD. HAMPSHIRE, HBRDWICK,
KENTISH or
ROMNEY MARSH, LINCOLN, LONK,
OXFORD DOWN,
RYELAND, OXFORD DOWN, RYELAND
SHROPSHIRE SOMERSET and DORSE SOUTHDOWN, SUPFOLK. WELSH MOUNTAIN, KERRY HILL We hold written evidence of the Why use any but COOPER'S Write for prices to :

## WM. COOPER \& NEPHEWS <br> 506-507 Manning Chambers,

Shropshires, Cotswolds Oxford Down Sheep




 | $J O H I N ~ M I L L E E R, ~ B R O U G H A M, ~ O N T . ~ H e n r y ~ A r k e l l ~ \& ~ S o n, ~ A r k e l l, ~ O ~$ |
| :--- | :--- |
| Claremont station, C. P. R. |

## I CAN FURNISH JUST Now a large number of extra good

 Shropshire and Cotswold Rams A large nometo of extra kood Shropshire and Cotewold ewes, welve monhso And a few erymoderate prices

Imported horned dorsets|hampshire down sheepl



 Bell 'Phone, P. O. and Stn, (G. T. R.)
 AND COLLIES. ewes, which must be sold, as the fock is seing reaceat.

SUNNYMOUNT BERKSHIRES
 good lot. Also younger ones.
not akin. JOHN McLEOD.
 C.P.R. \&.GR MitenP.O.Ont. Ninw CHESTER WHITE SWINE
and shropshire shebp
Glite for prices.
glanworth, ontario.

| MONKLAN <br> ser the cailis, foin uike mom JAmes WILSon \& sons | D YORKSHIRES <br> turing lind. The sort the farmers wank sale. 100 sows bred now. <br> FERGUS, ONTARIO |
| :---: | :---: |
|  | Large White English |
| mea | Yorkshires |
| OTHO IMPROVED CUESTER WUITES | Onteme off |
|  |  |
|  |  |
| ELMFIELD ${ }^{\text {som youg piper }}$ |  |
|  |  |



## Dr. McLaughlin Talks About <br> His Electric Belt



Dear Sir,-1 write to let you know that your Belt has
cured me, and I am entirely satisfied with your treatment. Then 1 gave it to my sister to wear, and she, too, was en-
tirely cured, after theing treated by many different doctors,
and also being told that and also being told that sole would have to go under an
operation, to which she would not consent. She used your Belt, and was entirely cured.-JOHN W.
THIB IULT, Bruce Mines, Ont.
When your stomach, liver or digestive ongans get out of order it is is or digestive
lack the necessary electricity to enable them po perform their regular functions. The
breaking down of one of those organs nearly breaking down of one of those organs nearly
always causes other trouble. Nature can't
cure then, because your body hasn't enough electricity to do the work, so you must as-
sist Nature by restoring this electricity where
it is needed. My Relt does this while you sleep. It
saturates the nerves with its glowing power, saturales the nerves with its glowing power,
and these conduct the force to every organ
of your body, restoring heallh and tissue of your body, restoring health and giving
strength to every part that is weak. Electricity is a relief from the old system of drugging.
It does by natural means what you expect drugs to do unnatural means. It removes the cause of disease, and
after the cause has been removed Nature will do the If you are skaptical, all I ask is reasonable security

## PAT WIErev OURETO

with illustrations of fully-developer men and women, show-
ing how it is applied. lansuage many things you want to know, and sives alain Consultation Free. Wednesdavs hand Saturd. ys to $8.30 \mathrm{p} . \mathrm{m}$. DR. M. S. Mclauchilin, 112 Yonge St., Toronto, Can.
ifo-histories in place of orations, and the hif-histories in phace of
scheme works well.
io Our boys have an organization known as the Agricultural Club, and our girls have an organization known, and girls hold township and co meet ings from time to time. They ha
secured the help and co-operation secured the help and co-operation of
some of the most able and noted speaksome of the most able and noted speak-
ers in the State and nation. These sleakers have talked to them on various subjects connected with the home
and school. The parents are always g'ad to git a chance to atave brought messages of instruction and enthusias turn hew hitit in in schools and in our farm homes. bulletins from the State College of Agriculture, and from the United States Department These bulletins, to zether with the outlines from the county superintendent. have given them the source from which to work. It would take a volume to tell of some of the unique things which
have been done by some of our teachers have been done by some of our teachers tion. This phase of education has fur-
nished a means in a number of cases for nished a means in a number of cases for
teachers to get hold of he bad bos. It teachers to get hold of the bad boy. It
has helped to do away with truancy, work interesting and attractive. It has
helped to connect the home and school more closely than ever before.
i. One of our most successful plans is Oo arrange oach year for a few visits
to
a to prominent, but attractive and up-to-
date farm homes. Here we meet, and, date farm homes. Here we meet, and,
under instruction of teachers from the under instruction of eachers institu-
College of Agriculture or other
tions, of learning, we study live stock, tions of learning, we study live stock,
soils, buildings, machinery and products on a real farm. On this great day we
study weds, and conduct judging schools stury wreds, and conduct judging schools
or contests in domestic science, corn, and live stock. Hundreds and thou-
sands of our farm people turn out to
sen see the boys and girls take part in
these ann"lal short courses. Parents,
teachers tese ann and short courses. Parents,
teachers and all go home with
new interest in and interest in farm work, farm
rural schools, and farm homes. Agricultural education has been
wonderful factor for good in making our boyserfur factor for good in making our not a place to be dreaded, but a place
for grow he and progress, a place for for growth and progress, a place for
comfort and happiness, a place for free comfort and happiness, a place for free
dom and liberty, a place of opportunity and possibility.

GOSSIP.
SUNNYMOUNT BERKSHIRES.
Years of jud cious selection of bread Years of jud cious selection of breed-
ing stock has brought the Sunnymount herd of Berkshire swine, the property of
Mr. John Mcleod, of Milton, Ont the high standard of type and quality
of this herd, which easily ranks among the best in Ontario. The stock boar is
the splendid quality hog, Imp. Diamond type and superb quality, would make many of the best of the other bacon
breeds look cheap. Among the dozen or special mention. Imp. Kingston Maid Monmouth Imp Stration Lizzie is also suckling a litter got by Lord Roberts; got by Imp. Lord Monmouth. Another of the extra-choice sows is Nellie 2nd, a
daughter of Premier Longfllow 3rd. Out of her, and got by Imp. Lord Monis now suckling a litter by Lord Rob-
erts. All these young sows mentionef as well as a number of others, are fle
sale. In boars for sale, are four yearsaie. Ito of them got by Imp. Lord
lings, twth
Monmouth, and out of Maid; the other two, sired by Kingston
Lad, and out of Imp. Kingston Rose. tore are a quartelte of stock boars fit
to head any herd of Berishires, being
large. smooth even His of quality, $\begin{gathered}\text { Parties wanting some }\end{gathered}$
(hing choie in werkshires should write
Mr. McLeod. The Laird-Well, Nonald, I met the pas-
twr in London. He seemed to be bene-
fiting by the change. Donald-Sae are


[^0]:    realizing their idea! lum dashed to form

