## PAGES

MISSING

# Che <br> -Persevere and Succeed.' <br> <br> Farmer's Jod 

 <br> <br> Farmer's Jod}

## EDITORIAL.

## Do Not Lose Faith in Fresh Air

his issue a review of the bulletin, "Stable Vh in lation," by M. H. Reynolds and C. C. Lipp, of
the Minnesota Experiment Station. The subject the Minnesota Experiment Station. The subject is so very important, and all information pertain-
ing to it of such consequence in our present discussion of the stable question, that we decided to run the risk of printing it with this caution, est some may misconstrue it
uces consider a series, adduces considerable scientific information bearing preliminary experimentation with a couple of certain each of which was kept for irregular alternate periods in a " closed stall," where the ventilation was very bad; and in an open stall where it was pretty good. Various laboratory methods keeping the animals in the closed stall effect of the results have shown a surprisingly small effect of bad ventilation, and the opinion is ventured that in northern climates it may be possible to get along in winter with less ventilation
than commonly advised by writers. The fact than commonly advised by writers. The fact
was brought out that the animal system is very was brought out that the animal system is very
adaptable, and when either of the steers was in adaptable, and when either of the steers was in
the closed stall for a time he became accustomed to the conditions and evidenced no apparent diswhi
While the investigators are to be congratulated upon having essayed this difficult task of deciding what may be accepted as a minimum standard of ventilation, it cannot be emphasized to
strongly that the experimenta ported on has been of such a nature that one would not be justified in drawing positive conclusions therefrom. Neither of the steers was in the closed stall for more than a few weeks at a time, hence there was no evidence to show what would be the ultimate effect of continued confinement in it. We have in mind instances where and did well enough for a time, then stiffened up, and were only brought around by turning into an airy shed for a time and given exercise. There sider, viz., the influence of bad ventilation on the sider, viz., the influence of bad ventilation on the
health and vigor of succeeding generations of stock. It is conceivable that a slight impair ment of the stamina of one generation might prepare the seed-bed for tuberculosis in the next o ing the a later one. The notable success attend mans indicates the extreme probability that it would be good as a preventive of a similar dis ease in the lower animals.
So, while we welcome the efforts of scientists, clusions without practical feeding tests covering the lifetime of several animals, and, better still, generation. Most people have a sort of intuitive faith in fresh air-though some do not manifes it in a very practical way-and we surmise the deniable evidence to the contrary, let us not lose faith in fresh air, and when the scientists have got their bearings, we shall probably find we have
While the subject is being settled by scientists, what is the proper attitude for the stockman? Surely, to keep away from the danger-line. A chree applicants how near he could drive to the inge of a precipice and not go over. " One
inch," was the reply. No. 2 ventures "Six ches," but the third man proclaimed his in-
tention to drive just as far from the edge as he ing number of people are coming to regard it as possibly could, and he was at once entrusted being, in certain cases, the lesser of two evils

## Ontario Wants Cheap Power.

nesday, January 2nd, the ratepayers of on WedCity voted to enter into negotiations with the Ontario Government's Hydro-electric Commission to secure cheap electric power from Niagara Falls, on a the Provincial Legislature. The by-law carried by an January 7th, over a dozen on Tuesday, and towns in the western portion of the cities took plebiscites on similar by-laws the Province a solitary exception, the issue resulted in a sweep ing victory for the desired measure
The by-law so emphatically endorsed does not auth any municipality in any way. It simply negotiations local councils to go ahead in submission at a later dateped, may lead to the proposition. The fact that the by-laws do not tie the municipalities up to any particular scheme doubtless accounted in some measure for the ease Yet, the they passed.
Out the whole " thagnifence of the majorities through out the whole " Niagara zone" means something cumstances moters of the electric-poworious fact that the pro Falls poured out their money lavishly in Niagara hoodwink the pop The la methods, and the shallow transparency of the arguments, or rather protences, were in insult the intelligence of the Ontario public. The On tario public resented it. It was not convinced by anonymous articles, paid for by the PellattNicholls syndicate, to inform (?) the electorate concerning the points at issue. The Ontario public wilfully declined to be enlightened regarding the immense economy of power at $\$ 35$ per horse-power (which is what the power syndicates in their beneficence, would charge us) over the same kind of energy at $\$ 15$ to $\$ 20$, which is the instrut we may expect to get it at through Commission The or ly ahea terests, deaf held up both hands for its own inwhich need the morey millions of watered The people of Stock
Convinced that if they want pretty thoroughly price that will make it more economical at a coal, they must see to it themselves. The de velopment of electric entrgy requires so much capital, and the water-power franchises are so easily cornered, that to leave it for competition among capitalists to fix prices of power, would simply be to put ourselves in the grip of an inexorable monopoly that would maintain the price or electric power at the standard fixed by coal and destroy the scenic beauty of our splendid aterials, with but the merest incidental benefits The pople as a whole.
The power by-law majorities are a significant public opinion, which is of the irresistible tide of the masses, as which is asserting the rights of few, and demanding that. Whe privileges of the few, and demanding that. Were private control
fails to insure public services at reasonable cost public control must supersede to either own cost, operate, or, as in case of the present move and to regulate. Public operation of public utilities is a way beset with many dangers and disadvantages. It is a way at which the average man inclines to look askance. But a rapidly-increas and it will pay the beneficiaries of public fran chises to pursue a policy of more intelligent sel fishness, and seek to promote their interests by which is earnestly the welfare of the public vide. Government ownership of railways and telephones, and the municipalization of water works, lighting plants and stret-car services are encouraging developments of the age, but over shadowing all in immediate importance is the manifest determination to bring power companies to time.

In Search of Pacts About Stable Construction.
Three weeks ago two members of our editorial staff journeyed forth from London into the southeastern corner of the County of Middlesex, not with lanterns in search of an honest man-though let us hope we encountered many-but with eyes open ears pricked, on the qui vive for ideas in arns.
ventila quest for a complete and satisfactory some of the system was not entirely successful, and chinks for admission of fresh air, and feed chutes for outlets. The best intake system was that in the MacVicar barn, a plan of which appeared in The Farmer's Adrocate of February 15th, 1906. The air is admitted from a revolving cowl on the roof through a 80 -inch galvanized-iron pipe down into a cement air cistern in one end of the barn. Thence tile lead forth under the floor, being doubled back and forth under the alleyways, so as to make the air
traverse as much distance as possible before being traverse as much distance as possible before being admitted into the stable. This warms the fresh outlet system is nefore diffusing it. But an is as thorough as it should be Th viliation well satisfied with what they have downers are considering such at present In this connection present
note that many of the stables not be amiss to spondents have been writing about have correspecial system of ventilation, but still are fairly well supplied with 'fresh air, owing to numerous doors, windows, feed chutes and other openings A more systematic provision for admission of fresh air is, however, generally conceded, and a consideration of the MacVicar system is eardestly advised.
One of the good ideas we found generally dopted in the determination to simplify things except a drop of having no front to the mangers raised cement floor of the to ten inches from the thought he could feed feed passage. One man manger as easily as this contrivances. As no lumber portion of the trough from her ald mangers are easily swept clar. Thoors, his long mangers in most cases consisted The backs of the inch plank on edge, into which six or eight chions were fastened. In other cases, whe stan ties were used, a horizontal bar serve to the cattle back into place A feature in several ne sile where young catables was the pens a six or eight together. The were running loose along the feed passage to fasten the cattle whil feeding. The general verdict was that this while tem requires a great quantity of bedding, if the cattle are to be kept reasonably clean, but it ing up the urine, ing up the urine, and the tramping of the stock preventing any great deal of fermentation be-
tween times of cleaning out, which is done in
the Farmer's Advocate
and Holar Magazine
the leading agricultural journal in the DOMINION.

THE WILLIAM WELD COMPANY (Lemtroo)
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W. W. CHAPMAN, Agent, Mowbray House, Noffolk Street,

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THE WILLIAM WELD COMPANY (Limited
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most cases once a month thereabouts, the ma nure being loaded direct on wagon or sleigh and trying it incline to endorse the men who are young cattle will make better gains loose than ied.
A most noticeable and encouraging feature in the barns visited was the scrupulous regard for along the tops of walls. In many were hinged so that they might be swung back A
table was a manure puttor fachio nearly every straight drop from the platform and having assageway behind of two or three inches to the the old-fashioned square gutter, and no trouble with slipping is experienced. The plain-slope gutcer has been recommended for years in "The
Farmer's Advocate," but we were surprised to in the district vietely
te stonewh cement-con tion thereof-were in evidence. Those using the ery highly of them from the standpoint spok ness. One man expressed the opinion, in which with cement mortar, would make a stronger wall than brick. Whether it would prove as good a hough it would doubtless be better than solid

Where the water supply has been introduced into the stables, individual drinking basins had of opinion that catue were the better for wettin tanding the whole winter indoors
Every where
of interest in the subject of s:able construction,
venience of arrangement for feeding and genera care, and ventilation, but much more definite re sults have been accomplished in the former direction. The need for the latter is admitted, par secure it is the problem be secured, but how not yet clear. Details of our tour will be found in the Farm Department of this issue

## HORSES.

## Live-stoik Research

rie Wisconsin stallion Law.
In the midst of the discussion of the prob-
lems connected with our horse interests and of the proposed stallion license and inspection act, it thinking and doing. In a bulletin, just to hand on "The Horse-breeding Industry, of Wisconsin," by A.S. Alexander, V. S., Agricultural College status of the horse-breeding industry in tha State, a statement of the laws pertaining to horse-breeding in Wisconsin, an outline of the
author's views of the effectiveness and utility o the existing legislation, and a suggestive discus sion of propositions looking to ward the improvement of the present law, and of ways and means Conditions in Ontario are not so dissimilar from those in Wisconsin but that we may receive assistance from a consideration of the proposals
submitted. Dr. Alexander is one of the eminent veterinarians of the United States, and his opinions and conclusions are worthy of thoughtful The Wisconsin law provides (1) that all stallions standing for service in the (1) that all stal must be enrolled in the State Department of Horse-breed-
ing, and that certifioates of such enrollment must ing, and that certifioates of such enrollment must (2) that, before obtaining such license certificates,
the owners shall make oath that their stallions
are free from hereditary or are free from hereditary or contagious unsouns
ness or disease, or present a certificate of sound-
ness signed by a duly-qualifitid veterinarian, to-
gether with the pedigree or other necossary ness signed by a duly-qualified veterinarian, to-
gether with the pedigree or other necessary
papers relating to breeding and ownership (3)
that the officers of the Department shall accept that the officers of the Department shall accept
such animals as pure-bred whose pedigrees beat
the signature a government-recognized and approved studbook (4) that owners of stallions shall have ptudbed in
certain conspicuous places posters bearing copies of the certificate issued to thern by the depart-
ment; (5) that the license certificates shall be
of a certain specified form for (a) purebracl of a certain specified form for (a) pure-bredl, (be)
grade, (c) cross-bred stallions; (6) that a fee of
$\$ 2.00$ shall he paid by the $\$ 2.00$ shall he paid by the owner of the stallio
to defray expenses of his enrollment, etc, (
that violation of the act shall be punished .hy fine of not exceeding. fifty dollars. Another sub-
section provides that the stallion owner shall section provides that the stallion owner shall
have a lien on the colt to the amount of the
service fee. The author of the bulletin believes that the
law has been of decided benefit to the horsebreeding industry of the State in that (1) it has
aroused interest farming community stimulated discussion in the
breeding business ;
(2) it has with the horseeradication of erroneous beliefs, and called atten(3) it has drawn atten tion to the importance of
soundness, not only in the sires, but in the brood mares as well: (4) it has led to a greater knowl-
edge of the character. of pedigree registry, and
has assisted in estallishing the corgect pedigree certificates: (5) it has caused discussion
relative to the value of pure blood to the un-
wisdom of indiscriminate ant to the fallacy of using horses of poor indiv. indual
quality and merit: and ( 6 ) it has instituted a
$\qquad$





 reedine. and that such information mieht of lion certificaters that thes mioht more of the stal
pick and chonsently used. The bulletin itself contains a a compthey state. together with a statement of the 'In ther sugucsation the facts atown moted are not withont
 W. think your Christmas Ximenter this vear is
much superior to any of



In the course of a leaflet, recently issued by he Canadian Department of Agriculture, the folpoints to loor in a horse : If a horse is short-ribhed, middle, and is nearly always a poor feeder. He has not the stomach to contain succulent food to
serve him from one meal to another serve him from one meal to another. A light-centered horse seldom weighs woll, and
weight in a draft horse, if it comes from bone, sinew and muscle, goes a long way to detormine his commercial value. and has a short back, he must have the longth below from the point of the shoulder to the back of the thigh. When so built, he will stand the f he has a long, loose back
The front feet and hocks are the parts of oither a draft or a driving horse that come directly ontact with the hard work, and unless they are much impaired, and his commercial value very much lessentd.
Before using a stallion, get the groom to lead and see that he picks up his feet and places them on the ground properly, travelling in both trot and walk clear and clean, not striking the ground
first with the toe and then bringing do heel.

The feet should be large and waxy in appear ance. The sole of the hoof should be concave
the frog spongy, plump and elastic, because it acts as a buffer to take the concussion from act See that both sire and dain have sound feet, free from flatness, brittleness, and are not contracted. le, and whose hocks are puffy and fleshy-looking should be avoided, as such hocks are generally as ociated with a coarseness throughout his whol

New York Statlion Law. On complying with the provisions of this on each mare served, together with the foal of Such mare from such service, for the amount
agreed on at the time of service agreed on at the time of service ; or, if no
agreement was made, for the amount specified in the statement hereinafter required to be filed in within fifteen months after such service he files a
notice of such lien in the same notice of such lien in the same manner and place
as chattel mortgages are required by law to be Tiled. Such notice of lien shall be in writing,
specifying the made, the the person against whom the claim is
of the po the same and of the property on which same and a description
such lien shali terminate claimed and
mont months from the date at the end of eighteen that time an action is commenced for the enforce-
ment thereof, as provided in ment thereof, as provided in the code of civil
procedure for the foreclosure of a lien on chatel stallion and charging a fee for his services, or a before advertising or offering such services, shall,
pullic, file with the clerk of the county in which public, file with the clerk of the county in which
he resides or in which such stallion is kept for service a written statement giving the name age, description and pedigree, if known, and if not, stating that the same is unknown, of such
stallion, and the terms and conditions on which
he will, station, and the terms and conditions on which
he will serve. On filing such statement, the
county clerk shall vided for that purpose and issue a in a book bro- tificate to
such person that such statemont such person that such statement has heen so filed
and recorded. The person having the custody and
control of printed of such stallion shall post a written or stallion is kept for service.,"
Neglect or ment as required in this article, or false state-
ment of the pedigree of such stallion fure Tpes for the sedigree of such stallion, of surieitatall
the delinquent liable to a plalion, and renson deceived
rauded therel, for the damages

## Stallion Law of Montana

Trol of any stallion, who whall charge a fee for
the service of such stallion, shatl
the service of such stallion, shall, hefore offering
or adertising such services to the public for any
fie rewart fee reward or compensation, file public for any
of the county in which owner the clerk reside. or where which owner or owners or agents orvice, or a where such stallion shall be kept for
ge, pedigree and statement, giving the no
publish a false or fraudulent pedigree or recond
or statement of any kind regarding a stallion, or
who who shall neglect or refuse to comply with the
above provisions, shall forfeit all fees for the services of such stallion, and the person or per-
sons who may have been deceived or defrauded by such false or fraudulent pedigree or record statement, may sue and recover in any court hav
ing jurisdiction, such damages as may be show ing jurisdiction, such damages as may be shown
to have been sustained by reason of false repre sentation and fraud.
Whenever the owner or agent of any stallion
shall have complied with the foregoing provisions shall have complied with the foregoing provisions
of this act, the services of such stallion shall be come a lien on each mane served, together with foal of such mare served from such service, in a amount agreed upon between the parties at the to by them, in such amount as specified as servic stallion or stallions in the statement of the or agent filed with the county clerk, pro vided a notice of lien shall he filed within twelve
months after such service. Such lien shall nate at the end of the year from the shall termi notice thereof, unless within that time an action
shall be commenced for the enforcement thereof.

## Care of Horses' Feet.

many horses go wrong in their feet, when the so sults of careless or imcompetent shoeing and the
amount of usage the hoofs experiencer sidered. Even horses which are driven slowly con subjected to almost as much risk from the effects of wear and tear as is the animal which moves faster; for, though the latter, and especially if
he happens to be a high mover he happens to be a high mover, places his feet
down harder than the other, the slow them down considerably oftener. It has been
calculated that calculated that a horse working at a slow pace lion times in the course of a hard day, and about eight million times during a moderately hard one, whereas an animal worked at a trot puts down
his feet some seven millin time his feet some seven million times if he has a hard
day out, and about half as many in the cours a moderately hard one. Assuming that these ogures are worthy to be accepted-they are the work of an eminent veterinary authority-an idea wion to which horses are liable with the of concusresult that some owners will devote the possible tion to the treatment of their animal's feet, especially if they work on hard ground. Unfortunatetil trouble arises without adopting prowait uncautions for ensuring the proper preservation prethe hoofs. It may be that the farrier is allowed walls of the hoof. shoes or to rasp the outside
The drawing-knife may be directed against soles, and littleknife may be taken to insure a shoe of a proper design being itted to the horse. Now and then, too, a horse ginning to require treatment, and then serious careful treatment would have put matiers richt Such diseases, for instance, as thrush, which often
does not cause lameness until it assumes ment, and wet many cases occur of tly to treat nent, and yet many cases occur of their presence
weing ignored on the grounds that the horse is
at lame, and therefore it is unnecessary to at-

## Where Wou'd the Line be Drawn?

I see a great deal written in " The Farmer's
dvocate " about the proposed stallion-license act. For my part, I think we don't need any thing of the kind. We always like to hear this
fair Canada of ours called a free country. anada of ours called a free country. If it
stallions it are fice.
sensed, who is to pay the writer asks: "Are we prepared to discard It stallions not having a registered pedigree ?"
fe thinks not. Well, if not, where will we draw
he line? One man would think his torse good as his neighbor's, and the inspectors might some men more than others in that case. we ever get such a law, up goes the stallion By putting their heads together, they could almost any fee they saw fit. I don't bein that kind of thing. I think demand and
$y$ should rule prices. To my mind, we have enough of unions and rings being formed,
what would this encourage but something of
ame? There is a great ame? There is a great deal something of about
stallions, but what about scrub mares? it not be just as fair to prevent the stallion. sing them, as well as the stallions? I
good many owners of mares know about good many owners of mares know about
what kind of a stallion they want as what kind of a stallion they want as
the inspectors do. The argument has
d that the men who use the scrub horse donat the men who use the scrub horse
dong so. That only makes the colt
good horse worth so much more; and yet
HE FARMER'S ADVOCATE.
hees fit to raise the pay the loss to the man who conclusion, I am not a stallioner, and am not all. I have taken " "The see fair play given to for years, and think it the best farm paper I have seen.
Halt

## ton Co., Ont.

## Mare Counts as Well as Horse

## ditor The Farmer's Advocate

I am much interested in the discussion in your columns regarding the lien act and licensing of others think such. Now, I, like a great many Surely the farm a law entirely uncalled for century, with our Institute, in twe twentieth courses in stock-judging at our Agricultural lege, are capable of selecting the sire they think fit to use, without having a Government in spector. What right has the Government to condemn inferior stallions any more than inferior sires of any other class of live stock. And if such a law were passed, what would become of al he stallions that would be condemned? What bout the man who has bought the imported ported ? and give some importer a the little haul out of him in replacing make another It looks as thourh that is what some are Now, I think the great trouble is, too many of our farmers have no ideal in mind of what they are trying to produce. They are continually using sires of different breeds on the same mare,

A Well-matched Carrioge Toam.

## A Law that Failod to Pass.

 correspondence running through and voluminous Advocate "for the past two months, our readers will be interested in the efforts of certain state south of the line to pass legislation relating to tempt was made last winter to have such a law placed upon the statute books, but the attempt ended in a failure to accomplish anything. Fol lowing is a draft of their proposed law, just tohand, by courtesy of State Veterinarian Paul Fischer:
BILL TO ENOOURAGE THE BETTER BREEDING OF HORSES IN OHIO
Be it enacted by the General Assembly of the State of Ohio
Sotion 1. Bofore any stallion in the State Ohio shall be used in public servioe, the owner or owners thereof shall procure a license permitting such use from the Secretary of the State Board contain the name, description (buch license shall contain the name, description (breed, age, color, marks and height) and pedigree of the animal State Board of Live-stock Commissioners.
Section 2. Before any stallion shall be licensed
or use in public service, the owner or owners for use in public service, the owner or owners
thereof shall make written application to the Secretary of the State Board of Live-stock Commissioners for an inspection of such stallion. Applications for licenses shall be made by all service on forms provided by the Secretary said Board, and a fee of twenty-five dollari $(\$ 25.00$ ) for each stallion to be inspected shall occompany such applications, to cover the expense receipt of proper application and legal fee, the $n$ and legal fee, the
said Board shall
appoint a qualified appoint a qualified
inspector, or ininspector, or in-
spectors, to inspect stallions and report to the Secretary of said Board as to
age, health, soundage, heaith, sound-
ness, height, weight
and heart-girth of and heart-girth o
the animal or ani
mals inspected Section 8. stallions that have been duly certified
by the authorized inspectors to buthorize free from unsoundness or transmisthat were at least on the first day of
June preceding June preceding the they are intended service, shall be
licensed for such
service
with the result that they find themselves with a than when they started, and breeding for years ity of the sires used. If farmers would keep their good young mares to breed and not let the horse-dealer get them, we would soon have a
better class of horses. What is the sense of con demning blemished stallions, as long as the farmer is allowed to breed the blemished mare; the one just as bad as the other. I will not parevery man decide for himself. But once you have decided, stay with the job, and don't be forever changing from one breed to another. We need all
the different classes of horses, and a good horse of different classes of horses, and a good horse matter to which class he may belong. As for the lien act, I do not think such an act is needed. If stallion men would have one fee, and use every-
body alike, I do not think there would be any trouble. The farmers in this district be any binding down, any way. Now, brother farmers, this is your time to speak, before it is too late. Are you going to let a Government official step you going to do it yourself? ? DICKIESON, Jr
Wellington Co., Ont.

A class for American Carriage horses has been provided in the prize-list of the Iowa State Fair. trotting-bred horses of suitable size, conformation. style, quality and action for heavy-harness
service. Size, 15 hands and over- 15.1 to 15.3

The State of Minnesota has no law relating to the licensing of stallions, or giving the stallion
owner a lien on foals, but there is some agitation owner a lien on foals, but
looking toward that end.
shall expire on the last day of February of the year following their date of issue. illy
Section 4. The licenses issued under this act shall be of two classes, viz.: Class A., including recognized by the United Segistered in studbooks Agriculture. The official certificates of studbook registration must accompany applications for bred or grade animais, and B., including crossistered in studbooks recognized by the not regStates Department of Agriculture
licensed stallion in public service shall of east in a conspicuous place, clearly legible, printed in a of license of said stallion, not less than ten by'
sixteen inches in size, both within and sixteen inches in size, both within and without
the main entrance or door the main entrance or door leading into every
Section 6. Any stallion that is found, upo Section 6. Any stallion that is found, upon
inspection, to be unsound or affected with trains-
missible missible disease, or of immature age, shall not owners thereof shall be duly notified by the Secretary of the State Board of Live-stock Commis
sioners to withdraw such stall ice at once. A certified report of all public servof licensed, as well as of rejected, all inspections
be kept on filions shall be kept on file in the office of the Secretary of
said Board. Section 7 Any person or firm, who shall use, or permit to be company or stallion in public service, without having any plied with the requirements of this act, shall
upon conviction, be fined dollars for the first offense not more than fifty two hundred dollars for each and not more than Section 8. All suits for the recovery of fines
under the provion under the provisions of this act, shall be brought

Commissioners, in the name of the State of Ohio thend of the State. of Lection 9. The Secretary of the State Board nually a report of all stallions shall publish anlicensed or rejected, specifying the class to which each stallion belongs, name of owner, location of weight, condition of soundness, age, heigh with a statement of all moneys received on act count of license fees, and all expenditures made his act and with carrying out the provisions o credit of the agricultural fund

## LIVE STOCK.

## Sorie Radical Conclusions About Ven

 tilation."Stable Ventilation" is the title of a recent
bulletin by M. H. Revnolds bulletin by M. H. Heynolds and C. C. Lipen of
the Minnesota Agricultural Experiment Station
It the Minnesota Agricultural Experiment Station.
It is announced as the preliminary one of a series
of bulletins giving the result oo bu announced as the preliminary one of a series
tain importaning the the results of a study of certain important and perpesexing of problems in con-
nection with the wide subject of stable ventilahection with the wide subject or stable ventila-
tion. The author is to be congratulated for having hit upon an important line of work and prosecuted it in an original manner
The real problem at
is compatible wroblem at issue is, " How little air is compatible with normal health and comfort of live stock, and with economic feeding, in northern
climates during midwinter ? stable ventilation miduring the summer question quires little consideration." Mummer season rebulletin are warned not to take it as an argument simply is to ascertain how much fresh air is aim tually needed, and what, if any, are the effects of comparatively foul air. The results of the whole comportant than abundance of that light is more bad effects commonly ascribed to bad ventilation may be due, in part, to influences commonly as sociated with but not necessarily attending bad ventilation; that the animal system has a wo
derful power of adaptability to can thrive fairly well in an atmonditions, an ing much greater quantities of carbon dioxide and ther products of respiration than admitted b n carrying on this wort.
pared stalls were utilized, so that vecially-precould be controlled and known within very clos
limits. The stall concrete, with sewer connections, hard bricicing on and board ceiling covered with heavy musk walls, walls and ceilings coing painted. There was the closed stall, 9 ft by 16 ft .8 in . on the floor, and
$8 \mathrm{ft} .2 \mathrm{in}$. high It had one window 22 in. wide by cubic feet of air facing south, the door fitting very tight high, and rangements for feeding and watering were such
that not very that not very much air could enter. So com-
plete was the provision for keeping the stalls
close, that the previsent close, that the previsectange for keeping the stalls
up as high as 2.67 , which is veron dioxide ran much greater up as high as 2.67 , which is very much greater
than found even in badly-ventilated stables. The
air was sat arated air was saturated with moisture, which gathered
treely on ceilings and walls, and here and there in tiny streams.
a building, and had two window-west corner of
kept open about 16 inches each Three animals were used, bein
in the closed and the open stall, and the turns studied at the end of periods varying from results were Yellow Jim, a grade Jersey steer anis used old when the experiments began, in April, 1904
Red Jim, Red Jim, a grade Shorthorn bull, 8 months old
when the work degan When the work began, and, later, a third animal, Brindle Jim, a grade Guernsey, was used when
needed to vitiate the air of the closed stal fore putting one of the other animals in.
here it may be well the here it may be well to emphasize that in
much ret to ments summarized below, for the ren the experineither summarized below, for the reason that
continuousle anims was kept in the closed stall continuously for more than a few weeks at the the
outside. Subsequent outside. $\begin{aligned} & \text { Subsequent and more complete research } \\ & \text { may }\end{aligned}$ append the author's summary
The problem in inferencts. W The problem in this present study is : How
little air is compatible with normal health and little air is compatible with normal health and
comfort of the stock and with economic feeding in norther climates during midwinter? ? The ques
tion of stable with tion of stable ventiliation during the
son requires very little consideration
son requires very, little consideration
Stabmer air air accord
and shows a variation of CO 2 b betweun authorities, 057 per cent
and 1.07 per cent and of oper cent. It is difficult to estimate the
valuese figures because of lack of impor-
tant details. tant details. In our own work we had stable air
containing as high ans containing as high as 2.67 per we had stable air
narily, in this work, when Or narily, in this work, when closed-stall conditions
were very bad, the per cent. Would range between were very bad
varying periods up to a maximum then did no increase further, but very frequently decreased without added ventilation.
Respiration, as related to ventilation-a physiwhich gases are taken from the condition under blood and released to the tissues, or to the the This is mainly a question of chemical combina tions, assisted or hindered by varying partial
Injurious effects of

Injurious effects of
the teachings on the subject gives -A survey or conclusion that the popular impression concornabl the general harmfulness of foul stable air may be in a general way, correct; but the explanations
may be very gravely doubted.
shows that of animails may evidence on this point vantage and frequently without harmful effects, atmospheres varying widely from the normal in A rexygen or CO2, and perhaps in both.
Agriculture for the Yearbook of the Department of on the human by Dr. Atwater, on "The Respira tion Calorimeter," which strongly supports this
conclusion, and and original work in progress anates our results in periment Station for severeral years. all, to define the it seemed necessary, first all, to define the injurious effects of orst of
chernically foul stable air, and to establish if chermically-foul stable air, and to establish, if
possible. some standard or method of measuring
such physiological such physiological effect. We wish to establish,
also, if poossibl above which contanne of permissible impurity harminl : also to establish a standard of normal
and there were no variations from the normal methods used detected by laboratory and clinical Suggestions clusions.-Normal health is defined

$$
\begin{aligned}
& \text { 1. Historical statements concerning the un- } \\
& \text { wholesomeness of badly-crowded and unventila } \\
& \text { onol }
\end{aligned}
$$ stables are conced y-crowded and unventilated as to actual facts, but the accepted explanation may be seriously questioned.

2. That when animals confined in unventile stables are injuriously aconined in unventilated stabes ard ituriously affected, it is so because on
other conditions and causes than those accepted. ordinary stable amount of $\mathrm{CO}_{2}$ present in any is not seriously important. atmosphere is a very unreliable present in the 5 ienic conditions.
ganic matter" ${ }^{\text {m }}$ mysterious and oft-quoted "d ganic matter," if harmful, may be so because
iurnishes favorable conditions ing bacteria.
3. That a well-lighted stable with poor venti ation is superior, from a sanitary standpoint,
to a well-ventilated but poorly-lighted the injury, if any there be, apparently comes from disease-producing bacteria and various other
causes, rather than causes, rather than from harmful gases. not be made with any special consideration for
CO2.

## Sheep on the Farm.

The value of sheep on the farm is certainly, by many, not properly understood or appreciated, in
these days of high prices and scarcity of labo To stock ${ }_{a}$ farm


Nelly 5th of Hensol.
Two-year-old champion Galloway at Smithfield, 1906. Owned by T. Biggar \& Sons.
no large outlay of money, and the
risk is small, sheep, if well managed and cared for, are not more likely
to die in their owner's hands than other stock, and,
if occasionally one if occasionally one
dies, the loss is not a heavy item. The land is made more itable, with less labor and expendisheep than withe of other of the any If rape is sown a field or two, in stead of having the
old-fashioned sum-mer-fallow, two ob-
jects will be accomplished, viz, the ridding of the lan
of noxious weeds and the enrichment there are many hills, in a bare many hills
termine the least amount of air compatible with Method of Work.-Certain specially-prepared
stalls were utilized so that ventilation Labtrolled and known within very close limits certain intervals, and results carefully taken at in comparison. This feature is to be published in subsequent bulletin. We published and white cells, estimating inded counting the red coagulation, and specific gravity of the plociod of and cork urine was taken up, making analyses and comparisons under similar conditions as for for ral, and still later intravenous urine injections tables and conclusions, will appear in the with bulletin on this subject. will appear in the next
The only records serites of averages, as between open and a clong
stall conditions, as stated for the Pulse slightly increased, respirationed stall, were creased, average period for blood-clotting ma-
terially increased. Changes in terially increased. Changes in the red and white
blood-cell counts were not uniform
sults sults-care given no were not uniform, and the re-
Our recult animal results show that the adaptability of the animal organism is very great, corroborating
statements of Claude Berna Statements of Claude Beryard and othersborating
animals were confined in a clowly atmosphere there was in a slowly-contaminated
though the atmospreciable effect though the there was no appreciable effect, even
normal air, and cone varied very widely from normal air, and contained large proportions of
substances which have been supposed to be ac-
tively injurious.
One steer

That may be utilized as sheep productive condition grazing to grass. The droppings of sheep dure seeding and, by keeping the of any other farm animal a large keeping the sheds and yards wall littered,
obtained. obtained. Sheep are known fertilizing material is
exterminators, eating to tellent. eties of weeds eating with a relish many weed Some one may ask which is the will not touch. there is mheep to keep. If properly profitable a choice of the breed you wish anter having made your mind a standard of excellence-make fit hid flock up to that standard. Grent caidual of the ment should be used in the selection of a rudg-
as much of the fure depend on the future character of the flock will ram is dear at any price. Muches. An inferior the breed can be brought about improvement in liberal feeding of the lambs antil they are and
vear old. No flock economize in the flock owner can afford to und on
save the necessary save the necessary feed from the lambs. Trying to sumed by lainss is cent. of gain for food un case of any other is perhaps higher than in the exclusion of all other stock, keeping sheep, to the try of Ontario can easily he doubled shithout induson the farm. in the production of other stock
(irey Co., Ont. HERBERT NICHOLSON.

## Dual-purpose Shorthorms.

 Editor "The Farmer's Advocate":I was greatly pleased with the copy
f'armer's Advocate" for December 20th Farmerly interested in the December 20th, being es the Future: What Shall She Be?", The Cow of
been breeding for a dual-purpose type have been breeding for a dual-purpose type here in Ne
England for a number of years, and some have been very successful. Most of the Short horn breeders here are still using of the Short lishing some fine milking herds of this breed Bates-blood foundation, a number of breeders used some of the best Scotch blood on the continent
coming through Gay Monarch, St. Valentine Coming through Gay Monarch, St. Valintine Spartan Royal and other noted sires, with a deterioration in size and milking characteristics as
a result. Realizing what others following the a
me course have yet failed to see, these gentle-
ma herds of the country advertised as dual-purious and, to their surprise and gratification, located a small herd of pure Bates cattle that retained all the splendid characteristics imparted by this jority of breeders to-day hold the mistaken idea that cattle of pure Bates breeding have lost
constitution and dairy qualities, something far from the truth, if one can judge anything fr the cattle brought into New England. As from
bulls, they purchased the Rose bulls, they purchased the Rose of Sharon herd,
Bonny Baron 4th, an animal of wonderful constiBonny Baron 4th, an animal of wonderful consti-
tution, with lots of the style and carriage so marked in the Kirklevington strains. Bariage so so
Baron 4th's first crop of calves, just arrived Baron 4th's first crop of calves, just arrived, are a splendid ot, inheriting, as they do, their'sire's
great vigor and dual-purpose capacity. Assisting
Bomy Baron 4th is ess, from deep-milking stock. Since these Duchare made up of cows having records of 12 to 18 pounds of butter in seven days, 30 -day records of
upwards of 66 pounds of records ranging from 300 to butter, and yearly year-olds, up to 531 pounds for mature cows, and these same animals are fine feeders, weighing
1,400 to 1,700 pounds in milking seems to be a fine prospect for perpetuating the dual-purpose type. I believe we must look to
the descendants of the old Bates and princer the descendants of the old Bates and Princess strains, and to the milking Shorthorn of England
for our dual-purpose cattle. There seems to be or our dual-purpose cattle. There seems to b
a need for the dual-purpose type in Canada.
$\begin{array}{ll}\text { Vermont, U. S. } & \text { W. ARTHUR SIMPSON }\end{array}$

## Care of Brood Sows.

The unusual mortality of pigs last spring soon knowledge of the cause and farmers to seek for care and treatment of the sows, calculated to prevent a recurrence of such a result. The loss of a
litter in these times of good prices is a serious
matter, especially in the case of the aver matter, especially in the case of the average
farmer who depends upon one or two sows for his farmer who depends upon one or two sows for his
supply of porkers. It has been noticed that sows
farrowing in aving ample exercise, and access months, after arth, seldom fail to produce strong, healthy lit ment, and which thrive from the day of their birth, while spring litters, in very many cases, come weak and flabby, unable to take nourish-
ment, and die in a few hours or days at most sults would the problem of this difference in retions of the sows in the two seasons spect to exercise and the food available. While
it is not practicable, in winter, to give them all it is not practicable, in winter, to give them all
the conditions of the summer season, it would
appear to be wise to get tions as the circumstances will permit. Supplying as mangels or succulent food of some sort, such some degree; but this may be overdone, especially Ge taken in excess. Giving a whole mangel
crnip to scoop would seem to be the wiser fully masticated and mixed with quantity and more grade more digestible. The same may be said of grain feeding. The mixing of meal in cold water
fed in a slushy condition, prevents proper masti
cation and injury to the pigs ase indigestion in the so cess of cold liquids in the stomach of the dam
To avoid this difficulty, some successful pig-rais
ers feed their scatter their sows little or no sloppy food, but
a plank or peas on the frozen ground or on good success by feeding pulped Others have had
clover leaves or ped grain or shorts being added to a little chop ing giwan in a and nutritious, water or swill ber charcoal. or hoth, kept where they may par and, I have some radical notions of my own a fifercharcoal, or hoth, kept where they may par- and, though a good many call me a Conservative,
take at will, is also believed to be conducive to you will find that we all have our troubles. I
the health of the brood sow, as it is to that of helieve there is not much difference in the breeds
 Will avoin! the possible loss of litters experienced then pay that attention to them that the the and
last year, goes without saying last avoid the possible loss of litters experienced then pay that attention to them that they re-
should 1 , githout saying, and every effort quire, in order to make them thrive well. and,
io prevent such loss. In this if we do that, there is no question but that we
ly publish the expermer's Advocate " will glad
been successful in savice of farmers who have been successful in serience of farmers who have
will favor us with a statement of theiters, if they

## The Golden-hoofs.

a series of addresses practical men dealt in turn with four of the The first speaker was urged against sheep-raising who dealt with the alleged armer, of Stouffille are not so profitable as other classeep stock." His remarks were, in part, as follows : I believe there are not many reasons why sho are not more generally kept by the farmers of
this country, and why they are thought not to be so profitable as other breeds of stock. not to be that sheep are too smat too many men think waste their time upon. When times are good, most anything else horses in preference to albreeds of horses than any have more so-called stock; but, at the same time, there are very few
genuine breeders of horses in the country genuine breeders of horses in the country. The feel that financial pinch that comes to us in every to the sheep. This is always the farmer go back ever cattle are high in price she case; whenlow in price, and whenever cattle and horses get and they become valuab begin to be appreciated, It is most difficult for
to why sheep are not profitable, because in as experience I have had, and the experience of the sheep, It is over 70 years since my ful with founded the flock we have at home, and I have in his experience when his sheep did not pay


Yearling Livcoln Wethers.
1906. Average weight, 380 lbs . Exhibited by Messrs. S. E. Dean \& Sons.
him a profit. There has never been a year in all that time that our sheep have not made a return There have been years when we could not make years when we could not make our horses more There is nothing that will lose a man so much. money in bad times as high-class horses. We horse or cow. If you will sit down to feed one figure it out, you will find that five good sheep will make more profit than the average cow that is kept on the farm, or the average horse, and
one man can take care of 100 sheep much more one man can take care of 100 sheep much mor
easily than he can of twenty cattle or horses Some people seem to think that if they spend any time attending to their own business that
time is lost. They seem to be alwor time is lost. They seem to be always wanting
to look after other people's business. it is a good plan to look after your own busi ness, even if it is sheep you are looking after on your farm. Some people have the mistaken idea
that sheep do not require attention they that sheep do not require attention; they will be are out on pasture. They do not need as much attention as other stock, but they do need some attention, and they will repay you for any you attention,
give them.
With re
keep. I do no to variety of sheep a man should
will find plenty of eustomers amongst our neigh The men in the United States that have money keep jumping from one class of stock to another They haven't the stability that we in this country
have. When cattle become dear, every man in the have. When cattle become dear, every man in the
United States must have cattle the next day, or there is going to be trouble. When horses be come high, every man is bound to have horses. When horses and cattle go down and sheep are perate effort to get sheep. It has been so this year. Although horses have been selling for a big price, cattle haven't been selling so well, and at the shows men were almost fighting to buy old
ewes, in order to take them into their breeding pens to lay the foundation of a flock of sheep. SHEEP NEVER ARE LOSERS Sheep, like anything else, pay better when when times are bad. I might. cite you a few cases to prove that sheep are a paying commore careless life in business who have lived a of Australia, and there is no class of men on the face of the earth that have had more profit for the time they have spent in the business. Great
fortunes have been made there. They have had great drouths, but nearly all the sheepmen in that country have laid up so much wealth from the breeding of sheep-and not very good sheepthat nearly every one of them has a very large have suffered in poor years. And it is the same
with the she with the sheepmen of Africa. I know one man, a maker of sheep-dip, who got an order of ' $£ 850$,dip, to be sent to South Africa. Then, sheepEngland: You will see men living well iap that country on land for which they are paying a highas rent, and they are able, with the profit from
their sheep, to pay their rent and taxes, when others were not to pay their rent and taxe, when others acted from them. The sheep-breeders have

$$
\begin{aligned}
& \text { ways been prosper- } \\
& \text { ous, and they are, } \\
& \text { perhaps, the most } \\
& \text { prosperous body of } \\
& \text { farmers that are in } \\
& \text { existence in any } \\
& \text { place in the world. } \\
& \text { There is no country } \\
& \text { in the world where } \\
& \text { they have hee hore } \\
& \text { soak land than in } \\
& \text { some parts of Scot- } \\
& \text { tand, but even on on land } \\
& \text { sheep-breeders have } \\
& \text { become well off, and } \\
& \text { they make a splen- } \\
& \text { did living under } \\
& \text { their hard circum- } \\
& \text { stances. They have } \\
& \text { sheep adapted to } \\
& \text { their own particu- }
\end{aligned}
$$ larir needs. particu$\begin{array}{ll}\text { As far } \\ \text { country } \\ \text { cerned, } & \text { as } \\ \text { is } & \text { this } \\ \text { con- }\end{array}$ cerned, I do not

think, it is neces-
sary to have any think it is neces-
sary to have any
particular
districts whereed of theep, but there are some districts where some
oreeds will do better than others. on almost every farm, because have a few sheep find their own living, and what they eat will largely be missed. They will clean up theeds eat will never
and fence corners, and and fence corners, and live largely on what other
stock would reject. I think it is lanes
por portance to be careful not to overstock more imthan it is that you keep any particular a farm
I have never known I have never known a man who is a sheep
farmer to fail in business mared.
Q.-Have you DISCUSSION.
Q.-Have you had any trouble with
in our district. I the fly is becoming extinct swamp land has caused the fly that draining the in the nostril of the sheep to become extinct eggs have not seen a case of dizzy-head in our district
or over 25 years. Q.-What about tapeworm?
A.- We never have it in our district.
Q.-Did you ever have sheep with
posed - Yes, I have had thatep with scab ?
posed to keep them. I buy a great mane not sheplikely to be scab, I quarastinet where there is had but one case, and quarantine them. I never in quarantine.

- Do you dip your, lambs

We have an ordinery we have twice a
thing goes through the vary dipping vat, and
-When time of the year do you dip them A. - When they go out in the spring, and be-
Q. - Don't you in the pen in the fall.
the same pasture year after year has something
to do with their health
ture every, year, you should not have very many because they are bound to develop very many, the sheep eat all the weed seeds on your farm you can be sure they will not grow again ; and while the sheep kill your enemies, the weeds, they land. I do not own enemies. I plow all my grass more than two years. Q.-How many sheep c
cre farm? believe if you have a gravel class of your land. thing will drain through the ground that every is no danger of water standing on the land, you can keep a lot of sheep on it-all the sheep that it will feed-and it will never become foul o poisoned. On the other hand, if you have a close I think you ought to keep very few sheep. You should not keep more than 20 or 25 sheep. Yo 100 acres of clay land; but if you have 100 acres well sheep to good advantage.
Q. - What will keep dogs away?
A.-That is something that our Legislature
ought to be bold enough and honest ought to
.-Suppose the evo what is the best way to give it to lamb, mother?
A. The best way is to give it to another A.-The best way is to make that ewe think
it is her lamb. I remember one case where a valuate ewe had two lambser and she case where a valuto a neighbor and paid a good price for a ewe,
and I covered these lambs so that she could not smell whether they were her lambs or not, and she took to them kindly. That is a matter that needs care. If it is a strong lamb it will look

## Raises Hogs on Sugar Beets.

Editor "The Farmer's Advocate

- Cost of Raising Hogs, and In your article re Cost of Raising Hogs," and I would like to give
you my method of winter feeding, which is very
simple. simple. I grow of winter feeding, which is very
feed the pigs all they and pulp them and feed the pigs all they will eat up clean, without any grain of any description-nothing but sugar
beets, except the swill from the house beets, except the swill from the house, and I can thing else except their mother's milk thasted anyneed to be ashamed of. I have also two young sows that I am breeding which never got young weeks ago ; since that time they have had all the ugar beets they can eat, and they are fit for the butcher any time. We cannot afford to feed grain to hogs; there is no profit left, or at least so friends at the experimental stations will tell us that sugar beets are 90 per cent. water ; all il can say is, try the beets for yourselves. I Id
not mean what some term sugar mangels, but not mean what


## Returns from a Lot of 12 Steers <br> Editor '. The Farmer's Lot of 12 Steers.

 I received your note asking me to let youknow how the 12 steers did that were mentioned in my letter published in your issue of Jentioned
3 rd. I bought them about 3rd. I bought them aloout August 20th, and
they went away December 28th. They gained 195 they went away December 28 th. They gained 195
pounds tach, and made me $\$ 18$ a head, allowing pounds tach, and made me $\$ 18$ a head, allowing
$\$ 1$ per month for pasturage on grass and $\$ 2$ per
month on rape. I made $\$ 7$ per month month on rape. I made $\$ 7$ per month in the
stable.
Wellington

## THE FARM.

## Economics of the Wood-lot Discussed

## A comparativery

place to a mild winter. The runners far given place to a mild winter. The runners have been heavy frost as yet: The crops were all safely A sithered, and the plowing pretty well done up A sign of the good times is the appearance o many new poultry and hog houses, the laying of
cement floors in the stables, and a general "tidy ing up " of the surroundings. To the credit of the he lays up capital said that in times of prosperity he lays up capital in the shape of substantial im
With a few
tion of tree-planting, but very seldom the direc find a place where much attention is given to any ment. In no' case do we know of any particular
attention attention being given to the care of the woodlot. On the contrary, the timber is being slowly


Champion Sirgle Pig.
Over all breeds and crosses at the Smithfield Show
1906. Exhibited by Mere, Wilts.
but surely worked off, and herein lies, we think is not to wisuom. The price of wood products products rig nearly as fast as the price of the the soil, and the annual frow the cultivation of same bush is not equal to the revenue acre of diminishes and grass. Moreover, ds the supply comes a time when price rises, there eventually ceases, and the owner is farther for these products had sold while he had a fair market. It was thus with stove wood. When consumers changed coal, they wouid not not into the habit of burning sequently the market became limited and; conprice did not rise. Another instance: The cheese-
box manufacturers. culty in securing large experiencing greater diffisides of the boxes, and have been paying as the as $\$ 14$ per M. in the bush. been paying as high
burned, factory was burner, and, in rebuilding, the proprietor, was
course, would not put in the machinerict course, would not put in the machinery for work-
ing up the logs, preferring to buy the sides ready-
made. made. This lessens competition, and it cadybe long till the others will follow suit, so that
the man who has elm for sale will have to the man who has elm for sale will have to sell
in a still more restricted market, which means in a still more restricted market, which means
less competition, and consequently lower prices.
The very best price formen The very best price for elm logs for lumber de-
livered in the yard, anywhere los IVered in the yard, anywhere less than ten miles it is $\$ 18$, but it is worth at least $\$ 5$. In lumber cut, cull and deliver, allowing the farmer next As for protection to farm crogs and lumber. is of very littlection to farm crons, the wand of no value for


Two-year-old Grade Shorthorn Steers,
Firat, second and thind at Ontario Winter Fair. Guelph, 1906.
highway, which but very few are naturally, which we should be thankful, for, besides its for
sightliness and untidiness, it would ing place for tramps, wild animals, mischiovrkboys, drunks, etc., making it fearful and uncous for women and children to go from one neighbor' house to another, especially at night. This is
no mere bugbear: the writer has no mere bugbear, the writer has seen encugh to
convince him that this is a real danger. In opinion, a better plan would be to plant hard maple, or perhaps basswood, along the line fences the roadway, keeping them warll as possible from would grow, clean and tall for lumber, and they keep the road too damp. By nailing on a strip, they would also do for posts. For this purpos are too spreading and the tree itself subject sun-crack. If there is any variety really bette than hard maple or basswood, we would be planted thickly, to admit of culling as thould by arger. They would help to hold the snow grow by breaking the and render driving more pleasant belt of evergreens should the wind. A shelter north and west sides of the farm buildings th orchard. Further than this, we think tree-plant
ing unnecessary ing unnecessary and wasteful on our high-priced
tillable land At the risk of being verbose, we would add reveals more clearly than before the extent of dis resent the limiting of their law. The ratepayer and the removal of it to the Provincial on ar the fixing of teachers' salarieg on a par with the oil trust or the salary grab.
South Perth, Ont.
J. H. BURNS. [Note.-Another disadvantage of maintaining a
wood-lot wood-lot would be the danger of trees falling on
people passing through it :-Editor.]

## The Stone Basement for Dairy Cows.

Editor "The Farmer's Advocate":
Your editorial in the Nov 29 th basement stable, has brought out considerabe comment, and, at the risk of seeming tenacious favor ways, I would like to say a few words in dairy cows stone-basement stable, especially for A few y
ting so badly ago I found my old atables getthe dairy business (they did not so unsuited t that I decided to build new stables, and Iation I could, and found of inspecting all the good barns basement stables were dark and that most of the cided, however, to try to overcome these I de tions, and in 1904 erected a frame barn ob satisfaction that I I feel like recomus such good the readers of ", The fike recommending it to selected a site with a southern slope, and built
with the end of the feet of the north end of the the hill.. Sixteen a root cellar, and the remainder of the used for has about all the windows in it that basement glass. This pives thirty inches being about half the east, south and west sides all day long, for windows, and I am satisfied that we plenty of large ventilators, for ventilation, we have plenty the basement to two large square, leading from These ventilators are also used as on the roof. and straw. They are built of matched lumber put into doors through which hay and straw shut. ing on the inside of the roof with frost gathermany basement stables, because the warm in so the cupola, and does not get into the upper pugh Fide barn. Frost does not gather on the in
side the stable walls, for the wall was built
as every stable wall should be will stones running clear through the with very few siderable small stones and mortar in the the conslides to shut the ventilat we have trapdoors of them may be shut as the so that one or all temperature some writers advocate, and they stables which vantage of cheapness, and may they have the which
stend steers or beef cattle, but for dairy cows, especial
ly where Iy where roots are fed, If would nows, especial-
without the basement stable. without the basement stable. C. H. BLACK
Cumberland Co..N.

Best in America.
number of yeen taking your priceless and am learning to for a hest agricultural paper published opinion it is the ful production, and does credit to your beauti Middlesex Co., Ont W. C. HULL.

## A Question of Ventilation.

> I have been an interesting reader of your edi
orials and of the contributions on stable wall and moisture and ventilation which have appeared in late numbers of "The Farmer's Advocate." I just finished building a barn having a basement of the bulk of the letters so far, but especially of aur editorials, is such as would startle, if not he coming summer with a stone, brick a barn crete foundation the full height of stable. I might say I see no reason yet for regretting
> building the popular concrete walis for the stable
and foundation of barn, nor do I regret building the stable under the barn instead of putting up a
separate building for a stable annexed to main
barn. The convenience ible styles of stables is not to be compared the two basement can surely be lighted to better ad-
vantage having four sides exposed to the

## . <br> A Barn-inspection Tour re Ventilation, etc.

In view of the ,lively discussion in "Th
Farmer's Advocate ", on the basement-stabl
question, two of the editors recently took



 visted, if will be plain that litle time was
spent discussing weather or crops.

 lending part of the length, beyond that a row of
loose boxes for sters.
The sialle is exceutionat Iy well lighted, having 21 swinging wincouws, each
of six $10 \times 12$,
 it worked satisifactorily. For intake, an ordinary
wooden box runs over the Wooden box runs over the fred alley from one end
of the stable to the other, opening gat each end
of the oann the of the parn. The box is to be tight neare eand
end, but throughout the rest of its lengh will
whe enat but throughout the rest of its length will
have eracksk through winh the resen hir will enter
the statue



 stable, in which is an antomatic foatertean ontroling
the mill.
From the tank the whe


 cement has herdore of the stable Since the
from teand then ther has been no troule




0







 Mr. Beattie is planning to put a concrete wall
under a straw shed which he is going to raise preferring concrete on the score of durability and
strength. One drawback of was tound to be drawback of a wooden basemen
posts it unless well supported by posts, it yielded under extra weight-for instance,
under the granary-causing some of the boarding to bulge and loosen. Mr. Beattie, by the way has a nice-looking herd of dual-purpose grade clean, standing in rigid stanchious on a platform $p$ behind.
$\qquad$ concrete basement, is not altogether enst built a
it. He believes basement barns are expensive of make much of having water always before he
stock. He believer stock. He believes if they can be turned out
once or twice a day to drink in a comfortable
place, it is all the better inge, it is all the better for their health, insur-
ing them excise. His present advice to any one working over an old barn as he did, would
be to use it as a feed barn, and build a wooden
stable at right angles to it, stable at right angles to it. By placing the silo
judiciously, he thinks one could thus make a
cheaper, more sanitary and not inconvenient
stable

An attractive and substantial, though some-
what expensive barn is that of Adam Govenlock What expensive barn is that of Adam Govenlock.
It is $44 \times 84$ feet in dimensions, and is in use galvanized roofing, which is tight and and satisfac-
tory in all respects, except that moisture from the stable condenses that moisture rising
Ventilators are yet to be erected on the roadily, Ventilators are yet to he erected on the roon-
ridgee and will carry off the moist warm air which
rises from the stable. The mangers are rises from the stable. The mangers are of the
same general style described in the preceding
harn The cow-stable floor is well-nigh a model harn The cow-stable floor is well-nigh a model.
The manger is an inch higher than the platform
on which the cows stand; the platform slopel inches to a 6 -inch drop, and the gutter slopes $1 \frac{1}{2}$
gently up to a walk
way is lower than the platform on which the cat
tle stand, showing them of larger and to better advantage than where they and to much than the visitor. As yet Mr. Govenlock has no system of ventilation, although one patterned on approach, but extending beyond it, is Under the arch roothouse $13 \times 38 \times 10$ feet, holding about
eighty 40 -bushel loads eighty 40-bushel loads of turnips. It is proiron siding. It keeps the roots well, but mizedhave taken a pile of cement to build. One of the driest basements seen in ye editorial
tour was in a barn belonging to David Car-
rothers. It was brick, something like concrete of large hollow brick, has three hollows, side by by side, and the full
length of the brick. A vertical crossesection of
the wall would show near space as solid brick. These brick as much air East Middlesex, and many barns in that made in borhood are built of them. They make neighwall, but unless carefully laid are not as a drong as concrete. All that we saw were laid up from his wall plastered with cement mortar inside, has likes it very well. He says that frost congeals tion, but never dor and on the concrete foundathe wall. Others gave the same testimony
satisfaction plastered brick wall giving entir satisfaction was seen in the $86 \times 50$ givot basement
of Benj. Holtby, who has a grand herd able dairy cows. Who has a grand herd of profit-
are are two rows of stalls, on each side of the main passage. Next to the wall on one side is a root-house, also feed-mixin room, etc. The manure passageway is of solid is of cobblestone, laid in courses. the cows stand finds this floor keeps the'cows from slipping water tank from the barn is a round cemen water tank, on a raised mound, supplied by inch pipe. It is 12 feet across the barn by a $1 \frac{1}{2}$ The cistern wall was built up and 21 feet deep, the bottom aiterwards filled in so as to raise It is banked up about three fall to the stable though covered only by loose feet outside, and
assured it gives no trouble from fre were
. from freezing.
After a hurried call at the MacVicar place, reached the mammoth new barin elsewhere, we Like many others, this consists partly Yorke. barns rearranged, and it so happens that old under its several portions. The wall and brick old barn was stone. Under the nall under the Was used, except along the the new part brick was expected earth would be piled against the
wall, and concrete was accordingly phef $44 \times 136$ feet, with The main part of this barn as from the north side $44 \times 48$-foot ell rumning is side are two approaches. 72 feet. The wall on covered by a lean-to as the follows around the on the south side of the barn Under the leak of 72 feet in the main wall off from the stable, not by a waill, ouse, divided wooden partition. Thus, the wall, but by a
occasioned by the rontra walls ends. This makes a fare are the two 12 -foot than a concrete arch, and douhtless root-storage
as satisfactory. ${ }^{\text {Overhead }}$ be quite tending under the main roof. In this basement
are 62 stanchions, 11 horse stalls and 6 box
stalls. The total area of floor space in the stable stalls. The total ar

The combination cattle and horse barn on the farm occupied by J. W. Johnson is an exceedingly
well-finished structure, particularly the stable, and well-finished structure, particularly the stable, and
illustrates the superiority of the ell shape ove iHustrates the superiority of the ell shape over
the oblong barn in providing a convenient driving
-shed in which to unhitch and to store light rigs. Shed in which to unhitch and to store light rigs
It was an old barn, $30 \times 75$, with a new wing $40 \times 50$, forming the lower part of the ell, and all placed upon a wall of large brick, plastered
inside, and resting on a concrete base. The
stable was splendidly stable was splendidly lighted with 17 windows of
aine large lights each, the upper three being in one
sash hinged at bottom so as to be opened back sash hinged at bottom so as to be opened back
from top in warm weather. Two large feed chutes constituted the ventilating outfit.

## Cenesis of Our Basement Barns.

Editor "The Farmer's Advocate
I am pleased to see a number of farmers are responding to your question, "Is the Basement Barn would answer, in the first place, certainly in so far as labor-saving and general comfort to both man and beast is concerned, and likewise to the present-day requirements of improved farming. and it certainly would be a profitable thing for farmers generally if a plan of barn with basement stable could be fixed upon having all the present conveniences and none of the objections in regard to dampness and ventilation.
be kind Mr. Edat, ignoring egotism, will you of kind enough to allow space for the experience of an octogenarian whose whole life has been
spent on a farm in this Province (Ontario)? The basement barn, or bank barn, is an offispring the old Dutch barn, common sixty years ago the Counties of York and Waterloo. The original plan no doubt came from Holland with the Men New York State. Its prototype is to be seen day in the northern Provinces of Holland. In the Townships of Markham and Vaughn they
were called bank barns, as the back was built up
to a bank thus to a bank, thus lowering the approach of the driveway. The horse stable was at one end,
and the cattle at the other end. In the matter of arranging the conveniences of the basement
there was no fixed rule, but, if possible, there wa a decided preference to have front to the south and the barn proper to extend six or eight feet beyond the basement, forming a shelter when le
ting in cows or horses; and as there were no spouts in early days, the eave drops were this carried away from the doors.
stone, stone being far described was alway County of York than in Middlesex. The base ment was lower than made at present-about 7
ieet in the clear. They were very imperfectly ieet in the clear. They were very imperfectly class stable, ventilation having no part in the architecture of the structure.
hewed logs was built on the level, a and the barn ection to this was the long and rather steep obproach. These barns were all too small; very gro of them would hold hay and all the grain Barns have changed fashion vare farm
ast twenty years, and, although retaining in the affinity to the style of the old Dutch bank barn, the evoution has been to eliminate many of the
oldeas concerning the desideratum of the whole structure
Necessity is a factor that has wrought many eforms in as well as in harns and dwellinge I was number of the old barns are still extant here and there through the country, having much need of
renovation, or being pulled down, and what timber is sound and a vailable utilized in a new one. One
of the difficulties 1 encountered in attempting of the difficulties 1 encountered in attempting to
adapt my old barn to possess the convenience
now reauined in now required in a dairy barn, was its size.
was only $53 \times 34,16-\mathrm{ft}$. posts, set on cedar pos It was not much over half the size required
have cattle and horses all stabied ther all provender necessary stowed away for and keep during winter. An old shed was meta-
morphosed into a cow byre and horse stable a
loft above held a few tons of hay. Excepting hay and some oat straw, all the fodder went out
on the stack. It had to be cut from ting and carried into the stables for bedding stack and carried into the stables for bedding or fod-
der, and on a stormy day it was blown to and
fro. It was next to impossible to get a stack built that was not wet in some places from top
to bottom, and frozen as hard as make it; cut with an axe and pried off with a inconveniences I suffere
time came at last th
and bucket go toget

Visiting a number of barns-stone, concrete and
brick (I mean the large hollow brick)-I learned
that scarcely two owners had the same opinion perhaps owing largely to expense in purchasin and teaming material. Then, in regard to shape size and inside arrangements, I found advice was much like the story of the old man and his ass old man, my new barn would doubtless have ended as he and his ass did. I, however, formulated plan of my own, taking such suggestions as long and 44 feet wide, 18 ft . posts.
I learned, in my peregrinations around, that no basement was wholly free from hoarfrost forming on the walls and doors, especially on the ".Does the is a frost question in natural philosophy walls from outside to io inside, or is it that the stone and concrete, being a somewhat better conductor of cold than brick or wood, congeals the the animals emitting moisture in breathing ? The dead-air space is certainly a preathing some extent; the cold from outside stops at the not become so cold. One fault of the hrick wall was that, if the mortar between the ends of the in the case of it shrinking anited with the brick, opening right through. To obviate this, brick walls in my neighborhood have been plastered inside with a cement palster, wholly preventing wind coming through; but the plaster being just abut as cold as the concrete, congeals the mo
ture. and hoarfrost is formed on the walls In my barn there are six ventilators
side, running up the side behind the cattle, with exit at the eaves. There are sixtcen windows on each side, two in each end, and two in the gables
near the peak-in all thirty-eight-with $18 \times 12$ glass, four panes in each window. The halves open upwards and downwards. Three chutes for puting down foddcr, and the hatchway upstairs,
give all the ventiation required. The practical part of ventilation does not always coincide with
the thenretical. the thenretical. To strike a medium between the
entrance of cold air and the exit of impure air entrance of cold air and the exit of impure ait
from breathing or any other cause and keep the temperature normal, is easily accomplished in
The frame basement may be drier, and to some er, and. in east frigin and south-east Middlesm My story has become too long, and perhats. containe nothing but what farmers know. To
those who have built new barns. o!d ones, it avails nothing ; to those who hated well the build orpense. renovate. A hain in would say can consider the same size and material, may cost more than price of material making the diffrence.
Middlesex Co., Ont.

Experience with Water Tanks.
and had it placed in a building. it up we painted it both outside and inside Butting experience, we found out that this was a mistake
We believe a tank is much better and to be painted on the outside only when painted both outside and inside, It seems timber rots more and faster on account of the moisture being retained in the plank and kept in that there are many who have done just as I did. and painted both sides, but it is a mistake. asked a tankmaker of great experience what his he said, "I would put all the paint I hank, and spare on the outside." When I put the tank
outside, I set it on a frame stand and boarded it
in below, but the frame did not last many ye and last summer we got a new tank, which we lieve that built with cement mortar, and we bea small door in the south side. We tied several then put up a hox about 12 inches square around the pipe, making it as close as possible. We then frame, and filled all the empty space with cut straw and sawdust, and put on a tight door on
the outside of the frame. which was rablucted or cedar timks should be well made of sound pine hr cedar timber, free from sapwood, large or loosi proper hevel. It seems to me that there is the
a science in making a water tank properly. We.
put a tight cover on the tern weather we generally ene tank. and in viry colly
water in the evening, if there is water in the evening, if there is any wind. and it enough to lear up its own weight when the want
has been withdrawn. We have the roon water
from one side of the barn from one side of the barn ru

Does it Pay to Board the Hired Man? Editor " TThe Farmer's Advocato
In spite of the fact that the pursuit of agriculture is the most natural, and, therefore, nearest the ideal we must recognize that there are some thinge in the and which we should strive constan ar desirable thereby making the business more attractive and nobling. The countryman is no longer the butt fidicule, nor "farmer" the synonym for awkerdnes and gullibility. Other professions are beginning envy us our independence and general prosperity us make ourselves all the more the objects of envy by cutting out, wherever possible, anything in our hives and surroundings which has a tendency to lower The farmer who would do most to uplift his ofcrin pation must be a gentleman, in the true sense of the sucm ; not a polished fop-all manners and no brain uch as our cities often produce-but an intelligent nized anywhere as a man of equal ability and eo recog, with men of all other professions-not excluding ban erks. His house should show evidence of refinement his culture, so far as his means will allow, and, with
his in view, he should study to expel everythin which has a tendency to render his home lifo less re fined and increase the discomforts of his housekeeper The practice of boarding hired men is, perhaps, the In the first place it makes a drudge farmer's home. wife. Many a country girl has been led to farmer's ployment in the city, and finally to marry in the city, simply from the dread that if she remains in the country and marries a farmer, her life will be an un-
ending succession of meals, prepared for those she ending succession of meals, prepared for those she
does not love. No matter how neat and respectable and intelligent the man may be, his presence at the table at all times deprives the family circle of its privacy, and lessens the charm of family happiness. If he lacks intelligence and respectability, and comes to
the table in an untidy or filthy condition, his presence is simply unbearable.
I am perfectil
I am perfectly aware that in some cases the board-
ing of hired help is unavoidable, but on many farms ing of hired help is unavoidable, but on many farms
this difficulty may easily be overcome. "But," somethis diffculty may easily be overcome. "But," some-
one will say, "I can hire more cheaply whem I board my men; I cannot afford to pay the extra price which they demand when boarding themselves." Let us see how much can be made by boarding a man for one week, at the present prices of provisions, for even those
things which are produced on the farm and turned into money if not consumed. may be sold
This selfevident fact is often lost sight of. Because wo do not have to pay out money for pork, eggs, milk, butter,
etc., we are apt to overlook the fact that their real value is what they will sell for.
These figures which I am These figures which I am about to give were fur-
nished me by a thrifty and practical housekeeper, and
represent the average consumption for one week of
family of for amily of four men and three women:
women. which, I think. is rather underestimating the isions for one man for one week. $\$ 8.24$ divided by 6 .
r $\$ 1.37$ In this locality ordinary diy laborers
harge $\$ 1$ In boarding themselves. Men working, or $\$ 1.25$ when 81.75 per the same allowance. This amounts to als figured for a full week., Now follow above list


$\qquad$
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$\qquad$
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THE FARMER'S ADVOCATE

## Hired Man

 | neareat the idea |
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| 0 things in | Iy tot ousimatire gor the wut of

for numkardness
or bexinnies $\underset{\substack{\text { begini } \\ \text { prosperit }}}{ }$ prospority; let
object of env,


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$t$ an intillifgea
would be real



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pernaps,
it



## Cement Silo with Continuous Doors.

 ing another hardy one silo, and contemplate buildis built of thumber, with summer. Tix-foot she one $I$ haveitone founda-
tion four and onehalf tion four and one-half feet in ground, as my barn
is built on side of hill. The lumber part is com posed of two plifes of inch pinee with tar paper
between, held in by hoops of hall-inch elm four inches thitck, the whole having an outride elm cour of inch pine lumber. We are able in this to have
a continuous door from top to bottom, making it very convenient in getting out ensilige. on ac-
count of its durability, I would like to use cement in the construction of sillo 1 p purpose building, but
it has what would appear to me disadvantage-that of having the doors five feet apart. Woe have severall cement siliso five our
neighborhoo all built in this way in fact, the
neigher builder would not guarantee them with doors, any
closer. I would like to know if any of your read ers have overcome this difflculty by the introduc tion of iron rods in the wall, or in any other way.
Another objection to cement silos that Another objection to cement silos that I have
noticed in some cases-not all-is that the cement
absorbed the absorbed the moisture from the that the cement
twelve inches of the silage, thus causing tem or
it to mould. Would this he caused by mixing the cement too dry, so that the wall would be to a con-
siderable extent porous? Any enlightenment on
these two obiections these two obiections, through your columns, by readers who have overcome them, would be grate-
fully received by myself and several others who fully received by mysilf and several others wh
are thinking of building cement silos.
oxford Co., Ont.

## GARDEN 被 ORCHARD

## Horticultural Progress.

(Prepared for '. The Farmer's Advocate
Fulturist, Central Experimental The San Jose or Chinese Scale: Bureau
Entomology, Bulletin No. A2, by C. complete treatise on the San. Jose scale which should be in the possession can be procured The writer first gives the present status of the nsect, and then describes the investigations
undertaken by himself in Japan and China to discover its home, which was found to be the From China it is believed to have been intro duced to California in the early seventies, and ties, it had reached the Atlantic. Antil, in the nine the distribution and present condition of the
scale is given by States in this bulletin, which makes it easy to tell where the geatest infestaterest to Canadians is, "The relation of Climate to Spread," where it is shown that the insect and description of the scale are given at length so that after one has read are about these, the in-
sect should be easily indentified. In discussing sect should be easily indentified. In discussing
the means of distribution, the writer states that While there is a possibility of distributing the
San Jose scale by means of fruit, ". It would
nractically be necessary for the parings to he tied to a tree, or the fruit to be placed in the
crotches of the tree, to secure infestation. and it
is the belief of the writer that infostation from from this source can be practically ignored."
A number of parasites of the San "Jose scale nor as sure in reducing the scale as lime and
culphur. The Asiatic ladybird, which was imMreded from China especially for the purpose of
ineding on the larve of the scale, does not multiInse scale is subiect to spveral diseases, and Mr. udv. The author discusses the various in-
uticides used to destrov the scale. including ticides used to destrov the scale, including
nond sulphur. whale-oil soap, kerosene. crudt
roleum. oil-water, petroleum-somp emulsions
decided preference is given to the lime-sulphur
xture, made in the proportion of, unslaked lime
cent to oover all these minor
housewife for her extra labor
In many instances the boarding of men necessitate he keeping of a girl in the kitchen-another item of
expense. How many a housekeeper would say to he husband," "I will gladly get along without the help of
a maid, if you will see that I am not asked to bond he men."
Every farmer who is not fortunate enough to be independent of hired help should have a cottage, or cot-
tages, for his men. Employ a married man by tages, for his men. Employ a married man by the
year, give him a neat, comfortable house to live in
the use of a good garden spot, with mill the use of a good gardon spot, with milk enough for
his family, and the occasional use of a horse, and you his family, and the occasional use of a horse, and you
have gone far toward solving the farm-labor problem

 quantity of ho to seured in ind slaked in as amal
one thirrd the full diutut the the cooking vesea, savy one-third the full dilution. The sulphur, previous once to the slaking lime. The whole added at should be boiled for at least one hour, after which the fulii quantity of cold water can be are dormant. Whash is only applied when the trees after the falling of the leaf, and before the buds swell in spring. In badly-infested orchards two applications should be given, one in late fall, and
the other in spring. Where but one application is given, the spring is the best time, just before the buds open.
Transactions of the State Horticultural So-
ciety, Kansas, Vol. XXVVII., published at To-peka.-This volume contains the proceedings of Horticultural Society of Kansas, and in the four undred and one pages is to be found much useful are those relating to "Ideals" in general value Wife for there are the following: "The Ideal Wife for a Practical Horticulturist "; "The Ideal Horticulturist""; "The Ideal Home for How to Grow It ,

The Ideal Plum, an to Grow It","; "The Ideal Strawberry, and How
to Grow It ", "The Ideal Raspberry, and How
to Grow It,", "Then to Grow It ", '" The Ideal Blackberry, and How tired Life",: "The Ideal Front Yard of a Country Home "'; "An Ideal Apple Orchard, and
How to Grow It." The paper on "" The Ideal Wife for a Practical very good, and deserves wide circulation.
trees in wrould rather plant potatoes in grass than apple would find at the end of the farst year that the plan of Agriculture for New Brunswick. Deputy-Commissioner
POULTRY.

## Breed Tells.

A friend of mine remarked one day that he "could make hens lay, no difference how they is different from me in that the tale." Well, he right, what is the reason that in the same flock we will find one hen laying three and four times as many eggs in a year as another, with the same My experience
like. A heavy producer's offspring like produces may not all make lig records, will show a large percentage of heavy produrers, and thev will avermerelv from their appearance: During the chosen of 1905 I saved the pullets from mv best Barred There were ten pullets, and 229 eggs in one year. trap-nested. They began laying from carefull, on to Feb. 18th (there were two July pullets) Up to Sept. 11th. 1906, they had laid 1,500 eggs to remove three of the number to another I had make room for young pullets. There was not really poor layer in this lot. The lowest number was from one stunted when young. She made
118 to time when removed, and continued lade in the other pen, but not trap-nested. The best one has beaten her mother hy 8 egges, and has the not correct in the belief that she hear. Am I pionshin record of all Canadian holds the chamhreed? At Maine Agr. College. Prof. Gowell had one four or five equal another 240 , but not more than hur or five equal to this Canadian hen, and he hen is in pink of condition. and fully moulted. Her work was as follows: December, from 25th, 2405. 5 eags: January. 1966, 30: February, 17: Julv. 1 N: August. 17: September. 15 the 24 th 1.5 . Her eags were worth. at Hamilton
nrices. when nroduced, $\$ 5.17$, but some prices, when nroduced, $\$ 5.17$, but some were sold
and some used for incubation purposes, adding and some used for incubation purposes, adding to
the value of her vear's produce. It is readilv seen from the numbers laid each
month that she not onlv cave a very larce vield. hut at a time of the year when worth the most throuchout the year in a a curtain-fronted house. dav of the vear.
diat
Went
J. R. HENRY. Success to " The Farmer's Advocate and Home
Hagazine "-the best paper for the farmer, for old and young. Compliments of the suitable many happy returns, Very truly yours, season,

## Hetchith Duck LEsse in lhoubetor.

In looking over "The Farmer's Advocate "t of Dec. 20th, I saw a rather amusing sletch in the Poultry Department, signed "S Wrinklesr"' Thave been brceding chickens for some years, hut have
never been able to hatch my chickens in less than never been able to hatch my chickens in less than
20 or 21 days, having used both hens and ince-
bators for hatching. And another thing, I don't bators for hatching. And another thing, I don't of when she trusted the hen with the whole off in March, but they have not done so well as some that were hatched the midelle of April. Thoee
that were hatched the middle of April commenced layt were hatched the middle of April commenced laying well now. I have the Barred Rocks, but my favorite breed is the Wyandottes. I also have Bronze turkeys, but never tried to hatolt the hegs, in an incubator, but duck eggs outhatoh bator. I put in 69 duck eggs, tested out In, and out of the 58 that were fertile I hatched 55 otrong ducklings, I also tried some geese eggs with the
duck eggs, and was very successful with them. Last spring geese eggs were not. very tertite in
this locality. The brooders I use are the same this locality, The brooders I use are the same at their stations, and I heve fine succoss, with anything. I make the woodwork to thom, and and put it together, and the entire brooder costs to put the chicks in only $\$ 3,00$ oomple will accommodate between 60 and $75 . \quad$ E. H. MORGAN.
Missiquoi, $\mathbf{P}$.

Mash and Green Food for Turleys.

## Editor "The Farmer's Advocate":

My turkeys did so well last spring that I bellove it was owing in a great measure to a direrent moltiod mash I made for my hens, which consisted of met clover chafi and meal sealded, whith a small, of nuantity of galt in It, so I gave them a feed of thite overy
morning, and barley or oats in thev.eyenting a turnip Shopped in two frequently, and wery, gltening potato tuph winter so well; they began to lay carly, litd theng the number of eggs than usual, and the oggi hatchiod woll,
from which I inferred that they got the ight ifida of from which I inferred that they got the rlght latid of
food. I have often notice them th have a free range, plelling the green clover leaves. Thidy are very fond, too, of the sour dock, Xoir will tenider leaves from the her young brood ploling the mer I gave my young turkeys a maib of oat and bario meal with sour dock cut up and mixed through the meal, then wet with cold
well, and they grow fast
I belleve this is proper food for turkewa in aca land, so no doubt it is good in Canada. It Ta eood whenever they look the in their food occastonally

WRIMEHES:

## APIARY.

## Beekeeping for Farm Boys and Clib. <br> Editor " The Farmer's Advocate

Once more the Christmas bells have rung, and agath happy people of Canada. given to the contented and or municipal elections, conventions, time of year meetings of the different sociatios of the land, and it well that the people, farmers included, should take tock of how they are prospering in their calling. The those of the West, in that they can carry on so oyer difrerent branches of farming. Now, Mri. Do mitior, I propose another line of husbendry which I world recommend, espectally to thie young men and women, and that is beekeeping. I soe no reason, Wy the few hives of bees. I do not know of ain greator very few people farm than plenty of honey. Thore are very few people who do not like a dish of honey, but I beep leve a great many people think it is impositblo to keep bees without getting stung. I have kept a fow
hives for the last 25 years, and there is no more danger in opening out a hive of bees than in leading a young first place, there is no insect that the them. In the arst place, there is no insect that the temperature of
the weather affects so much, and then it is easy to protect yourself much, and then it, is so very
is nothing. is nothing. My outat consists of a veil fastened to an old hat, covering neck and fice, then a palr of harvest gloves and a smoker alled with rotten mood the most of the work with bees is done in warm weather in summer. I do not recommend any one to rush in heavily until they become acquaintid with young farmers to trying a hive in the spring and our will ind both ploasure and proalt in beos. and they Perth Co., Ont.

FARMER.

## Order Supplies Early.

January is perhaps the quietest month of the year on the fram. The preparations for winter are all completed, and the preparations for spring
are not yet commenced.
For this reason it is are not yet commenced. For this reason it is
an ideal month for doing any work that can be an ideal month for doing any work that can b
done ahead of time. It is a habit with to many beekkeepers to put of preparations for tho
summer's work with the bees until the summer is summer's work with the bees until the summeri is
Almost upon them and the bees are nearly ready to starm. Then and the bees are nearly ready
to swild guess is made at the to swarm. Then a wild guess is made at the
lind and order is sent to the supply manufacturer, who seceson, is soonch of sut buch orders every day at that
that, he met in spite of the fact that he may have had a a good stock on hand early
in the season, and the beekeeper has to stand in the season, and the beokecer has har stand
the inconvenience and loss of having to wait until the inconvenience and loss of having to wait untic
the supply dealer can catch up again. How much better and more convenient and and ppoiftable it
would be for all concerned if the beekeeper would
. send in his order for supplies early in the winter, thereby giving the manufacturers time to make
the goods and ship them, and the customer time to put them together properly, and have them all ready when needed. It is just as easy to figure
up whit supplies -up what supplies will be needed for the coming coason and aust up how many months hence. Go
hive of bees you
have. Then count how many empty hives, hive have. Then count how many empty hives, hive
and supper bodies, combs, bottom-boards, Extract Ing and brood combs, empty frames, queen ex-
seluders, etce, there are, how much foundation You
have on hand, end anything you may need. Then have on hand, and enything you may need. Then
go into the house, get a pencil and paper, sit
down by the fire and figur down by the fire and figure up how many of all
these things will be needed, providing all your
beea winter safely, all swarm in Tung ain your beess winter sately, all swarm in June, and each
ome reauire two supers to hold the honey stored.
The diference between what your figures show The difference between what your figures show
will be needed, and what you have on hand will be what you must ond what you have on hand will be
any emergency in the houney weuld be ready for
thy ens. And don't any emergency in the honey season. And don't
be stingy and skimp your order, or you may be
sorty if you find yoursul sorry if you find yourself next June in the middle have not storage room for the boes to put it in.
And when And when you have figured out what you need
go ripht to work and order it. Don't wait until
the first of April busy Get the good a at your house in February and put them all together well and carefully at your leisure while you are waiting for spring to
arrive. Then, when the rush of the season is on, and you want when the rush of the season is on,
or
 to go to your " stock ", and pick it up, Now,
don't. blame " The Farmer's Advocate, if you have to hive a swe Farmer's Advocate "if you in in inverted hen's nest
next summer.

## THE DAIRY

Proyincial Butter-scoring Contest for Cream Gathered " Creameries contest, which was carriod oin under the direction of
the Eastern and Che Eastern and Western Dairymen's Associations an
the Department of Agriculture Thirty-five of thoso who entered the competition $t$ times. Wo give herewith relative each seored thre firteen.


## Our Best Friend

Quite a number of ". Farmer's Advocates speak too highl
the complimen progress. $\qquad$
 Branch last week.

## Txperiments with Dairy Cattle at Ottawa. <br> Some lines of work conducted with dairy Experimental Farm, Ottawa, have been as fol

 lows: BreedingEconomy of production of milk
of different feeds, both rough and
f. Infuence of feeds on quality and quantity
5. Individual records.
6. Influence of hours of milking on quantity 7. Cost of feeding.

In Prof, Grisdale's last annual report, his re1. Work in breeding for milk production here seems to show that, (a) superior dairy cows may e found in all breeds; (b) pure-bred females are pure-bred bull should all in dairy he farming, but a 2. Cheap milk production is assured by the use of succulent or juicy feeds, such as mangels, and meets and ensilage; and nitrogenous or flesh hnd milk forming feeds, such as clover and alfalfa in well-lighted, well-ventilated, comfortably-bedded
B.
3. Sugar beets probably rank first as a succuLent feed, mangels and ensilage, however, being
very excellent.
Bran, oil meal oround oats shorts and gluten are the best concentrates. 4. Feeds do not affiect the quality of the milk
produced so far as per cent. of fat is concerned produced so far as per cent. of fat is concerned,
but may affect the flavor. of the milk or the character of the the fifter. They of thill malso affect the total quantity of fat produced in a given time, as
well as the quantity of milk produced in given time quantity of milk produced in the same 5. Individual records have been found to be Very valuable as a guide in breeding and feeding. cow serves not only to show what a cow is at the end of the year, but is sure to make each cow
do better on the help taking an intereat in her the milker cannot
his best hy her and so do his best Why her as to feed and care.
unequal intervals, does not seem to affect the quantities of mill or butter-fat yielded by a cow but does affect the charactor of the milk after
each milking. the smaller ountity each milking, the smaller quantity and the
higher percentage of fat being obtained after the shorter interval. Regularity in hours of milking is essential.
7 Cost
Cost
as 7 . Cost of feeding should be carefully studied, as our experience shows savings or improvement
frequently possible, individuals being often fed frequently possibe individuals being often fed
too heavy or too light a ration for the milk that is produced or that might be produced at a given
time

## Remedy for Difficulty in Churning

Having noticed in the December 27th issue your valuable paper inquiries about cream foam
ing in the churn and not making buter ing in the churn and not making butter, and, no
considering the answer quite satisfactory leave to give my experience through the columns of your valuable paper. I have had the same liroube, and tiied everything in the way of clean-
liness, proper ripening of the cream and tempera-
ture to ture, to no avail. I know not the cause. hut the
remedy is to heat the milk inmediately after it is mikked and strained to a temperature of 130
depreses.
Then set away to cool and for cream to rise in the usual way. Sour the cream, and
churn at a temperature of 62 degrees. The re.
sult will be deliciocous, sweet butter. and as much Alwavs use
on it as if it had not been heated $\begin{aligned} & \text { dair thermometer. } \\ & \text { Wellington Com }\end{aligned}$ SUBSCRIBER. INote - By a typographical error, the answer
referred on ontained an inaccuracy, It stated
thated



The owner of cows must study their hatits,
likes and dislikes.
and me must feed them liberally,

## 

## 

## THE FARM BULLETIN. "Vox Populi" and the Teachers.

 Editor The Farmer's AdvocateIn a recent issue of "' The Farmer's Advocate read an article entitled, "Sandy Fraser and the. Scho ma'am," in which the doughty Scot speaks strongly
favor of fixed salaries for teachers, and against the attitude taken by "intelligent and broad-minded culturists "toward this law. One of the leading raits of the Scotch character is shrewdness in business; another is the love of learning. Now I greatl Mr. Fraser as to entirely overshadow the former. In the first place, we are informed that some our farmers, and they are the intelligent and broad minded farmers who are referred to, are going "to
make a big kick against the whole scheme, which they consider wholesale robbery." Unfortunately, Sandy has misunderstood what the robbery refers to. He believes it is the few paltry dollars of extra taxes tha take. causing the trouble. Here he makes his first mis spending of four or five dollars annually, to be spent in the interests of education, we would richly deserve the contempt of every human being who has the right ocall himself a man. But we do not. What we do which robs us of our right as Canadian citizens to hat we can towand placing our country among the world's greatest nations, and insinuates that ours are incompetent hands to which the education of the rising the
eceiving good wages, not exorbitant as a rule, bee most districts the teachers are not reduced to the state of want and starvation that prevails in Mr. Fraser's
district. Other people, just as district. Other people, just as worthy as schoolma'ams, have died from overwork and privation with round sum. That worthy gentleman also bids nice call the long and toilsome years spent by a teacher in acquiring her right to display the beauties of educadazzled eyes of thirty or an advocate of good education should consider that in an advocate of good education should consider that in
these enlightened days the possessor of a first- or sec-ond-class certificate has anything above an ordinary all that one has to do to be allowed to is obtained attend a normal school or college for a few months; then the money invested begins to bear interest. How greatly does this differ from the laborious years of
study that through. Then instead of a fixed salary, with go chance of saving something every year, such as any teacher has, who is not a spendthrift, the young professional man does well if he manage to earn anything above his expenses during the first years of his pracditure. Any teacher who is foolish enough to be troubled with pupils four or five years of age, when the law expressly states that children under six shall not annoy her with foolish questions, does not deservers to cient salary to pay her board bill. I would advise such a teacher to try a change of occupation.
In no district in Ontario, that 1 am aware the taxpayers attempting to keep down the salari, are of the country the wages have beection in this part during the last six or seven years. That it costa more to live now than it did ten years ago we all teacher's board-bill been raised by the "" old sking the with whom they live. They by the "old skinfints ing to cause the teachers any extra expenditure.
What next do we hear ? "In school teachers, as in anything else, you will get just what you pay for."
No, you will not. You did get just what you paid
before this law fixing the hefore this law fixing the salaries was passed. In those days, when supply and demand wore regulating the salaries, a teacher had to be competent or do
without a job. Now you get just whatever out to you. If your school pays five hundred dollars out references, it may be that a good teacher will tal ,oor one. No longer have you any chat a decidedly young and inexperienced teacher at a moderate figure,
and then raise her salary if she proves and
Chen Mr. Fraser tells us that he justs wants to see
air-play. So say we all, hut for fair-play. So say we all, but for my part all the
fair-play I can see in this recent law is the fair-play of
dica-throwing

World's Leading Firm of Cattle Shippers cach month or even once a month Sampe days
ferst ing should allor be taken on the day or days
for weishing, in order to knon then Tor wrighing, in order to know the percentage of
fat int he milk This tokther with a close ob-
servation of the feed consumed l,w the cow will
 enate

- ITean.


#### Abstract

It is hard to understand why it is that sheep are constantly on the decrease in the Province of Ontario. I read in a paper not long ago that we had not as meany sheep as cattle. The Government has been trying to pry into the matter, and no good reason has been brought forward. But one reason given is that they are hard to fence in. A good many years ago, before there was pretty hard to fence the sheep with the fences we had in those days. But to-day there is no trouble, because we have good fences. There is alongside a poor fence, or out in the road, where your neighbors have poor fences, and keep them half starved, they are likely to go through the The Southdowns are considered to be the hardest sheep to fence. I have kept them for 45 years, and I have never had a sheep inclined to be troublesome about the fences. There is a good deal in the kind of fences. The old rail tence  keep sheep, very well, and still would not keep horses and cattle. Fencemakers say a fence is horses and cattle. Fencemakers say a fence is horse high, and bull strong, and hog proof never mention they never mention sheep. If it will keep out other stock, it will keep out sheep. stock, it will keep out sheep One year I had a field w of roots alongside of it, and it was not fenced off I happened to have some lumber alying arounca, and 1 put a 10 -inch board in the bottom and drove stakes, and put one-inch boards about 8 or 10 inches ifrom the ground, and not one sheep went over it. Another time I wanted to make a fence and keep them from another field, and I took two 6 -inch boands and tacked them on stakes in the same way. Of course, the lambs were small. keep them under all circumstances. As long as they have plenty of feed, there is very little trouble. cost of keeping sheep is very little, and they do a lot of good on a farm in eating up the weeds and waste grasses. $I$ think the best fence to put up to-day is the wire fence, for any kind of stock. I think it is very unwise to use a bad of stock. I think it is very unwise to use a bad rail. If you have a rail that is likely to go They are worth about the same for wood as they are in a fence. A poor rail in a Russel fence is are in a fence. A poor rail in a Russel fence is a bad thing for a sheep. I can build wire fences for the sheep alone at a cost of, 20 c . a rod, counting stakes and everything. I would not use posts ;


 would use a good strong stake.We have a fence that cost us
is good for anything. We have another fence that
we put up ourselves that it we put up ourselves that cost us 24 c . a rod-that
is , ,uyuing the wire and everything it is called
the ". London Fence." Of course, it is only the top and botton wire that is No. 9 wire.
In building wire fences, I would never weave in the top wire I I prefer a barb wire for the the
top, because it keeps them from rubbing. If it
is a smooth wire, and if it is woven in, then they is a smooth wire, and if it it is woven in, then they
lean over the otop of the fence, breaking hown the
stays. An eight-wire fence can be built for from
 For a sheep fence alone, I would not put more
than four wires They will not jump at a wire
fence. You could build a fence for $\$ 1.00$ a rod Yence. You could build a fence for $\$ 1.00$ a rod
that will keep the sheep in and the cogs out. To
do that, you should build it eleven or twelve wires high, and put brackets on the outside, and
uise barb wire at the brackets. Q. At what distance do you put your post
part for the high fence ? A. Twenty-five or thirty feet. Our own are
wenty-four ' I would put them thirty.
Why not put them 40? A. You can make a right good fence 40 feet
and then stake in between each post, especially if
you use heavy wire Q. Is spring wire the best?
A. Yes. if you take a straight wire and put
up tight the frost will contract it, and when t comes to warm weather it will hang slack, We .
have a fence of this coiled wire it is up seven
years, and it is just as straight now as ever it as. Did you ever try cement corner posts?
(2. Did
A. No, but I believe it wuold be a good thing.
Q. Is there any difficulty in putting a piece i plank one each side of the post?
A. It takes us half a day to put down one of ese posts. At the bottom, at the back side
our post, put a piece of plank 2, feet, and en, near the top of the ground on the other
le, put another piece of plank and then pack it
in well. That plank will rot in a very few years?
Thet a piece of good oak plank Another
is to take an ordinary post, and then take a g stone, and dig a hole oo the other stide of
our post from wher our fence is going and

THE FARMER'S ADVOCATE

## Why Not Tax Scrub Stallions?

Having had many years' experience with stal your paper relating to inspection and the pro-
posed
lien act. In the Western Provinces acts have been in force some years, In Govern mittle about horses as the animal who know as astronomy), the act is a perfect success ; in practice it is different, as any stallion owner taking
advantage of advantage of such an act would soon find himself
out of business. ers the same right as other business men to collect their dues, and that is all that is necessary
Inspent Inspection, if properly and honestly managed,
would do no harm, as unsound stallions should not be used, as we can certainly raise enough
unsound horses to supply the market for that class from the mare side of the marestion, as many blemished old rakes are bred every season. TThen,
if an unsound foal is the result, in many cases the stallion is blamed for the whole trouble. But instead of a himh license fee for worthy sires, nominal inspection fee of, say, $\$ 2.00$ might be
charged ; and it would be well to have the grees examined by competent men at time of in spection. If the idea of inspection is to improy
the the horse stock of this Province, then impose a
good stiff license fee on unregistered stallions travelling or standing for thind put the mongrels out of business, and their space would soon be filled by horses that would do some good. With stringent inspection of al tion would soon be settled. But how about the scrub bulls, rams, boars, etc., that are causing the farmers so much loss? Should not those tion fail to benefit the tarmer, it would at leas provide Government employment for a large num ber of inspectors. If an average was struck o the breeding and quality of the different sires used
by farmers of this Province, we would find that stallions rate far and away the highest. It seem the farmers are quite capable of judging wha kind of bulls, ecc., are the most proftable to use, in selecting stallions to breed their mares to notice that importers come in for a crack now and then for importing unsound and inferior anithe water, still, what kind of horse come across have in Canada to-day if we had no importers. Too much credit cannot be given those men who
have spent time and money in importing horses have spent time and money in importing horses
that have placed Ontario ahead of any Province or state in America in the quality of her draft
J. M. MACFARLANE.

## Horse Notes.

It pays the farmer to breed horses, only as it going at it right, and producing, at the least Colts should be trained to walk fast before ther gait.
The fact of a horse showing vice in the stable is most generally the result of their tempers hav ing been spoilt by wrong or bad treatment at
some time or other, and it is nearly always the some time or other, and it is nearly always the
fault of the attendant, and but rarely that of
the horse-barring the case of aged stallions-if the horse-barring the case of aged stallions-if
the latter develop any real viciousness. tendant or at other persons in a playful their atand when they are not checked in this, in time the erstwhile playful tendency to kick may grow
into a confirmed habit. Some horses are much more liable to be spoilt
by brutal or wrong management than others, this depending very largely upon the particular tem-
perament or disposition of each horse. Horses perament or disposition of each horse. Horses
which have a highly vicious temperament, or
which are which are possessed of a highly twisty temper,
will be upset and develop vicious tendencies by
treatment which may treatment which may not upset or rouse the tem-

## Would Buy Incubators on Trial.

## I

 paid for this way: $\$ 16$ to be paido october 1st, 1908 ,
and $\$ 16$ to be paid October 1st, 1907.
 was about right for the purpose, so I I set the in-
culator in it, but I had poor hatches. The incubator Would run up and down with the outside temperature.
It was in April, with cold and hot days, nights frosty. If I left it and the weather turned warmer or colder the thermometer would rise or fall;
then at night I had to get up once or twice if the
weather got colder or warmer near morning and give
to $110^{\circ}$ or down to $90^{\circ}$ of course 1 mas dienatiefted and wrote to the company, but did not getie vary results, and wanted them tor hatch, with no no bot but they would not with the machine, and rofuseed to talke it bock.
 if not pertectly setilefactory, But it gavo good hattocie in a poorer room for the purpoae than 1 had, and cos
 would advige anyone getting an incumat.or Hon bur
on 60 or 90 days' trial.


What Seed Selection Hes Done. SOME LESSONS DRAWN FROM VISIEING BREEDING PLOTS OF GRAN GROW
BY MEABELS OF THE CANADIAN BY MEMBERS OF THE CANADAN
SEED-GROWERS ASSOCATION Robt. Patterson, of North Renffew, Ont., has been yeaproving Red privileged to visit it for tirio seasons in succession. In the summer of 1905 his breeding plot and improved-seed plot aver
latter about ten acres in size) appeared to aver age twenty-ive bushels of wheat to the tare
afterwards hearned it went a littio better than arterwards hearned it went a little better than
that. He was offered $\$ 1.50$ per bushel for it by his neighbors for seed. He could only conseien his neighbors acert si.00 per bushel, as it was at-
fected with stinking smut. This season, 1900 , focted with stinking sunt, on a plece of timothy partly on pea-stubble ground, plowed, I believe in the spring. Being a very dry spring, the
ground lacked moisture, and the crop consequently ground lacked moisture, and the crop consequetitly
not only sufered in growth but it was smutting
very baily easy pryy to fungous diseasos, and Mr. Ratterson had neglected to treat his seed to lo lir the smut
spores. The treatment oo the seed with formain spores. The treatment of the seed with formalin
or bluestone would, no doubt, have helped in or prostune ouction of a, better crop p
thtil another good object-lesson was shown here, in that there was a distinct difference in
the appearance of the crop on the pee stubble os the appearance of the crop on the pea stubble ${ }^{\text {es }}$
compared with the timothy sod. that on the pea compared witu the timothy sod. Thuch thriftior, aud, where the pea
swo or
three three loads of fine stable manure had been plied as a top-dressing, its locality was easily die-
tinguishabie by a much ranker and haithior growth of the plants, due largely, no doubt,
only to its helping the soil to retain moid but to a certain amount of absorption and to but to a certain amount
tention on its own account
Mr. Scissons, who lives in the Ottawa Vallay oats which Co., had an improved seed-plot of years. The original seed weing obter four or five Experimental Farm, Ottawa. The two or more cres of it looked very fine, and we estimated the Scissons said he had noticed a per acre: Mre. Scissons said he had noticed a marked limprove-
ment in the oats ever since he began to select uen the the oding ever since he began to select and
use this last season he had neglected his rbeeding. plot, owisg to pressure of
work in building but phat work in building, but had retained, his hand-se-
lected soed for another year, I believe. ected soed for another year, I beliived.
On the farm of Mr. Geo. Boyce, Coum could be seen from the roadside an improton ©o. plot of about four acres of Banner Oats, which was remarked upon by the passer-by as being
particularly even, and giving every indication or a 60 -bushel-to-the-acre yield. Mr. Boyce bought some improved seed two years argo, and thinks it paid him. His breeding plot was very fine, he
having shut up the alternate spouts of the drill, and thus allowed a double space bet the drill, rows, which he hand-hoed, thus keeping the weeds this way and eliminate go through vis plot in
the varieties of oats and grain to keep his. seed pure, without tramping very much of hit down, pure, without trampplots, but elsewhere, that many of the Hoyce's glumes were empty-a feature $I$ could not account
for, when other varieties seem Mix. Dovid McKan, of Glemengarry Co., has for six years, selected Red Fife wheat, with great
satisfaction, as his plot of finelyedeveloped hent satisfaction, as his plot of finely-developed heeid
indicated. Mr. McKay said that while it some trouble to do it, he believed it pala to
select.
While inspecting Mr. D. G. Thompson's plot of compton's Early corn, which was giving nine
promise for a good croo to a small piece of sweet corn Mr. Thompson had Tor market purposes. I could see at a glance
that one half was two or three see the other part and looked much thes higher than if anything, Mr. Thompson informed me, the other part was better manured. What caused the ditThompson had ply that on the best part Mr kept and cured for seed from his crop the previous
year, while the other year, while the other part was planted with the of the lakes, oniy the seed had been grown, south Mr. G. H. Hutton, (Grenville Co. was ale demonstrating the fact that home-grown corn so
eured for seed was better than
broeding plot of Compton's Early, ${ }^{\circ}$ This year
compared with last year, it was showing a de compared with last year, it was showing a de
cided improvement in growth and amount of ears
IIr. Hutto Mr. Hutton was going to take up bean improve ment in a similar way, and this in a section
where the seed for hoe crops is where the seed for hoo crops is usually bection
from outside points, excepting potatoes. Mr. Trinder, Norfolk Co., had a rows of corn across the field alongside of his other corn, and which was given the sime cultivation and was the same variety, only the corn on the
eight rows was selected as the very best out eighe seed corn he had saved. He said he could
the scarcely have believed it would have mede so much difference, but he had notice have that the eight
rows had done better from the very only for the very dry weather, it gery first, and, good yield of corn.
at Mr. Paye, St. Catharines, had a breeding plot, It did side of which stood rather a large tree. that tree, especialli an this eye to sear, see the enfect of his breeding
plot. For fully a rod or more in all direction plot. For frelly a rod or Moare in his breeding
it had been draining the soil of moisturections
the until thed been draining the soil of moisture, until the corn had become very stunted and sickiy. N
preeding plots should be handicapped in that wa it could be avooided
In Mr. J. W. W. Clark's plot, in Brant Co., an in hemvy rain on the taught in the effect of soil at the time of planting . The plito had the
fully prepared, and half the plot fully prepared, and phalf the plot had plot had been
when the rainted when the rain stopped them. As soon as the
chay soil had dried enough, in three of four days,
the the rost wad dried enough, in three of four days, vation was gianted. Thiterwards the same culti-
much better in growth and proplanted corn was much better in growth and promisise oo corn ear, was
I have since learned that it turned out so in the Still
he Grand River Volley, plot, Mr. Vansickle's, in son in the prevalence of smut and its distribution. In his corn plot of Whitecap Dent, which was on light, sandy, rich soil, a great deal of corn smut
or bunt existed in both the tassel and ear aflocted even some of the joints of the stalk. In Held of 22 acreas, on the other side of his with his improved seed of the- previous field, planted with the same variety. There was a variation and soil in this field, and one could trace it by the
provalence of smut. On the heaviest soil the preralence of smut. On the heaviest soil the
comparatively free from smut, on the
clay loams a little more and clay 1oams a little more, and on the sandy loam
similar to the soil of the breeding plot the similar to the soil of the breeding plot it luxuri-
ated. Whether it was due to the corn naturally going deeppr in the loose loamy soil or not, as I have described them.
The visiting of other plots was very interest-
ing, but the lessons, such as I have enumerated
above, were nos effiects of good not quitivation, strith a plent The general of ready -available plant food, of course, was frequantly noted.
I am more than ever convinced that it will
pary farmers to take
sary sary, to improve the a little extra time, if neces-
field crops according to and yields of the their field, crops arocording to to the methy yields of their
the Canadian Seed-growers' Athods outlined by Ontario Representative T. G. RAYNOR Agriculture.

## The Exportation of Electricity

An important bill to regulate the exportation of
electric power, also such fuidsas as petroleum and natural
gas, is to bo introduced for the cond gas , is to be introducod for the consideration of Par-
liament at an early date oy the Minister of Justice. By the bill no person shall ax. specilying the amount to be exported. Persons engage In the lawful exportation of power or fluid prior to the passing of the act shall not, however, be subject to force, it boing stipulated that their exportation during orting befo shall not exceed the amount they were ex y the Minister shall be revocable as he he sees git, and any license may provide that the quantity to the and
ported shall be limited to the surplus anter the cus ported shall be limited to the surplus after the cus-
tomers of the licensees in Canada have been supplied to the extent defined by the license, have been supplied to
with the conditions prescribed by the acordance with the conditions prescribed by the Governor-in-
Council. Tor infringement of the act a penalty of not lest
than
$\$ 1,000$ and not more than $\$ 5,000$, for each day in whioh the ant was viore than sha, $\$ 500$, for each day
gether with the forfeiture gether with the forfeiture of any lile or pimped, which
may have been laid for exportation purposes without license for constructio
duties, not exceeding 81 Governor-in-Council to impose exported from Canada, and to grant exemption firom the paymment of such duties to stanh persons as comply
with the direction of the Minister with with the direction of the Minister with regard to the
unatity of power or fuid to bo supplied for distribu-

## cifect of Sheep on Pastures

for othar shoep storp pastures too closely and foul it
S. Arkell Fair. A. C., Guelph, at the Ontario Winter
opening, is rather that is assigned me, said Mr. Arkell calls the warfare that used to exist between the sheop herders and the cowboys of the Western ranches.
cowboys
The cowboys mere accustomed to accuse the sheep men of
leading their flocks to the best pasture making it practically ueeless for the on the ranches followed, and we have reed of how the catle that they their horses through the flocks of sheep, killing them
right right and
precipice.
Easteme time ago sheep were kept in large numbers dairy cattle. Travelling throy have given place farmers how it Travelling through there, I asked the said they could not they had given up sheep, and they
the same the same time.
There are
be acro ano cases, probably where the sheen not know that the sheep are ansture too closely.
the other class of stoep are any more to blame than with the farmer most, in turning out that the fault lies in the spring, before the pastures have had ao eariy that the weir started, and to get so firmly established If the animals were retained in the strable for orer it. of weeks longer, you would have tar less trouble. as possible, and we usually put them in the som as early where we do not mind injury to the grass. Anothe
case where the case where the sheep will make use of the pasture, al
the expense of the other stock, is where the overstocked. Sheep crop the pasture a the little closely, and leave little for the other stock, and, there
fore, I
think we should aim to keep the number fore, I think we should aim to keep the number of
animals that the farm will maintain throughout the year. It is best to keep sheen moving throughout the
 because it is the time when pastures are most lux find that the it goes to the latter part of July, we and that the pastures have failed. a little bit, and
then we must took around for something to supplement What we have provided for them, and our practice is clover early onough, soond growth of clover. We cut
diately the the the tambs can go imme We do not let them gruwth.吕 a dine of hurdes acruss over the field eande field; wo that way, but on half of the tem-acrer dield we can run
a number of lambs. If the lambs anve been a number of lambs. If the lambs have been weaned,
the ewees will do best on the dry pasture. We like
chack check their milk fow as soon as possible. We like to
not nes do the lambs have been of weaned for and month or two after run on the stubble, or any place where they can pick up weods, and that is the time when the ewe flock on
the farm do most for the farmer weeds. We plant a field of rape about the middt the Uune, so as to have the rape for the fall pasture for
the lambs ; that will keep them in there will be less danger from disease. keep in mind in sheep management. First of thight
 weeds, and, therefore, a fow sheep should be kept on
their farms. Another point is, that we must not stock the farm with any point is, that we must not over-
if possible, keep the ne number of animals, and we wust, If possibie, keep the number of sheep on the farm reva-
tive to the amount of land we have. We do not heep
sheop Sheop on the same old pasture year arter year, because,
if they are so kept, they will develop disease. You
should keep them movin every two or three yoers have thum on possible, and
of the farm. Clover is best tor the anderent part
$\qquad$

 find that the growth of rape paid for the trouble that
was taken in sowing, and the lambs rubbed the wool of their necks bowing, and the lambs in the stubbuble, and the wool siviled the looks of the lambs.
Q. - What
Q.-What would be a good profit on 14 or 15 sheell
$\mathrm{A}-\mathrm{A}$ good averago is 6 to 7 .
 that makes $\$ 7.50$, ond $\$ 1.50$ morase $\$ 5.00$ for the lamb,
you should get fairly within that $\$ 9.10$, and you should get fairly within that figure every ear. and have you any trouble with the fores the Faster trade,
and not breeding the next year ?
 aged male e
A.-Certainy, if you can pay the price for the aged
male, but I think with a small male, but I think with a small thock price for the nged
get very good results from a lamb. Q.-Your lambs won't be so strong no from a four. A. - Not quite perhaps, but the question is.

## Owners of the Land.

 that, by man who stands upon his own soll, who feelethe the of the land in whieh he lives, he io the rightul and exclusive owner of the land which he
tills of a man as the lord of an inanimato toride character great and wonderful sphere, which, fashioned or this hand of God, and sphere, which, tashioned by the
this power, is rolling to the ske heavens, a part is his-his from the center before moved it is the space on which the generation self connected by a visible of duties, and he feels himhim, and to whom he is to transmit a home fathers. They have gone to thelr lost him from his can trace their footsteps over the scenes of his daily
labors. labors. The roof which shelters him was reared by
those to whom he domestic tradition is connected with Some interesting The tavorite fruit tree was planted by he tasure. hand. He sported in boyhood beside the brook whr's still winds through the meadow. Through the field still hears fron the window the or earlier days. He bell, which callee bis fathers toice of the Sabbath near at hand is the spot where his parents lay down be laid, and where, when his time has come, he shall These are the feelings
Words cannot paint them of the owners of the soil fow out of the deepest fountains of the heart ; they are the very life-springs of a fresh, healthy and gey-
erous national character.
EDWARD EVERETT.

Insurance Against Loss Through Dogs. From time to time there are articles apearin your valuable paper regarding sheep and their protec.
tion from dogs, and in a lengthy article, heing port John Campbell at the late winter Fair held liven by $M_{r}$ in reading those different articles one caulph see that prevailing idea is that dogs should be taxed, and that said taxes should be used as a furid
to pay in whole or in part for sheeop killed or worrud 1 may say that I fully agree with the ide hogs should be taxed, as that will help to limit the taxes to pay fur shoen deatro the idea of using said agree, on account of its unfairnoss dogs, I wholly disa course, everyone keeping a dog pays into the tund the same amount, irrespective of the number of sheen the
each each may possess. Now I ask, is it fair that a man
owning, say fifty the same amount as the man that owns insured for five, or, it may be, none? Quite a fow of my only
bors have no shee bors have no sheep, but they have a dog, of my neigh-
would be pourse who might $s$ wn one hundred (to put it in as few words as possible) Mond plan for every dog $\$ 1.00$; if moro than one is kout be to general fund of dog; let the taxes for dogs go into the company for our sheep. micipality, and start an insurance a member of said company, if any loss who becomes amount tontribute to said loss in proportion to the it is very unfair or that a has insured. In my opinion
be expectect nan who has no sheep should be expected, nay, more, forced, to pay into a fund from
which he would derive no benefit Wishing your valuable paper alt is may encouras ate paper all success, and hoping

Live
The death Association Secretaryships. Branch Mr. A. P. Westervelt, Airector of the temporary arrangebeen appointed Ontario Department of Agriculture, has acting in the same readers' Association. He is also ers' Association, in order to facilitate matters in Breod epportunith these associations until they in con opportunity to make permanens unill they have an
suggestion has been made that these suggestion has been made that thespointments. The
appoint some person, possibly interestions may to act as secretary, while details in connection breed, the memberships can be deatails in in ionection with
Record Office, together with the wecords the National Record Office, together with the records. The National
flieve the sould ever time would be at his disetail work, and what ever cime would be at his disposal would be devoted
to pushing the interests of the breed. As already announced in these columns, Mr. G.
Green has been

 Wade was Secretary. A new Ontario Horso inch Mr.
 at the last session of the Ledized under the act passed
Westervelt has been andure. of which $\mathbb{M} r$. are not aware been appointed Secretary-Treasurer. We are not aware that any arrangecement base buearer. We
regarding the smaller nassociations made
ras as Secretary. These, as well as those of Mr. Wade

THE $F A R M E R S$ ADVOCATE

## Eastern Ontario Dairymen's Convention.



## Thursday CHEESEMAKERS' DAY

ing G. A. Putnam cheesemakers' day In the morn Institutes and Director of Dairy Instruction, cleanliness exporaneously on the everlasting text milk supply and first-class article of cheese

$$
\begin{aligned}
& \text { Mr. PUBLOW'S REPORT. } \\
& \text { G. G. Publow. Chief Dairy Instruct }
\end{aligned}
$$

$\qquad$
work of instruction, he said, was carried manner similar to that followed the year before instruction having been given to those factories applied so late they could not be included in inever, syndicates. Incidentally, Mr. Publow pointed out
that this system great drawback, as he never can tell just how
may instructors will be required in may instructors will be required in any particular
year. Last summer the 28 instructors visited year. Last summer the 28 instructors visited
727 factories. The loss of a number of the best instructors was deplored, and substantial increase
of salary indicated as necessary to retain the of salary indicated as necessary to retain the
best and most experienced men for the work. At present the instructors can make more out of a
good factory than at instruction work. As usual,
the instructors spent a ten an ays' course at the
Kingston Dairy School last Spring ere commenc Kingston Dairy School last lat pring ere commenc-
ing their season's work. The 727 factories received from the instructors hot weather, when the cheesemaker's troubles are
hot wife. By visiting the factorics rife. By visiting the factories at short intervals,
and spending some time in the curing-rooms with

Turning to the raw-material side of it, the speaker regretted that there was not as much im provement in the milk supply as had been expect
ed. The nature of the season was ascribed as an adverse factor, but the principal trouble is that a certain proportion of the patrons do not
furnish themselves with means for keeping furnish the
milk cool.
During the summer the farms of 3,352 patron were visited, and a large number of meetings held, so that the number of patrons who do no know how to care for their milk must be very
small. It is encouraging to note that a great many patrons have made satisfactory improve ments. Nearly all instructors report that many new milk cans have displaced the old, rusty ones, and probably more new milk-stands, with facili
ties, erected than ever in any season before. It is neglect of a few patrons in each factory that causes the trouble.
Tests for adulteration were made to the num-
ber of 78,086 , of which 173 samples had been culprits $\$ 1,800$ was collected in fines, From the into the factories of which they were patrons. The only way of preventing this persistent habit " Never, in the history of my work as Chief Instructor,"' said Mr. Publow, "have I been able money expended in repairs, buildings and equipment of factories." There were 396 factories re paired and 34 new buildings erected. The esti-
mated cost of these improvements was $\$ 119,998$ and before the opening of another season this amount will have been largely exceeded. Already it is $\$ 19,000$ more than the total of last year.
Never before were the factories kept in such clean and sanitary condition. For the above improvements, much credit is due the sanitary legislation passed at Toronto last spring.
One of the greatest drawbacks in getting the
manufacturers to improve their the lack of protection afforded plants has been turn for money expended. The proprietors are making on a small margin, and never can be sure when some of their patrons will leave or someone else come in and open a factory near-
by, thus cutting into the business on which they

As a result of improvements in factories and equipment, it is gratifying to learn that the quality of our cheese has been of an exceptionally
high standard, although makers experienced a certain amount of difficulty in the hot weather There was a marked decrease in the number of ro claims, and the June, September and October for fineness of quality small number of acidy cheese.
ods, is eviders are adopting more uniform meth ods, is evident from the fact that when the
cheese from whole section cheese from whole sections was inferior, there are serious trouble.
acidimeter and pure cultures appliances as the attention being pure cultures, aided by the greater there is no reason why the defects in the curd facture should not be largely overcome. man The finish and general appearance of has received more attention, but there is still In the early part of July the instructors were given their third visit to Montreal, where com chants. ing-rooms improvement is being made in the curduring the past summer resulted in the shipment of green or uncured cheese. The effects are now chants of short weight and injured Country During the past season he had greatly the official referee at Montreal, whose reliable Chief Instructor, enabling him to notivice to the instructors promptly whenever the cheese from any of their factories were faulted by the buyers. factories were attended by of annual meetings of tors, and addresses given. The results hanstrucvery noticeable in the way of an improved been supply and in the general interest taken by the
people. Patrons are people. Patrons are reached at these annual ing called purely for educational purposes a maetinstructor, too, becomes better acquainted with the patrons, who appreciate his afforts more read-
ily the following season speakers to address these meetingy requests for ceived. If the instructors were employed been received. If the instructors were employed by the
year, and their services thus available to the
Chief in winter and
accomplished by sending them round from place turers a quarter-inch steel-plate tank of 15,000

Changes In RIPENING OF CHEESE. Following Mr . Publow's address, there
some general some general discussion of points relating to
cheesemaking. In reply to a question, Dairy Commissioner J. A. Ruddick explained that there are two processes in the ripening of cheese, one
of chemical and one of bacterial nature. While knowledge on this point is not very definite or positive, it is believed that the chemical change
has to do with the breaking down or ripening of has to do with the breaking down or ripening of
the cheese, and the bacterial developments account the cheese, an
for the flavor

TWO CLASSES OF SOURING BACTERIA Prof. W. T. Connell, Bucteriologist, of the dress on the subject of dairy bacteriology. The souring of milk, as all know, is produced by bacterial development. There are two classes of a clear sour flavor. The other produce sourness accompanied by gas, with which is usually associated a flavor varying from not quite clean to rancid. The former kind, called lactic-acid baccommonly found in the fore milk of cows. The second type, Bacillus Coli, is also common abou dairies, and an almost constant inhabitant
the excreta of animals. It is abundant in utensils not properly cleansed, for the ordinary cleaning cans get rarely makes them bacteriologi cally clean. Rusty cans, and those with rough eams, and in bad case them pure.
Prof. Connell concluded by drawing attention to he common dangers from pollution of water paid to purity of water time more attention is NEW ZEALAND COMPETITI
A buzz of competition in cheese who quoted the Canadian Lord High Commission or to the effect that New Zealand cheese had been outselling Canadian on the British market. Mr Ruddick, called upon, explained that the antipo eason, when, as a rule, cheese in Britain is in greater demand than supply, hence its limited out year, hight easily realize, as was the case last oes not mean that their than ours, but this or, as a matter of fact, the reverse is the case. Our cheese, as made, are considerably better than those in New Zealand, although, owing to their curing. They can cure their cheese without diffi culty at 65 degrees. It is true the past year showed a sudden increase in the British imports
of New Zealand cheese, but their whole make is small, and they are not going to prove make is able competitor for us at all.
J. H. Singleton pointed out that one ad J. H. Singleton pointed out that one ad-
vantage the New Zealanders have is that their factories are very much larger than those in cer-

> MOISTURE IN DAIRY PRODUCTS
ject of an address Dairy Products" was the subGuelph. Considerable work is being done at the discover reliable and practical Prof. Harcourt to ing the moisture content of butter, cheese and curd. These methods have been described in "The Farmer's Advocate" during the past year, aut will be repeated in full report of Prof. Dean's of note here. In his introduction, the speaker argued that, while he believes butter should be
made rather dry. He thinks we made rather dry. He thinks we might, perhaps, amount of moisture in our cheese than we greater been doing. His explanation is that the have
in butter is well water or spring water, while the noisture in cheese comes from the milk serume ent principle, hence an excessive water content in effect on keeping quality than would a slijurious ess of moisture in cheese. He advises makers changes of method that might endanger keeping quality, but would like a few wide-awake factorymen to do a little experimenting along this line in
a small way. The simple test for moisture in a small way. The simple test for moisture in
curd is based on the principle that a given
volume of curd becomes lighter as the curd is based on the principle that a given
volume of curd becomes lighter as the moisture is
expelled. expelled. STEEL WHEY TANKS.
Mention was made two or three times of steel Whey tanks. Prof. Dean has had ten sears' ex-
perience with such a one, and unhesitatingly
recommends it for durability and ease of cleaning recommends it for durability and ease of is simply a boiler shell cut in two, and having feet high, and cost $\$ 40$. Questions as to the of a larger tank, elicited fram someone the
pounds capacity for $\$ 110$, f.o.b.
Prof. Dean condemned the underground whey Prof. Dean condemned the underground whey
tank on the ground that it was difficult to keep clean. He also advised against using cement. Some wondered how he would get the whey into the elevated tank as fast as it ran off from the
vats. His plan was to have an ejector, or several of them, but the protest was that a good many ejectors and a lot of steam pressure would be needed in large factories. Others present
claimed to have had satisfactory experience with claimed to have had satisfactory experience with
underground cement tanks, into which the whey was run before being pumped into the elevated was run before being pumped into the elevated
tank. Prof. Dean had no objection to such if it could be kept clean.
the matter of grading, etc.
address on Rudtick. Mominion Dairy Commissioner, in an Dean's opinion, that more moisture mint from Prof. ously be left in our cheese. As a result of experience With inn lots of cheese in the four Dominion coolcuring ronms, his advice was to leave a little less for cool-curing were too moist; none were too dry inton the question of how soon cheese should be put he said there might sometines be a little trouble fron, mold and soft rinds. This could be prevented by allowing the cheese to cool first on shelves, then put-
ting them into the curing-room not more than after making.
That suching the matter of compulsory grading, he held ingly. At present there are factories actually getting a cent a pound above ruling prices, because they have for years, by persistent eflort, established a reputation
for making uniformly good cheese. $\begin{aligned} & \text { Others are being }\end{aligned}$ cut from time to time, but the check is made out for Similar practices would occur under a the the difference. Similar practices would occur under a system of grad-
ing. Official grading, as practiced in New Zealand,
has has nothing to do with the matter of prices at all
Grading has done much for the cheese industry of colony, but here it would be very difficult of accom plishment, and, after all, the matter of factory 1 an danger from shipping cheese green. During the last two or three years, said Mr. . Lud-
ick, we have heard much praise of our cheese from the old Country, but we praise of our cheese from the evil effects of shipping cheese too green, resulting in serious deterioration of quality and loss in weight on arrival. He read one of many letters to hand from
British merchants, pointing out those dangers merchants make much of any shrinkagangers. British anything that looks to them as, if they were leing imposed upon, and he knew of no more serious menace
to the cheese trade in recent years. Some spirited discussion took place on the question ing cheese right from the hoops, often promising more tor Saturday's make to be shipped on Monday than for
the same held a fortnight in the Mr. Ruddick held that there is no no use blaming the merchants, for they will do it if there is a dollar in the business. The makers must realize that any injury to our trade will bear finally upon them, and it is for
them to protect their trade by refusing to allow the cheese to leave the factories green. Others prowtested that the poor maker is not to be blamed for selling
what the merchants insist on having, and argued that What the merchants insist on having, and argued that through the country the ofenders, for going about

## Something should be done ahout this

 ne without delay. The present position is that buyers are hustling to get cherse before each other. Onthe othher hand, it is idle to expect. a maker to refuse
a tempting price for green cheese when he knows nine at of ten his brother cheesemakers are shipwho may be depended on to sacrifife an immediate per-
sonal gain for the sake of prospective general RESULTS OF COOL CUIRNG:
Fixperience with cool-curing firmed that of prevevous years. $A$ ast season has con-
Ruddick from a leading firm in Manchester lends Mr.
to there
$\qquad$
On going through a line of white and colored cheesa few hundred boxes for a very particular buyer. We with the quality, and he was not altogether satisfied ts, we picked 400 sor 500 and. On going to the colored factory, and our buyer expressed the pleasure that
was to have cheese of this kind as as near perfection of this kind offered; can get cheese. (ionernment saw that the colored had been cured "hite had been cured in the ordinary way. whille, while
$\qquad$
 minds it monkes a very much
ery much higher place in the opinion of the trade Signed)
Let us eat five times as much ceees UCH Chees cheese in Canada was an important conic touched Mr. Ruddick. From various, though somewhat inc capte data. it was estimated that our present apit.a
consumption was alout six or seven pounds
year much with advantage to both producer and consumer Prices for all kinds of dairy products are still low compared to meat. Cheose is a cheap lood at
cents, and milk is cheap at 6 cents a quart since quart contains as much nutriment as a pound of beef Aside from the general demand, there are plenty of rich people in our cities who would gladly pay 10 12 cents a quart for first-class pure milk, and 16 cent present it is difficult to get choice cheese on the dian retail market, except here and there, where somed grocer had made a specialty of supplying his customers of grave neglect to cultivate our home market guilty mentioned a lot of 100 small cheese that had been made to his especial order, cured at a temperature of $58^{\circ}$ to were sold to various persuns who bike made. They cheese, and never had he heard so much praise piece of the quality of cheese. Anyone catering to a home market with such goods would find a very remunerative
demand. Two of these among the audience, where their meaty, and distributed among the audience, where their meaty, silky texture
was highly commended. He took pains to distinguish ool-curing from cold-curing. Cold-curing (about. $40^{\circ}$ ) will produce some very fine goods, but he thinks we are "cheesy, as a general thing, to get a somewhat higher
at $60^{\circ}$ than at $40^{\circ}$.
what the mfrchants had to say Mr. Harry Hodgson, the cheese merchant of Mont May quality of our make last summer was excellent in May and June, but fell off somewhat in July and ast year. but he would like provement in the boxe little bit stronger.
Referring to the fact that makers had beon standing cuts in the price of cheese from their factories, having said that thing is at an end. He favors the re-appointment
at Montreal to settle disputes as to grade between
buyer and seller. yer and seller.
Mr. Wieland,
organizations in a britain, said in substance
Don't sell organizations in Britain, said in substance
Don't sell cund for cheese.
The flavor of our cheese the past summer, while acter or cheese flavor. heen a little hit lacking in char-
Shipping too green was blamed
for this or this lack.
dairying in china and canada.
the common dairy sing of omission and commission Alfalfa is one of the most promising points: ario farmer can grow. He has grown it the Onthe way, he considers about a large enough farm to In cooling milk, bear in mind busy the milk should be applied to the the principle that
stead of putting the cooling Wead of putting the cooling medium into the milk. are plenty of people in cities who will pay payly. There
cents a quart for 10 or 12 At present the patron who produces poor raw mate-
rial receives as much as the other the progress as much as the other. We will never make
according to till we pay for milk and cream There is need in this country for one chemist and Having delivered himself of the above practical ing his eyes upon an ancient coin he held in his. hand.
he interypeted an amazing amount of histofy and preChinose prophet named Milk Can, it sees thereon. A thousand years ago, had told of the development of
dairying in that country to a country between the Great Lakes and and transfer ocean. Here it would flourish Lakes and the Arctic accuracy to the description answered with astonishing ending lights at present connected with of certain
 Chinese industry, but here the signs of the fate of the and the voice of the interpreter faltered to indecisision The ROBERTSON'S AdDress.
d friend and convention was fortunate in hearing from it of the Macdonald Agricultural College, which is to ing the geologic period when the Bellevue, Que. Recallmssible recurrence of that conditice, he anticipated a on to point the futility of nitione sordid striving after
ARY 17, 190
THE FARMER'S ADVOCATE
such as this could
power of the people
Enumerating a few natural principles, such as con -mphasized the dominating power of man's intelligenc
-ver all. For instance vas doing work in seed selection capable of increasing tates. Prof. Grisdale, of production of the United that yields can be increased $25 \%$ by rotation of crops,
The limit of a man's power to possess is the meas Dairying conserves fertility
acres of land, if exported, will take out of the country
more fertility than $2,000,000$ tons of butter.
Prefer a man of positive character, even if he has
ome faults. Some men have nothing that is bad, and thing. A little knowledge is a wonderfully nourishing
and comforting thing. Stupidity and indifference and
dishonesty are dangerous.
back to the sughar bowl.


 treasure in intellectual power.
O COMBINE INSTRUCTION AND INSPECTION. Friday morning was principally a business session.
A. Putnam, Superintendent of Dairy Instruction,
submitted the report of the joint committee representsubmitted the report of the joint committee represent-
ung the Fastern and Western Dairymen's Associations,
to consider the matter of amendments to Dairy Act. At present the Government employs,
through the two associations, a large staff of creamery
and chesse-factory instructors, to visit and assist fac. and cheese-factory instructors, to visit and assist fac-
tories which pay a certain fee for their services. In
addition, we have under the Act passed last session two sanitary inspectors, with power to insist on clean
eanitary conditions about factories and farms. These visit all factories without fee. It is now proposed to
combine the functions of instruction and inspection ombrine the functions of instruction and inspection,
making every instructor a sanitary inspector, imposing a fee on every factory in the Province, and thus bring-
ing in the backward factories which need it most of all. A resolution, asking the Provincial Government tions of the joint committee, was carried with but two
dissenting votes. AMONG OURSELVES.
Then there were some heart-to-heart talks by J.
Ruddick, J. H. Grisdale and G. G. Publow. Mr. expected in introducing cool-cured more difficulty to fill whole orders with cool-cured cheese this vou:-1 ohange. There had been a regrettable tendency to con-
fuse eool-curing and paraffining. The two have no eecessary conngection whatever.
Prof. Grisdale wanted makers
egarding the farm end of the business, to take a ympathetic interest in the welfare of the patrons,
specially in case of the small producer, and try in their own interests to increase the output of milk. He would
have them post up in their factories and distribute have them post up in their factories and distribute
among patrons in spring posters and folders, supplied Pree from the Experimental Farm upon request, remind-
ing them to sow crops for provision against the dry weather in summer.
He also urged them to help awaken interest in cow
records, take a leading part in organizing cow-testing associations, and get the patrons to correspond with
the farm to secure forms for keeping private milk rec-
ords of their own. rds of their own.
REVISION of CONSTITUTION.
In common with some similar institutions, the con that has been mooted ing the change, the proposition tion of county dairymen's associations was wisely ig-
mored. Instead there is to be provision for the holding under superintendence of th



 other plan.
RESOLUTIONS.

Whereas the ouring rooms established in 1902 , on the cheese cool-
ground that they have served the purpose for which they were intended; resolved, that this convention place on record tion which they have afforded and impetus given to a most important movement for the betterment of the
Canadian eheese industry, viz., the cool-curing of cheese. Canadian cheese industry, viz., the cool-curing of cheese.
A resolution was passed, thanking Mr. E. G. Henrson, Manager Windsor Salt Co., for the handsome Vges donated for the convention.
Votes of thanks to the press, railways, city and
inty councils were also placed on record.
of presidency and introduction of considerable new blood
to the directorate. The retiring president, D. Derby-
shire, was presented by the directors with a cane, and shire, was presented by the directors with a cane, and
made Hon. President for life. President, J. R. Dargavel, M.L.A., Elgin; First President, L. Patton, Brockville; Secretary, R. G
Murphy, Brockville ; Treasurer, J, Anderson, Moun tain Grove. Directors-Glengarry, Mr. McGregor, Alex
tater Grant, Moose Creek : Russell, sell ; Dundas, Mr. Whittaker, N. Williamsburg ; Car-
leton, E. Kidd, North Gower; Renfrew, J. H. SingleGrenville, G. W. Carson, Charlesville, and Almonte Brockville; Leeds, J. R. Dargavel, Elgin; Frontenac,
Wm. Guthrie, Perth Road; Lennox and Addington Wm. Guthrie, Perth Road; Lennox and Addington
Robt. Metzler, Odessa; ; Prince Edwand, D. Young peterboro, G. A. Gillespie, Baden: Northumberland. T. B. Carlaw, Warkworth; Haliburton, Victoria, Durham and Ontario, H. Glendinning, Manilla. D. Derbyshire,
Brockville, Hon. Pres. for life; G. G. Publow, Hon PROTECTION FOR FACTORY PROPRIETORS. A feature of the convention was a meeting of cheesegeneral programme. One of the topics discussed was
afterwards considered at a directors' meeting of the association, viz., the desirability of devising some sys prietors from cut--throat compotition by young men and
others who endeavor to start factories wherever pportunity seems open. This often results in tod
many factories, and causes proprietors to be timid many factories, and causes proprietors to be timid
about making expensive improvements for fear the in-
vestment might be spoiled by someone vestment might be spoiled by someone who offers to make cheaply en
of the patronage

CREAMERY BUTTERMAKING
By J. W. Mitchell, B.A., Supt. Eastern Dairy School. In my remarks upon creamery buttermaking I pur-work-some of our sins of commission and omission-
and in doing so I feel that I can truthfully claim to be a sympathetic critic.
For us to rest self-satisfied, with our cream-gathering creamery system in its present state, would be the
height of folly. Our butter is not all that it should be, and it is better by far that we note the defects,
point out their causes and seek to remedy them point out their causes and seek to remedy them.
During the past season I had the privilege of y ing most of the creameries in Eastern Ontario, witness-
ing the condition in which much of the cream arrived at the creameries, and examining the butter made creameries of the Province entered the scoring contest inaugurated this last year, wherehy samples of butter
were shipped monthly throughout the season to Guelph were shipped monthly throughout the season to Guelph,
to be there scored by experts, and I had the opportunity of examining a number of these samples. Not
only were they scored when fresh, but they were held for a fair length of time, to be subsequently scored and judged for keeping qualitios. In addition, we had
samples of butter shipped to Montreal from severat Eastern Ontario creameries, and there held in cold storage for a reasonable length of time (four to six weeks), after which I examined them, in company with
an expert from one of the largest export houses of After this and several previous years' ex-
perience in connection with the cream-gathering creamery
system, system, I feel that the following facts should be stated, 1. While much choice butter is made in our cream 1. While much choice butter is made in our cream-
eries, too much of the cream arrives not in fit condi-
tion for making a prime quality of butter-its flavor is 2. Too much of the butter manufactured is inferio In quality when first made-its flavor can be no better
than the cream from which it is made. 3. Generally speaking, our butter lacks in keeping
quality ; even if fair in flavor when first made it rapid ly deteriorates, and this is a bad fault in butter for How are we to overcome these defects? First, we need hetter cream, and I realize that it
is a herculean task, the obtaining of it. But we must persist in educating and training our patrons to procream. In many cases the trouble starts at milking
time. The milking is done in a dirty yard or stable, time. The milking is done in a dirty yard or stable,
or the cows are not properly brushed before beginning to milk, and as a result the mill becomes contaminated from an impure atmosphere or through particles of dirt
falling into it. This is similar to allowing weed seeds to be scattered over a clean fallow. The milk in the
 particles of dust gain access to the milk and carry with them undesirable forms of plant life-weds, if you
will. for this is what they really are-which in will, for this is what they really are-which in their
subsequent development produce bad flavors in the milk cream and butter, just as foul seed will produce a milk, crop or bad yeast produce bad bread. Remember that milk is an ideal seed-hed for almost all forms of germ
life-these organisms are minute plants. separator may be in an undesirable place, or it may e cream may be kept in unsuitable surroundings.
as free of these bad-flavor seeds as_pos The next step is to make provision for rapidily cool say 50 degrees-until sent to the creamery, thus check ing the growth of the organisms that do gain acces to it. This is the crying need in connection with our cream-gathering creamery system to-day. As proof
this let me cite the fact that the butter that won firs place in the last season's scoring contest at Guelph was made from cream that had been properly coole perative for at the farm. It becomes absolutely im ing their cream. A great many farmers made the fata mistake of discontinuing the storing of ice when they would, in some mysterious way, that the separator necessity for storing ice. I have little hope of obtain-
ing a really first-class quality of cream for our cream eries until the practice of storing ice becomes general. 35 Make a fairly rich cream, say cream testing 30 to 35 per cent., and you will have more skim milk, and a cream that, will give your buttermaker hetter and a cream
satisfaction.
Many of our creamerios need better facilities for gathering the creain. The tanks or cans should be good canvas cover. In many instances the haul is intirely too great; that is, the cream is kept altolarge too long on the road in summer weather. Where a large territory had to he covered it would be alto-
gether better for one collector to collect the cream farthest away and meet another at a suitable point than to have the one driver remain on the road all
day to cover the whole territory. The cream should be collected as frequently as possible-not less than at the farm, collected reasonably often, not kept on the road too long and properly protected in transit, it will arrive at the creamery both clean in flavor and oduce really choice but
Many of our creameries are lacking in facilities for properly caring for the cream upon its arrival. We
should like to see all our creameries coolers, so that the cream could be cooled to churning temperature promptly after its arrival at the creamery The creamery whose butter won second place in the cooler and every facility upon its arrival at the creamery. I am beco the cream and more convinced that every creamery should be equipped with both a pasteurizer and a cooler, and that from which is to winter cream and cream the butter teurized and passec he for could but get the cream properly cared for at proper conditions, and collected reasonably often and under teurization and prompt cooling of the cream up by pas hear no more about the "cream-gathered cream" woul and our butter would become Danish butter in quality patrons and mana I would urge upon the creamery portance of attention to the following: 1. Providing facilities at the farm cooling the cream and holding it at a low promptly insulated, well-covered cream reasonably often, in well 3. Avoiding having the cream on the road too long in warm weather.
4. The use
ool the cream upon its at the creamery to promptly nd whesteurization of the cream-especially in winte We would hutter is to be exported. we are in crying need of reform along the lines that
these suggest.

FACTORY CONDITIONS TMPROVING,
Report of J. H. Echlin, Sanitary Inspector for Eastern ies and creameries for Eastary inspector of cheese factoEnished. Nov 30th. The territory allotted to me was
that portion of the it portion of the Province lying between the county In al! 12 counties, and in this territory some Quet fac, ories are located. Of this number, I succeeded in visiting 566 before the close of the cheese season, that in making a second visit to of November being occupled in a special nature was to be performed in onder tork nilly with the recommendations made during order to isit, and in holding meetings with the people to discubse on their particular secMuch of the Cornwall section was visited a second bich the was greatly pleased with the earnest way in eir factories; and the opening 1907 of improving aringe it the appearance of a large number of the fac I aldo hat section.
 and valuable alterations and found that many importain Many encour and the past month from every secticn of my to me during I beg to assure you that scores of of my tactory bulliting and and
be greatly improved between season of 1907 . Many of them give promise of beltify, the
propert
properls manned, in a theroughly sanitary condition and for making an article of human food in, which past. I might say that I was expected to visit the
atrons of factories as well as the factories themselves. For diferent reasons, however, I was unable to take up this festure of the work to any great extent. In the
first place, the extent of territory I nad to cover and the number of factories I had to visit practically pre-
clude. my doing this, and, furthermore, in many include. my doing this, and, furthermore, in many in
stances it seemed useless to ask the patrons to improve stances it seemed useless and ask the patrons to improve in a more sanitary and cleanly condition.
During the earlier part of the season considerable
ixprovement was made on some of the buildings, and in several instances a better water supply was provided, great hindrance to the makers in the way of keeping eir factorios clean.
One of the most frequent evidences of carelessness on
the part of proprietors. patrons and makers was the condition of many of the whey tanks, and I feel that it condition of many of the whey tanks, and I feel that it
is an insult to the women of this country to ask them
t. clean the milk cans after we have filled them with t. Clean the milk cans af
th. Whey from sucin tanks.
the whey from such tanks. cass, of mary factories was such that they could not be
made until the close of the season. For instance the condition of many factories called for the laying of new Pocrs; while that of others necessitated the lining and
paintiug of practically the whole imerior. 13el ween June 1 st and November 30th I inspecte SE, fuctcries. Of this number elghteen might be cnn-
sidered first-class places. having all necessary appliances and well! kept inside and outside; 116 good, sound buildingy twere visited, 92 having really good sites. If found
$2 C^{\prime} 3$ factories supply. ant 63 having splendid drainage. I found the whey tanks at 52 factories cleare and tidy and appar-
ently well 1 kept. Al, ongst all the factories visited by me during the
season, 35 buildithgs were considered to be entirely unfit season, 35 buildings were considered to be entirely unfit
places for the manufacture of cheese, and 78 new floors places for the manufacture of cheese, and 78 new floors
nere asked for; while the interior of 269 makerooms require overbauling by ceiling, lining, painting, etc. I
have $\begin{aligned} & \text { personal knowledge of the water supply at }\end{aligned}{ }^{2}$ have $\begin{aligned} & \text { personal knowledge of the water supply at } 32 \\ & \text { factories having been improved during the soason and of }\end{aligned}$ severai new huildings being erected to replace the ones destroyed by fire during the latter part of the eason,
s, tha: we have every reason to look forward to the s, that we have every reason to look forward to the
orening of 1907 with a great deal of prlde and satis-

## Grant for Spring Horse Show.

## ers' Association, have waited on Hon. Nelson Morteit

 Provincial Minister of Agriculture. On the deputation were Messrs. Wm. Smith, Columbus; J. M. Gardhouse,Weston ; John Bright, Myrtle ; George Pepper, Coronto and John Boag. Ravenshoe. Mr. Smith, as spokesman, stated that the prizes to be offered at the spring the breeding classes for Clydesdales, Shires, Hackneys, Thoroughbreds, Standard-breds and ponies. In order to conduct the show as the association was arranging,
the grant from the Department should be $\$ 2, \ldots 0$. The minister expressed his pleasure at meeting w:th the members of the deputation, and gave the improssion
that the request would be very favorably sons: lered.

## Shorthorn Breeders' Annual Meeting.

 The annual meeting of the Dominion ShorthornBreeders' Association will be held in the Temple BuildBreeders' Association will be held in the Temple Build
Ing. Toronto, at 11 a.m., February 6 th, 1907 . The
directors will meet on February 5 th, at 8 p.m., in the directors will meet on February 5 th, at 8 p.m., in the
King Edward
Hotel.
Complaints having reached this King Edward Hotel. Complaints having reached this
office
regarding the lateness of the above announcement, we publish it in our earliest issue after receiving
the above information, in reply to an enquiry addressed the above information, in
by us to the President.

## GOSSIP

an annual sale of annandale
vast amount
dispose of sto
G. A. Brodie's Clydesdale Sale. Fully 500 farmers attended the auction sale on
January 8th of imported Clydesdale fillies, belonging anuary 8th of imported Clydesdale fillies, belonging
to Mr. G. A. Brodie, at his farm, near Stouffille, Ont. The 40 fillies sold were a very satisfactory offering, the bulk of them of the thick, close-coupled, good qual-
ity kind, with the best of underpinning, and the averity kind, with the best of underpinning, and the aver-
age of $\$ 305$ for the whole lot, ten of which were yearlings and one a spring foal, would appear to be a very satisfactory result. Seven sold for prices ranging from $\$ 400$ to $\$ 450$ each. The sale was well conducted, the
bidding brisk, the auctioneers-Capt. T. E. Robson the bidding brisk, the auctioneers-Capt. T. F. Robson and
N. E. Smith-in good form, the hospitality of Mr. N. E. Smith-in good form, the hospitality of Mr.
Brodie generous, and everyone apparently well pleased with the class of stock offered. ${ }^{\text {Bpollowing is the list }}$ of animals, ages, prices and buyers
Gipsy Maid, 1901; Graham Bros., Claremont....... $\$ 450$
Princess Prim, Princess Prim, '03; Graham Bros.
Lady Pettigrew, '03; John Harcourt Lady Pettigrew, '03; John Harcour
Gipsy Girl, ${ }^{\circ} 03$; Graham Bros. Chastity, '04; W. D. Breckin, Bronte......
Walton Belle, '04; Chas. Coursey, Lucan Walton Belle, '04; Chas. Coursey, Lucan
Blossom, 04 ; Chas. Coursey Castle Lady, ${ }^{\text {Maid Marion, } 04 ; \text { W. Doreland, Cla }}$ Poetess, '02; Chas. Coursey
Home Fancy, 04 : Chas. Coursey Home Fancy, '04; Chas, Coursey
Hartwo............. Hartwood Bess, ${ }^{\text {Q }}$; Jas. Leask,
Queen Bess, '04; Graham Bros.
Lady Mark, 04 ; James Leask
Jeannie Pride, 03 ; J. Boreland
Jeannie Risk, 04 ; R. Holtby, M Jeannie Risk, 04; R. Holtby,
Lady Moir,
Dorcas, '04: E. Meyer, Cashel
Lady Coxhill, '04; Robert Miller
Cousin Royal, '04; Graham Bros.
Pink Pearl, ' 04 ; S. J. Prouse, Inger
Lady Montague
n
Lady Montague, " 5 ; Graham Bros
Lady Renshaw, '05; S. Armstrong, Stouffille...
Bellina,
Clarabel, '03; W. T. Blanchard, Newmarket ...
Vine, '04; Alex. McGregor, Uxbridge
Black Duchess, '04; C. Coursey
Black Duchess, '04; C. Course
Lady Bine, '04; C. Coursey
Lady Bine, '04; C. Cour
Ripple, 04 ; C. Coursey
Leda, 04 ; C. Cursey
Leda, 04 : C. Coursey ...
Lady Letenalt ; P. Holtby
Signorina, '05; John Ph
Crocus, '05; P. Holtby
Maggie Munn, 05 ; C.
out without a bid that the auctioneers would deign t accept, and by consent of those present the contingent were withdrawn. Silson, who had several catalogued and, as the Senator announces his determination t continue the annual auction, a hint at this time may
not be out of place to those who will next year b in need of young Shorthorn: bulls.
The whole story will be found in the appended list
of sales. The eight bulls averaged $\$ 103.13$, and the twenty heifers $\$ 176.50$ :
HeIFERS.
Pine Grove Mildred 11 th ; Robt. Miller, StouffLily of Pine Grove 3rd; Robt. Miller ..................... 180
Pine Grove Clipper 10th; Thos. Johnson, Columbus, Ohio .................................................... 240
Missie of Pine Grove 7th; Robt. Miller............ 300
Pine Grove Mildred 12th; Wm. McGiryy Pert

Maud O' the Mill, '05; D. Gunn \& Son, Beaverton 210
 Miss Arkley, '05; H. D. Cameron, Ingersoll............. 205
Buchley Belle, '05; D. Gunn \& Sonn............................. 210
Lady Orde, ${ }^{2} 06$; D. Gunn \& Son ..............

The Pine Grove Sale of Shor horms.
 ance of breeders from the western portion of the
Province, as well as a crowd of local farmers, who however, did not count as buyers, for in Eastern On-
tario most farmers are in for dairying as As a consequence many fine herd-headers, that would have been snapped up quickly in Western Ontario, went Taking them all 'round, the offerings were pro-
nouncell superior to those at any of the previous Pine Grove sales. As one of the auctioneers aptly
marked in his opening address, Senator Edwards
turning out a better marked in his opening address, Senator Edwards is
turning out a better class of stock each year, which
entitles him to be ranked not meraly entitles him to be ranked, not merely as a breeder,
but as an improver of the breed. The auctioneers were Col. Geo. P. Bellows, of Maryboth of whom wielded the hammer briskly, disposing
of the entire contingent of over 40 head between one Owing to the absence of American buyers, only one animal being sold to go south of the line, prices were
disappointing. especially for bulls.

Pine Grove Mildred

Pine Grove Secret 4th; McDonald Bros., Woodstock 100 | Lovely of Pine Grove 5th; McDonald Bros............ 125 |
| :--- |
| Jealous Girl ; W. D. Cargill, Cargill |
| Zoe of Pine Grove 6th ; Robt. Miller...................... 140 | Zoe of Pine Grove 6th; Robt. Miller............................ 250

Pine Grove Duchess of Gloster 2nd ; A. Summers,

 Lady Lancaster 11th; Peter White, Pembroke........ 300
Pine Grove Clipper 1th; Peter White. .............. 210 Ruby of Pine Grove 9th; W. D. Carwill.............. 170
Pine Grove Duchess of Gloster 3rd : A. Summers.. 170
 Ruby of Pine Grove 10th: Arthur Johnston, Green-
wood
Saucy Girl; F. R. Shore. White Oak Golden Ray bulls
 Royal Marquis ; G. K. Jo. Robson, Ilderton........ 60 Scottish Marquis; F. R. Shore, White Oak.............. 100
Scottish Fashion: A. Summers Scottish Fnshion; A. Summers
Village Pride ; W. R. Surtios. Clarence....................... 155

145 | Lily's Champion; Ron. John Dryden, Brooklin........ 145 |  |
| :--- | :--- |
| Lord Lansdowne ; Michael Cavan, Thurso, Que.... | 55 |

Penitentiary Twine Handicapped.
keting of binder twine at the factory. ." We started in
last year wilh about 350 俍 last year with about 350 tons," states the Warden. "We
soid about 200 tons-less than half our possible output Our twine was as good as any on the market. Our price
was two cents below other twine was two cents below other twine of the same grade.
But our terms shut us out, and our terms will always shut us out. Farmers will not send cash for any
article. they cannot see, and many of them cannot send cash because they have not got it. The get up clube pretitors take advantage of our terms and twine. Comthe quality of our twine. Altogether the outlook is
discouraging. We should be able to run the mill all the year. Give us the retail dealers-give us the market on the tuine we can make if we run our factory night and dav every month of the year. If we cannot have the We are indebted to the secrets cellent agricultural school of the Trapnists exly reference River, Quebec, for the following kindcompanying renewal subscrintion Advocate," achest in America and wish every I consider the would subscribe to." wish every French-Canadian Arrangements are being made whereby 50 .own Brit-
sh navvies will be sent to Canada to engage in railway

HOLSTEINS.
Mr. Geo. Rice, Annandale Stock Farm, Mr. Geo. Rice, Annandale Stock Farm,
Tyllsorburg, Ont., writes:..I am sending
you a change for my advertisement, as I you a change for my advertisement, as
am making a very important change it $\begin{array}{ll}\text { you a change for my advertisement, as I } & \text { Fobruary, } 190 \\ \text { am making a very important change it. } & \text { as soon as I } \\ \text { my policy of selling stock. I am de- } & \text { auctioncers. }\end{array}$ luged with letters from people wanting
Holsteins, and could not supply onct Holsteins, and could not supply one-
hundredth part of those wanting stock. hundredth part of those wanting stock.
The trouble, though, is that orly a small
percentage of etunuiries really mean busipercentage of enquiries really mean busi-
ness, and it is inppossible to tell which
these are. To describe stock to these are. To describe stock to
giving particulars, records, breeding. e becomes a heavy task. Without this
fifformation, purchasers have not sufficient Impormation, purchasers have not sufficient
knowledge as to the breeding of pure
bred cattle to make their selections. A
catalogue becomes a necessity in a large
hend. Wo have come to the conclusion
thet we hor for

The attention of contractors and parties
ontemplating house-building is called to made, high-grade panel doors of readyGordon, Van Tine \& Co., Davenport in the world, to fornish first-class goods at half the regular price, and to supply catalogue will be sent on application. See
the advertisement, the advertisement, and send for the cata-
logue,, mentioning "'The Farmer's AdvoMr. Joshua Lawrence, Oxford Centre,
nt., importer and breeder of Berkshire hogs, writes : ". I wish to say that my
 head of my, herd. He was imported last
July for us; he is a very fine hog, large
bone long and ame bone, long and smooth, stands well up
on his toes, and is well marked." The whole subject of the proper feeding
of horses is one which is not usually aptoo great a tendency or the part of those having charge of the autimals to ignore
the fact that constitutions as well as appetites vary, and the result not in-
frequently is that a horse gets far more than is good for him, for the simple
reason that he eats more than his heighbor, if he gets the chance. If
proper observation were to be made, it would soon be ascertained how much each
artimal requires in the way of food to be
at his best, and if the size of the feeds were to be regulated in proportion, the
health of many a stable would be better. Horses doing hard work, as a rule, re-
quire something like half as much food again as those doing moderate work, and
the pace at which they have to work
should also be taken into consideration: and, if a horse is systematically fed upor,
indimestible foot in large quantities, his TRADE TOPIC An 800-acre farm, only 40 miles from
Winnipeg, and $2 \frac{1}{4}$ miles from a station,
all fenced, 275 acres under cultivation with first-class buildings, stock if cattle,
horses marchery, are advertised in this paper
for sale chap, and on easy terms, by the
Houghton Land Corp,, Ltd., 314 Union QUESTIONS AND ANSWERS 1st.-Questions asked by bona-fide subsoribers
to the Farmers A A vocate" are answered in
this department free this department free.
pandi. Questions should be clearly stated and
paniny written on one side of the paper onn
and must be accompanied by the full name and must be accompanier ory
and adrrese of the writer verinary questions, the symptoms
sprecially must be fully and clearly stated,
est especially must be fuly and clearly stated,
ot ther $h$ mis satisfactory repties cannot ob oiven
hth. When a reply by mail is reawived to th. - When a reply by mail is required to
urgent veterinary or legal encuiries, $\$ 1$ must
be enclosed. Miscellaneous.

> DIVISION COURT JURISDIOTION etter he guarantees satisfaction or refund of money, and the pig is not satisfactory,
and I ship it back at his expense, can
after sending him a postal note, recover Because of his letter guarauteeing satisMig, \$12.
Ontario. CONSTANT READER
Ans.-Apparently, if suit must be Ans.-Apparently, if suit must be
rought in order to the recovery of the money, it ought to be entered in the
court of the division in which the del, to
> heifer failing to breed. nd fails to get in calf. Can anything se done other than continue breeding,
and, if anything, what? She is a good nal, and I want to keep her for stock arroses.
Ans. The only thing we can suggest is
rying different bulls. Sometimes the rying different bulls. Sometimes the
ifficulty is overcome by opening the os neck of the womb with a spiral motion
the oilect finger when the animal is in

## cedar for silo.



What is the best dry substance that is
effective in killing lice on cattle? Would elfective in killing lice on cattle? Would
sulphur dusted in the hair destroy them?
D. H. T. Ans.-We have had no experience with
sulphur for the puryose, but have had complete success with insect powder
(pyrethrum) sifted into the hair with a
flour dredger. A successful Ontario cattle feeder strongly recommends a mixture of dry cement and insect powder applied
in the same way. Probably the cement alone would prove effective, as it would
doubtless stop the breathing of the
vermin. It is well vermin. It is well to clip the hair off
the back and neck of cattle, as less of the
specific will then onw specific will then answer the purpose, and
currying can be done with better eflect. appoplexy in pigs. I have a number of young plgs, ten,
weeks old. Last week, when I fed them, they rushed to the trough, and, after eat. ing a little, one of them gave a squeal,
ran away, tumbled over, after kicking a
little died acted little, died; acted as if ohoked. Since
then three more of them died, but death was not so sudden, they breathed very
hard. What was the cause of death ? Ans.-This is a form of appoplexy, or
rush of blood to brain, and is more rush of blood to brain, and is more
prevalent at this season when pigs are
confined, getting insuffcient exerclse and access to grass and grit. The feed should
be lessened, and given in a thick state, or even dry, so they will eat slowly, rather
that too sloppy, their drink being given in a separate trough. If possible, they
should have more exercise. A little mulshould have more exercise. A little sul-
phur in their food will be helpful, and a
low low box with ashes and charcoal should
lie kept in their pen so they cal take it

What causes the leaves to bo stripped
off gooseberry bushes in July ? If caused fi gooseberry bushes in July ? If caused
by worms, and requiring a poisonous worms, and requiring a poisonous
remedy, is there any danger in using the
fruit afterwards ?
A. B. C. Ans.-The insect which strips the leaves of currant and gooseberry bushes is com-
monly known as the currant worm. This monly known as the currant worm. This
is the larval or caterpillar stage in the
development of a small yellowish fily. The fly emergest of a small yellowish the fly. The
fround early in the
spring, and deposits its eger spring, and deposits its eggs in rows
along the veins on the back of the leaf. It usually begins with the lower leaves of
the bush, and by the time the leaves are half formed, the eggs may often be found
in great numbers. The small caterpillars hatch from these in ten or twelve days,
depending upon the warmth of the weather, and begin at once to feed on the fliage. As they work on the lower
leaves first and gradually worly upward tirrough the bushes, it is not until the foliage at the top of the bushes has been
entirely stripped that their work is noticed most. There are two broods dur-
ing the season, the second one appearing.
in August after the fruit has been picked. Where the bushes have been serioualy de-
foliated, even by the first attack, the foliated, even by the first attack, the
vigor of the plant is so much rexuced that good crops cannot be
expected the following seascn. These
worms may easily be destroyed by worms may easily be destroyed by spray-
wormat the proper time with Paris green
ing at or hellebore. The best remedy is to spray with Paris green at the rate of one
ounce in ten gallons of water. The spray should be applied by means of a
nozzle having an elbow, that the spray may be directed from below into the bush. One thorough spraying, early in the
s/ring, at the time the leaves are well formed, will entirely rid the bushes of this pest, and there is no danger in using
the fruit, the rains washiug it.
a pending case.
neighbor woman came into my heuse A neighbor woman came into my house
at times or her own accord and assisted
in waiting on a sick person. The person n waiting on a sick person. The person
died, and this woman put in a claim for died, and this woman put in a claim for
wages, and she would not state any particular amount. I offered her $\$ 10$, which all she had done. She has now sued me for $\$ 40$ more. Cais I be compelled to
pay it?
Ontario.
Ans.-It would seem from your statement that plaintiff is not entitled to succeed in her action; but her statement of the case might and probably would be
very different from yours, and inasmuch as the matter is now before the court it
would hardly be proper for us to pass
Mammitis in cows.

1. Two of my cows have started giving
stringy milk out of part of the udder,
wirich is a little hard. They ane near
dryingup time: which is a little hard. They and near,
dryingup time; lying on a cement floor;
fed on ensilage ment ?
2. What will stop a dog from killing
hens ? Ans.-1. Treatment for this consists in follow up with 2 drams nitrater salts; three times daily for three or four days, Rub the effected quarter well with cam-
phorated oil after milking, after bathing phorated oil after milking, after bathing
long and often with hot water. We do
not think the cement floo is not think the cement floor is the cause,
as most cow stable now have cement
3. Taking the dog's head of, stoppirig'
his breathing or dosing him his bratathing, or doging him with strych-
nine, are all effective method nine, are all effective methods, though
somewhat sever.. We know of no other
treatment keeping the dog tied beyond reach except keeping the dog tied beyond reach of the
fowl. Will someone who has had ex-

## estate matters.

1. Father was six years younger than
mother. Father's will read as follows "I will and bequeath my estate as fol-
lows: lows: . subject, of course, to my
wiffes lawful rights." That's all. that
was said was sald regarding mother. He died,
and two months, after she died. She said nothing about father's will, and
made no will herself. There are seven children. Can they, as her heirs, claim
anything out of his estate ? If so,
what a Some what a Some of those children had al-
ready got their share, and father I don't think intended they should have any more, he evidently expected her to die first.
2. What are executor's lawful fees?
Outario Ontario. A CONSTANT READER
3. Whatever may be agreed upon be of the estate, or, such as the Surrogate Court judge may, in the absence of such,
an agreement, deem proper to an agreement, deem proper to be allowed.
There is no fixed tarifif of fees or com mission for the remuneration of executors
division of estate.
property tefore he car an hewn it, it he just a pays taxes, and pays no rent under writ 2. The father died, leaving the place ander a mortgage, and also died without deemed the property. All his wire re-
cept one, ax-
and he stayed six years-a single man. Can he collect wages for the same time? T
deem the proper
4. There are five heirs, A, B, C, D, and E. A and B help pay for property,
staying, supporting the mother. Has th property got to, be equally divided be-
tween the five heirs? SUBSCRIBER. New Brunswick.

SUBSCRIBER.
Ans.-1. We do not that, under the
circumstances stated, the heir in quescircumstances stated, the helr in ques-
tion could acquire in the way suggested a
satisfactory title. 2. Not unless.
2. prove that there was an a presition to his favor for the payment of wages. 3. Yes, but subject to such legal claims
as any of the five heirs can eatgel as any of the five heirs can establish, and
in rospect of which they in respect of which they would be en-
titled to a Hen upon the property, and
subject also to the rights of the widow

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\end{aligned}
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$$
\begin{aligned}
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\end{aligned}
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veterinary.

## MARKETS

## Toronto.

Receipts of live stock on Quality of shipping cattle fairly good, bu lew prime well-anished butchers'
ing offered. Trade brisk in all ing offered. Trade brisk in all classes o
live stock, with prices generally firmer. live stock, with prices generally firmer.
Exporters. - Prices ranged from $\$ 4.60$
$\$ 5.20$; but only one load at the latter $\$ 5.20$; but only one load at
price, the bulk selling at $\$ 4.8$
Export bulls at $\$ 3.75$ to $\$ 4.25$.
 Butchers'-Priine picked lots sold
$\$ 4.60$ to
$\$ 4.85 ;$ Ioads of good, $\$ 4.25 \mathrm{t}$ $\$ 4.50$ to medium, $\$ 3.90$ to $\$ 4.15$; common,
$\$ 3.50$ to $\$ 3.75$; cows, $\$ 2.75$ to $\$ 3.75$; $\$ 3.50$ to $\$ 3.75$; cows, $\$ 2.75$ to $\$ 3.75$;
butchers bulls, $\$ 3.25$ to $\$ 3.65$; cauners, Feeders and Stockers.-There is little or nothing doing: all steers suitable for feeders, with a litte flesh on them, being
taken for butchers' purposes Miloh Cows.-The supply of milkers and
Morward springers has beet limited. forward springers has beer limited.
Trade brisk for all of good quality.
Common to medium cows sold $\$ 40$; good cows at $\$ 45$ to $\$ 5$
fow choice sold as high as $\$ 60$. Veal Calves,-A small run of vealers, generally of common to medium quality,
sold at firm prices, ranging from 83 to $\$ 7$ per cwt. met a strong marker. Export ewes sold at $\$ 4.75$ to $\$ 5$ per cwt.; culls and rams
at $\$ 3.50$ to $\$ 4$; lambe for export, $\$ 6.75$; commo
cwnt.
Hogs.-The run of hogs was light;
prices have prices have again advanced, $\$ 6.75$ being
paid for selects, and $\$ 6.50$ for lights and pati. These prices all being on the fed-
fats.
and-watered besis. and-watered basis.
Horses. - There all kinds of heavy horses, especially for draft and delivery purpospec. Interior
horses sell at low prices, there being a horses sell at low prices, there being a
wide difference between the good and the Wher classese as regards prices. Inferior
poorses are not wanted, and are being sold
hor horses are not wanted, and are being sold
at low prices to pedlars. Messrs. Burns $\&$ Sheppard report having hadd an excel-
lent sale. Buyers were on hand from all lent sale. Buyers were on hand from all
over the Province as well as the North-
west, and one dealer from Vancouver who west, and one dealer from Vancouver who
purchased a carload to go to that city Prices ranged as follows: Single roadsters, $\$ 125$ to $\$ 150$; single cobs and
carriage horses, $\$ 125$ to $\$ 160 ;$ matched
pairs, carriage horses, $\$ 250$ to $\$ 4 \mathrm{co}$ : dopairs, carriage horses, $\$ 250$ to $\$ 4 \mathrm{Co}$; de-
livery horses, $\$ 135$ to $\$ 165$; general-purlivery horses, $\$ 135$ to $\$ 165$; general-pu
pose horses, $\$ 140$ to $\$ 185$; draft horses
$\$ 150$ to $\$ 190$.


## eec 99 Stands for Safety and Stability as well as for Sovereign.

The Safety and Stability of The Sovereign Bank are amply proven by these figures:-Over 25 millions of assets accumulated in $41 / 2$ years.
Assets exceed liabilities to the public by over 5 millions.

## The Sovereign Bank of Canada.

Interest paid 4 times a year on Savings Deposits. $\$ 1.00$ opens an account.
78 Branches Throughout Canada.



## Entifalo

Cattle.- Active and strong. Prim
steers, $\$ 5.65$ to $\$ 6 ;$ shipping, $\$ 5$ to $\$ 5.60$; butchers, $\$ 4.50$; shipping, $\$ 5.40$ t
Veals.-Active and 25 c. higher Hogs.-Active and 10 c . to 15 c . higher Yorkers, $\$ 6.90$ to $\$ 6.95 ;$ migs, $\$ 6.95$ to Sheep and Lambs.-Active and steady
lambs lambs, $\$ 5$ to $\$ 8$; yearlings, $\$ 6.60$ to
$\$ 6.85$; wethers, $\$ 5.50$ to $\$ 5.75$; ewes.


## Chicaso.




$$
\begin{aligned}
& \$ 4.50 ; \text { calves } \$ 6 \text { to } \$ 8.50 . \\
& \text { Hogs. - A little lower. Mixed and } \\
& \text { butchers', } \$ 6.20 \text { to } \$ 6.52 \text { good, heavy }
\end{aligned}
$$

$$
\begin{aligned}
& \$ 6.30 ; \text { light, } \$ 6.20 \text { to } \$ 6.47 \mathrm{c} \text {. ; pigs, } \\
& \$ 5.70 \text { to } \$ 6.25 ; \text { bulk of sales, } \$ 6.40 \text { to } \\
& \$ 6.50
\end{aligned}
$$

$$
\begin{aligned}
& \text { Sheep and Lambs. }- \text { Steady; shoep, } \\
& \$ 3.75 \text { to } \$ 5.65 ; \text { lambs, } \$ 4.60 \text { to } \$ 7.75 \text {. }
\end{aligned}
$$

British Cattle Market.

GOSSIP.
A former New York editor on a recont asit headlines that gave him dull, nothing nes saying the right thing and conveyg a wrong impression, possibly like the tation on the outside page-" For in

## Sale dates claimed.

Jan. 23rd-Valentine Ficht, Oriel, Ont
$\qquad$
$\qquad$

Shorthorns, Clydesdale and SHite fillies and leicester
SHEEP at auction.
$\qquad$
$\qquad$ Mepresenting the Notch Sharerthorta cattle, Iry, Magie.
airy, Missie, Indine, Minnie, Miss Rams Village (irrl, and Rosebud strains-
II, in the pink of condition, among them to two years of age, some of which are
high-class show stuff, and several bulls from six months to three years of age, in-
Cluding the stock bull, A rdletheL Royal (imp.), the younger ones being high-class
herd-headers. Also will be sold eight Clyde ond Shire fillies from one to four years registered, all old enough being in foal.
also one Clydesdale and one Shire stalhou, yearlings, Toronto winners ameng
both the fillies and stallions. There will also be sold a anumber of imported and
Canadiall-bred Leicester sheep; the ewees
 on first
Combined
Ceringa combined
offerings
years. Weston is on the G. T. R. and
P. R., nine miles west of Toronto. also connected with Toronto by $\&$ hall-
our stret-car servioe. Catalogues will
osent on anplication. sent on application, and fullog particu-
res of the breading of the cattio and

Cife, 录iterature antifyturatinu.

## Jules Breton.

 laborers. But in certain important
respects, as Anna Seaton Schmidt, a respects,
writer in the Bos
t on n Transcript,
points out. hi
to n Transcript,
points out, his
motive was mark-
edly different from
that of Millet.
ed types, Breton the
ed types, Breton the
selected, individual
model. His was
me sweet melody
the sweet melody
of the rippling
of the rippling
brook that emp-
tied
tied
the $\begin{gathered}\text { itself into } \\ \text { fathomless }\end{gathered}$
ocean of Millet's
divine genius. His
$\underset{\text { divine }}{\text { gentle, }} \underset{\text { genius. His }}{\text { sensitive }}$
gencle, $\begin{gathered}\text { sensitive } \\ \text { nature t urned } \\ \text { from the rough }\end{gathered}$
the
from the rough
and hard and toil-
and hard and toil-
worn peasant. worn peasant. He in refined, delicate
faces, or gentle, faces, or
undulating
gentle,
landundulating land-
scapes. The immense popularity of his peasant pic-
tures is due large-
tures is due large-
ly to this select
$\begin{array}{ll}\text { tion. They } & \text { an } \\ \text { far } r & \text { enough re } \\ \text { moved from } & \text { th } \\ \text { sordid }\end{array}$
sordid life of theil
charm the
workers, and
beautiful and gay
enough to please
the wealthy who
prefer to believe
that the strenuous
work of the wor
is performed
nts make moonlight and the peas-
land. There are few who would not
urn with a sigh from The Man with
he Hoe to gaze with joy on The
hong of the Larly.
"Jules Breton was a writer as
ell as a paintor, and we are fortu-
ate in possessing, in his autobiog-

ture was bought at the Morgan sale in New York, in 1886 , for $\$ 45,500$.)
hat the harvesters blithely women, light enter, and it is in vain that was exhibited in the Salon of 1851


The Communicants ght enter, and it is in vain that was exhibited in the Salon of 1851, of this darks face, strongly dey definy
be the censed me under a branch of box, seems to was skied.' At the same exhibitiont, against the golden strongly defing plead for pity.' appeared 'The Sower.' Millet's firs which ran lilaciden grain, among " Against the advice of his friends, effort in the rural genre, which was and after exhausting effort, Breton also hung so high that it was scarce-
succeeded in transferring his concep- ly noticed by succeeded in transferring his concep- ly noticed by the general public.
tion to canvas. He called the paint- ", It was not until after he ing 'Want and Despair,' and, with abandowas not until after he had ing 'Want and Despair,' and, with abandoned the feverish life of Paris,
many misgivings, submitted it for and returned to his birthplace at
exhibition. Then followed one of Courrieres, that Breton began to
' find himself.' Of quiet months in the country, during which he seems
to have experienced a kind of spiritual awakening, he writes : ". ' Often I would rise before the rays of dawn had wakened the dark and sleeping fields. The streets were
silent. Here and there, however, some house would show signs of life; a young woman would open the window, her eyes heavy with sleep, her
hair in disorder, half-dressed-delighthair in disorder, half-dressed-delighton was a child crying, or an old woman scolding. And I would walk far into the fields, where the manure heaps smoked beside the herbage wet
with dew. The bending wheat sprinkled me with dew as I walked along the parrow footpath. Among the mists the willows dropped their tears,
while their gray tops caught the while their gray tops caught the
light overhead. Then I re-entered the village, now all bright and awake, where rose, at times, with
the blue wreaths of smoke from the the blue wreaths of smoke from the
chimneys, the sweet, monotonous
songs of the young morider songs of the young embroiderers. I I
returned to the fields to returned to the fields to look at the
gleaners. gleaners. There yonder, define
against the sky, was the busv flock overtopped by the guard. I watched them as they worked, now running in joyous bands carrying sheaves of ow bending over the
stubble, c 10 se el y stubble, clo.sely
crowded together.
 among them they stopped their work
to look at me, smiling a a d me, fused, in the grace
ful freedom of their ul freedom of their sorted garments. Ah! I no longer regretted either
Clamart or Meudon, and I I Meud the simple beauty of my native place, that offered Ruth offered herself to Boaz.
environmis simple conceived were conceived and car-
ried out most of the pictures that were to bring him iame. 'One day,' he says, 'I made
a little pose for me, standing on a flowery bank beside a field of wheat. Her bent
face was in shadow while the sunlight fell on her cap and her shoulders.' her ' I As I painted her I felt a secret press the feeling of thich ran lilac, morning griories, by the warm glow of the earth, the violet and the shrubs. All this enchanter me. ., I had already sent my " sies " to the Exhibition at Brussels when one day my brother Louis, in the cornor where it had Gleaner

## THE FARMER'S ADVOCATE.

gotten, said to me, "/ Why do you
not send this, too, to the Exhibition ?"" ". That?." I replied. ". It had no frame. My brother pe
sisted, and in the end discovered sisted, and in the end discovered in
the barn an old, tarnished frame that had once inclosed a poor por-
trait. It was near the expiration trait. It was near the expiration
of the time of grace allowed in sendof the time of grace allowed in send-
ing pictures.
I sent it off at once. What was my astonishment when, a
few days afterward arriving in few days afterward, arriving,
Brussels, I found my " Gypsies Brussels, I found my "Gypsies"
badly hung and my ". Little Gleanbadly hung and my " Little Glean-
er on the line in the center of a panel,
tention.

The success of the ' Little Glean er encouraged Breton to choose the
same subject for a larger composi tion. TThe Gleaners , was exhibited at the International Exhibition in
Paris in 1855, and established the painter's reputation. He was greatwas afterward told that he had been Gleaners, of Millet were not painte until 18rs7. the years that followed picture, devoting. himself almost enpicture, devoting himself almost en jects. Troyon, Corot and Gerome
were among his friends and guides were among his friends and guides
As he grew older, the mystic in him
seemed to seemed to become more pronounced. him even as a boy, and he had stood wilently while they passed through th
winding streets of his village: 'First
came Monsieur came Monsieur le Cure, then all the notables of our village. I knew
them well, yet their faces seemed
different different, as if surrounded by a mys-
tic aureole. They had lost every trace of vulgarity, and seemed t move in a divine atmosphere. The
walked gravely with bent heads, carrying reverently their larg torches.' Jules Breton is said to
have been always dteply moved by have been always dteply moved
the simple faith of the peasants, an he had little patience with the ir reverence and materialism he en
countered in Paris. And so it seem. countered in Paris. And so it seem
as though he had put his very soul into the portrayal put his very sol ligious, subjects as • Blessing
Wheat, and 'The First Co Wheat,' and 'The First Communion. This last-named picture brought the Morgan sale in New York in 1886

## Current Events.

The Shah of Persia died at Teher

Russia will shortly undertake the
eorganization of her navy.
The bandit Raisuli has been de eated in an almost bloodless ba

About 23 acres of Kerr Lake, on of the richest prospects in the Cobalt 9 th for $\$ 178,500$.

The United States Steel Co. wil build next summer, at Sandwich
Ont., an extensive steel and comprising over 1,000 acres has been bought for the erection work.

Professor Rutherford, of Mctill University, Montreal, has been af, Pogriress of logal ortion Director of Physical Laboratories it municipal elections in the Province Rutherford is only thirty-six years age, but his researches in radum and radio
tamped him as the the

Amerioan millionaires have vied with one another to possess Breton's can-
vasses, and some twenty-five of his most representative works are now
in the United States in the United States marked, was ever more generous than Jules Breton in praise of his
brother-painters. brother-painters. 'I never cross
the threshold of our museum (the
Louvre), he the threshold of our museum (the
Louvre),' he once declared, without,
experiencing a reverential' To Leonardo a reverential emotion.' To Leonardo da Vinci's head of tribute: 'I do not think following ever produced anything more touch-
ing. No artist has ever joined more profound feeling with joined
mereater correctness of design. It is ideal
sweetness expressed with ideal force sweetness expressed with ideal force.
I love this Leonardo with all the fer-
vor of an artist's soul. vor of an artist's soul.' As for Rembrandt's 'Pilgrims of Emmaus,'
it was the goal of his pious pilgrimages whenever he could make them, and he was never weary of contem-
plating it. Corot also conspelled his whole-hearted admiration: hymn of serene purity. where is a thing lives, rejoices, loves and palp1
tates! We say the divine Mozart We may also say the divine Corot Genius made of dawn and springtime Eternal sunshine that age has no been able to chill ! Paris may we,
be proud to have given him birth.' ". Even more significant, in view o his own artistic kinship with Mil
let, is the following utterance: let, is the following utterance: by Millet touch us peings depicted
cause he loved them proundly, be cause he loved them profoundly and
because he has raised them to because he has raised them to the
higher regions inhabited by his genius. He attains character and sentiment even with ugliness. He
has gradually added to his pictures has gradually added to his pictures
an element wanting in them in the
beginning - depth With a plow standing in a rugged field where a few slender thistles are
growing, two or three tones and an growing, two or three tones and an can stir the depths of the soul and interpret the infinite. A solitary, at
times a sublime genius, he has mad times a sublime genius, he has made
a sheepfold lighted by the rays of the rising moon, mysterious as the eterhal problem she presents, a little pic-
ture life-like and pure as a work ture life-like and pure as a work of
Phidias, unfathomable as a Rem brandt.

Zealand, and received his earlier tdu-
cation at the university in that A scheme for shortening the voyge between Britain and canada the coming session of the British Parliament. The proposal is to establish a packet station, with rail-
ways and ferry steamers, to carry mays and ferry steamers, to carry
mand, at plackengers across to Ire-
Blad Bay, Mayo, the land, at Blacksod Bay, Mayo, the Canada. Ships could then go on
their way without stopping at any
other point in Ireland.

## Premier Stolypin and several Con- servative members of the Russian

 servative members of the RussianCabinet have received letters of
warning from the Terrorister The islands
rence, are agitating for of Separation United Ftates. They say with the oing taxed by the mother country of of ali proportion to the resources of the islands, and claim that to the Inited States, which has advocated
their rights better than Fngland,
their allegiance is due

## Power: Individual.

$\qquad$ passed by units, and not by aggre gates of men By individuals, an not by companies, are great thought Thoughts that
Thoughts that have vital power shape , initiative - thoughts tha shape themse!ves into action, create dynasties, set laws, leave their im press upon the face of time-such thoughts were those of Alexander th Great, Hannibal, Napoleon Bona parte, and other world-conquerors.
Not " multitude of counsel ", Not " multitude of counsel," but in-
dividual conception, creation, execudividual conception, creation, execu-
tion. The powerful intellect and magnetism of such men attract, fascinate, command aggregates of ordi-
nary minds.
The latter are the nary minds. The latter are the
means, agents or instruments of means, agents or instruments of
achievement.
Conception and plan are moulded in a superior mind. Or ganizing, directing and controlling
power reside in the individual. Gower reside in the individual.
Go back to the dawn of history.
he find Moses-cominander We find Moses-cominander, teacher, lawgiver. We next find Joshua-
governor, leader; a figure conspicugovernor, leader; a figure conspicu-
ous, colossal, not to be measured by ordinary standards. Then David, a central character in history and song. Solomon, a teacher of wisdom. The
Prophets, from whom we have not Prophets, from whom we have not
only inspired records, but also the world's best philosophy and poetry.
Jesus Christ, the Man-divine the Jesus Christ, the Man-divine, the Soul's eternal hope. Paul, and the
other Apostles, standing forth as world-teachers.
Turning to the heathen world, we note such teachers as Mahomet, Con prehensive and foroaster-men of com-
force thoughts have for many centuries shaped the moral and religious life
of millions in the Orient. In the Western world, who shall estimate the vast influence of one
man, Martin Luther, whose thought man, Martin Luther, whose thought
and fiery zeal changed the religion of continents?
In the field of discovery, it was who conceived, planned and consum-
mated the voyages of Columbus. it was Columbus himself. Solumbus; it de Gama, Magellan, and other distinguished navigators and explorers
within its bounds, as is usually done In many municipalities local option seven instances by-laws were submitted for repeal, but in all seven
the by-laws were defeated, thus sustaining local option. Probably the most significant of these was in Towas made for repeal, but the pro-
hibitory regulation, after the trial, was sustained by a majority of 333. Three years before the ma-
jority in its favor was 190 . Throughcarried in at least 41 municipalities and defeated in over 50 , but some 38 of these gave majorities for local
option, though not reaching the 60 per cent. imposed at the last thession
of the Local Legislature

When the Birds Come North Again.
the undertaking, but one man is $t$ prime mover and the esprit de cor
Of this type, also, are the great ventors, among whom may be nam Guttenberg, Morse, Edison and Ma In sciences and arts we
icus, Sir Isaac Newton Galileo, discovering laws among stellar worlds. These men placed astronomy on a truly scientific basi ared names in medicine and surger Dr. Lorenz. In physiology, Harve Carpenter and Owen. Important vance in manufactures accrues fro Faraday. Travel is facilitated ani commerce advanced incalculably the locomotive of Watt and Stephen
son, and the steamboats of Bell ard Fulton. In agriculture,
tions of the few have immeasurably lightened the labor of the many. In son and Dana, have unfolded to us a knowledge of the rocks and strata of the earth, while Linneus and Buf and in its seas sified life on its surfac of philosophe
classed as taking high a fank can be among the ancients were Socrates ophy of Mind," and Aristotle, who pursued chiefly the sciences of nature Their works are still read and de bated by thinking men. Bacon, stand out conspicuously among the moderns. Bishop Butter, in his " Analogy," has given to the world reasoning, which shows that all ob jections against religion are equally valid against universal truths. thenes shine resplendent and iemos tive greatness.
Great minds are beacon-lights, or
as Carlyle would say, " fire-pillars in this dark pilgrimage of mankind " At widely-separated points of time dowed with orator or a writer endowed with unusual vigor of intellect
and vividness of imagination, dis-
closes realms unseen before, or dim.y seen by the mental ey Great poets erect images of higher
and better things, and these and better things, and these reflect ent, glimpsses of an aqts of more tivine
yet to come, when righteousness añd yet to come, when righteousness and
knowledge shall " cover the earth."
Kent

## Two Women.

## One sanctified her homely household labor

grace ; ove set his seal upon her fort face peace and joy illum'ed her placid Her presence seemed to those for whom With blessing and with benediction
fraught.
$\qquad$ pining.
Sullen of visage, cheerless, heavy-eyed.
Missing the joy of love's unseltish cried : of this ceaseless toil," she
$\qquad$
$\qquad$

And every year hath its rain-
But a day is allays coming
When the linds col
North again. And grass springs green on the plain

$\qquad$

dark pilgrimage of mankind."
$\qquad$ knowledge shall " cover the earth."
Kent Co. Ont.

## One caught the morning sunlight on the mountain,

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



Elimateth naraty, in Gooad hoveskeer.

The Quiet Hour.
God's Thoughtfulness.


With the Flowers.
Feverfew as a House Plant.


cutting the flowers only serves to make
the plant bloom more freely, it may be
depended upon for keeping the table sup-

|  | Impatiens Sultani. <br> Another valuable winter plant is the Impatiens Sultani, of ten known by the name, evidently a contraction or cor ruption of the right one, " Patience." any sign of patience, the plant has been well nicknamed, for if it receives no setback it will throw out all winter long a profusion of blossoms. These are cerise in color, and are suspended like tiny salvers at the extremities of the numerous semi-transparent branches <br> Impatiens Sultani require a light, open soil, plenty of room, in order that it may develop symmetrically, and plenty of water at the roots, with a daily washand of the foliage to keep off the dust tender, hence should not be exposed to much cold; neither does it care for much sunshine, hence it should be kept near eastern or northern window. It may good plan is to keep a number of |
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## The Heliotrope

| ared blossoms and strong sweet per- |
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mand. The present diffculties and
tronbles are quite heavy enough, IIe has tronbles are quite heavy enough, He has
declared-quite sufficient for our strength to-day. It is entirely against His will that we ge suture.
troubles of the futa
The present is God's gift to us, and a rich gift it is. Perhaps He has laid difficulty in the path. Or He may slip into your present moment the opportunity of ministering to Him. Perhaps it may be only to pick up
a child and kiss its laughing lipt, or to a child and kiss its laiughing lips, or to
give a bright word to an old grandgive a bright wond to an old grand-
mother, or the thought comes to write mother, or the thought comes to write
a line to cheer a sick or lonely friend.
Small things these, but God thas, in Small things these, but God has, in thoughtful love, placed along your path
opportunities for doing countless little opportunities for doing countless ittie
kindnesses. If you spend each day in ministering to Him, if you look for the
image of the Christ in every man, wo image of the Christ in every man, wo
man and child you meet, aud spring eagerly to welcome Him everywhere, your
life will blossom out amd grow more and more beautiful. Then you will preach
daily sermons which go straight to the daily sermons which go straight to the
heart, and all who know you will try to become more like the Christ they see in you. Goodness is very contagious. We always make some attempt to grow bet-
ter when we see real goodness in anyone ${ }_{\text {We want the to }}^{\text {else }}$ to bood and happy, and God wants us to be good and happythe two things go hand-in-hand. He who cares for each sparrow is far more watoh-
ful over us, His dear ohildren. As the Israelites were guided by the fiery pillar,
so IIe directs us if we go obediently where so He directs us if we go obediently, where
He points the way. As they were He points the way. As they were given
bread from heaven and water out of the finty rock, when the crdinary supplies failed, so we can find strength and refreshment in the most monotonous daily duties by
continual communion with ur unseon continual communion witn our unseon
Friend and obedienpe to His orders." We too must gather ' our supply of manna
fresh every morning, we too must come to he Rock for cleansing and fresh springs life and vigor. The touch of His security and sweetness into our daily

In that stronghold salvation is Its touch is comfort in distress,
Cure for all sickness, balm for And energy for heart and will. Securely hela, unfaltering,
The soul can walk at ease, and sing, The soul can walk at ease, and sing,
and fearless tread each unknown strand
Leand Leaving each large thing, and each less
Lord, in Thy Hand !"

Wish to thank the subscriber who
sent fifty cents for the little Italian Katherine Fasanello. I did not give her the money, but spent it for her-buying
some
much - needed
underclothing. I some much - needed underclothing. I
could not tell her the name of the donor
as I did not know it myself, but said it as I did not know it myself, but saidd it
was from a friend of hers in Canade was from a friend of hers in Canada. I
am sorry the kindly giver could not have am sorry the kindly giver could not have
been there to enjoy her delighted reopp-
tion of the

## Hope.

water to the roots at frequent intervals
will be found very beneficial.
Steel Armored Hotel.
San Francisco will' soon have one of
he most unique buildings in the world ; it is a hotel, and on account of its extremely slender shape has been christened the "Toothpick." The steel framework had been nearly completed at the time of the fire, and the original plan was to encase it in stone and brick. Now the skeleton, which was uninjured, will be
finished, but instead of outer walls of stone, great plates of boiler iron will be riveted on in the same manner as the armor of a battleship. The building quake proof $\$ 750,000$, and be fire and earthThis eonstruc
'Frisco architects, and already another building has been decided on to follow the same lines. The steel plates. will not only greatly strengthen the struc-
ture, but cannot shake from the skeleton; and will present a smooth face, which can be painted any color, and is expected to
present an extremely pleasing appear-


Macdonald Institute
The Ingle Nook.
A Visit to the ,Macdonala

## Dear Institute.

Dear Chaterers, - I suppose a great
many of you when at Guelph on farm-
ers' excursions or w.
 have strolled through Macdonald Insti-
tute and Hall, admiring the spacious rooms, harmonious furnishings and excellent equipment of thess institutions; but
I venture to say that (if you will tolI venture to say that (if you will tol-
erate bit of slang in your staid Dame
Durden) Durden 1 got "one ahead of" the
most of you in being privileged to stay in the Hall for a couple of days. Lest
you accuse me, however, of pluming my you accuse mo, however, of pluming my-
self, I must explain that it was by no self. I must explain that it was by no
means because of any native sweetness or
charm, nor yet by force of the stern charm, nor yet by foreo of the stern
look and ." violent plaid skirt," that look and "violent praid skirt," that
managed to get behind the ramparts for so long. oh, no-nor for any reason
under the sun save that 1 belonged to the "F. A." Visitors are strictly taboood at Macdonald Hall, at "The Farmer's Advocate," so closely in touch
with the agricultural work of the col with the agricultural work of the col-
lege, and the agricultural interests of
the country at large, proved the goiden key. Now, you see I'm telling you this
so you'll "o you "ll not all be thinking you can
"put up Macconald Hall next time
 visit to the Macdonald Institute was as able it that the equipment was so perfect. or so complete. for teaching and studying It was very close upon six o'clock in
the evening when our train drew up at Guelph. A Macdonald girl-for by good Iuck wnew one on them-met me, and
soon we were making our way up the crowded to distraction, with people e fur, ging and swaying at the straps, ver
muna a 1 Cuen City mode. Have yo
matraps. in victorid. Halifax? We haven't in Londont, or Alighting opposite Maodonald Hall, which lies across the campus from the
o. A. C. . we made our way through a
and rainy mist, such as might have delighted
the heart of a Bell-Smith, towards the brilliantly-lighted entrance. Someoni
has observed that the chief interest any building is centered chief in terest
and that, consequently
should be
should be exercised to make the do
and its casement as chaste (whatever
and that may mean in architecture) and beal
titul as possible. The idea is certainl ing the doorway is the prospective point
for which you "head." It is the point by which you must gain admittance, and
stands, as it were, for the hand of the building waiting to welcome you. Not
without reason, then, is it argued that the door and dcorway should be in all respects attractive; and certainly the de-
signer of Macdonald Hall has not overlooked this. fact. The entrance is in
perfect keeping with the attractive exterior of the building, and the large hall (A11. 'No. 2) which extends before the visitor as he crosses the threshold, by no
means belies the promiso of the extorior means beiter the promise of the exterior
The pro-eminent impression which this
ind

## Macdonald Hall

and airiness. There is no clutter of fur- there ?' I asked the housekeeper. "Oh,' being, in fact, quite devoid corridors she replied, with the most unconcerned ings, save for a few palms, and the somewhere." This housekeeper, by the
"cozy somewhere." This housekeeper, by the
way, is a graduate of the institution, a way, is a graduate of the institution, a
living testimony to the efficiency of its "Pring testimony to the efficiency of it
Prossional Housekeeper " course. So far I bave told you nothing of the
teaching. Well, so far I had learned nothing of it. That was to come after nothing of it. That was to come after
tea in the big dining-room, where about a hundred happy-looking girls-of all ages, I should say, from eighteen to
forty-with their instructors, ssememble forty-with their instructors, assembled,
and after a pillow-fight in the hall at and after a pillow-fight in the hall at
10 p.m., and a sound sleep in one of the comfortable a sound sleep in one of the
codroms. As we walked next morning from the Hall to
the "Institute," in which the classes the "Institute," in which the classes
assemble, this was all explained assemble, this was all explained. There
are several courses, any one of which may be taken. (1) The professional housekeepers' course ; (2) the short
course of three months ${ }^{(1)}$ F F W's., course of three months ("F. F. W's.,"' take it) ; (3) the nature-study course (4) the domestic science teachers' course, which takes two years to complete; and
(5) the "Two in One," or two and course in one year, which is taken by teachers whe yave already had Normal training as public school teachers.
In connection with these courses In connection with these courses all
sorts of useful things are taught, home


Entrance Hall, Macdonald Hall
 sweet will. Neverthelcss, so simple and millinery. dressmaking, watercolor work,
effective is the gencral effect of the fur- wood corving, beaten coppor works superintendent rernarked to me, it would if one chooseses, to wake ologies enough, be almost impossible for uny girl who gray. in the cooking classes each turn spent three months there to go home and is provided with an individual gach gtove
litter up a house with a lot of iuartistic
and all the. necessary utensils. and purposeless fancywork. ${ }^{2}$.
 hoilers for making pordge, boiling pud- as crok, and all the rest wrote criti Nings, etc.; the laundry with its quick cisms Her subject was "Using Up Criti-
"driers," were all thmyg of interest
Overs." and the truit cellar, with its aealers, and overs," and from some cold porridge,
course, a couple of eggs, some flour, el
the demonstrator deftly fashioned so muffins with the very right sort of "nose" on, a salad, and a meat souflle. And all the time she looked as clear and
dainty as a short-sleeved blue cotton gown, white apron, cap, collar and cunfs could make her. In fact, it would hard to devise a more trim or attractive looking kitchen dress than that adopted
by the "Macdonald" girls, or one in by the Macdonald girls, or one in
which the dainty misses themselves could look prettier. Just here I must tell you a tale out of school. Before we left the building someone ("a mere man") in tele-
phoning was given Macdonald Hall inphoning was given Macdonald Hall
stead of Macdouald's store down tow "This is Macdonald Hall," explained the blue-gowned "Dem." miss who answered
the 'phone. "I don't think we have
 know about that, was the reply, "Yo That mere man evidently knew what ho
was talking about. was talking abou
seriously, the two days' visit convinced Institute is doing a great work, not only for the girls who attend it, but for
Canada itself. Canada itself. $\begin{aligned} & \text { Each of these girls, } \\ & \text { passing out to } \\ & \text { different }\end{aligned}$ parts of the country, among less scientifically-instruct ed people, must become a little center from which all sorts of information of the greatest importance to the health
and comfort of the nation must radiate. The course is above all it does practical, yet at the same time anything that out the westhetics, or momanhood. Music, it is and elevate taught, notwithstanding the fact that yet music six pianos in the institution where nowadays. On the other anyvery course in English literature follows sities, closely those given in the univer
Again, as in the O. A. C., the cos worth something. Last term there were representatives from England, Halifax
nd Regina in the Hall They expected from almost They may be each must bring with her a little fund
of influence, which must tend intellectually and sympathetically, those Last of all, the Macdonald Institute must act strongly in breaking down the
barrier between the country an barrier between the country and the
town. Too long the town has held that proudly as the be-all and end-all of
makes life worth living. has too often considered itself :" The
rale," outside of which existed Pale," outside of which existed-well, just
the natives. At Macdonald Hall, in city girls-for there are many of them in
residence-lene residence-learn that the country-folk are
not all mossgrown, hor the concerns of
farming cheer, as the "Macdonald". Girls who can
fall, wildly, enthusiastid last fall, wildly, enthusiastically, over the
victory gained hy the O. A. C. boys at
the stock-judging competition in Chicago.
must learn that as much intereat-and udging care science-is as in junnected with
dry-goods store and dry-goods store: and it may dawn upon
them that similarly some amount of in-
terest and skill may be mosible handling of crops and pardense and all
the other necessities of the farm life.
The city girls of the big school may in
is true, bo able girls something, be the touch the country country
girls may
also, if they will, teach the ming Gomething. Going back to city girls
which they must fill in the world spheres must do something towards breaking
down a barrier which never should hat intercourse of the Dominion on a more rational and sympathetic basis.
DAME DURDEN.
An Answer from Lankshira Lese Dear Dame Durden,-Well, here I come
again, and it's a Happy New Yoar IIl wish you all, and many of them. How How I'l
did you enioy the Chry ond did you enjoy the Christmas time? Was
it not delightful to have such bealt weather, and the nice sleighing beautiful wa could and enjoy a nice drive? I and also to the for the mild weather. remembered me so kindly in so who Whys, Not a few of them seemed to be

JANGARY 17, 1907
and many loving friends came, so you see
I had a bountiful lot of cheer when 1 had a bountiiul lot of cheer when at
homee. Was it not kind and thoughtful
of all ? Indeed Indeed, I appreciate it very
much. Although I wasn't able to go
feasting or join in the jolly time away, feasting or join in the jolly time away,
yet there is comfort in knowing I can have Jesus at home, and He does tarry
with me as I abide here, and hitherto with me as I abide here, and hitherts
hath He helped me, and the way is so delightful in the service of the Lord.
Now. I hadn't intended writing so soon, but I see many are asking for that syrup
tecipe. Here it is, and don't you laugh. recipe. Here it is, and don't you laugh.
Just try it first. No one would ever
guess how it is made. Some declare it guess how it is made. Some declare it
is made out of maple, chips, for it certainly is splendid if you get it right.
Well, just you get enough little potatoes to fill a pot or kettle, and with a little
brush scrub each one well and 2) several waters, then put in boiling water. dave enough water to cover them, and
do not let them boil till they break up, then pour of the potato water into a
deep crock and let settle deep crock and let settle and strain it;
then add enough light-yellow sugar to then add enough light-yellow sugar to
boil into a thick syrup. I'll be wondering if any of you try it, and how you
like it. It is so easily made, but never use granulated sugar; that will not do
at all. Do not peel the potatoes before at all. Do not peel the potatoes before
boiling, or cut them at all.
To make good grape pie, line your pie plate with nice pie pastry, then cut up in thin slices some nice cooking apples.
Put a layer in the plate, then a layer of blue grapes, and sugar well. A Bake
with under and upper crust. The apples impart a lovely flavor, and are much nicer than grapes alone.
Please can nyone tell me how to make frosting adhere well to a fruit cake as it seems to drop off it so soon ?
I thank all of you for your kindness, also Ruby for those nice papers, and so many of them.
Now, dear Chatterers, don't you think
we all should move a vote of thanks to Dame Durden, for doing so much to help and cheer us along? I'm sure she has
been real patient with all of us, and gave us so many nice chats. I enjoyed the
closing discussion of last week, Miss D. I must thank you also for the beautiful Christmas number. Now I'm tired, so
must close, and send this with our submust close, and send this with our sub
scription, as my son is sending for it
another year, and another new subscrip tion with his own. We don't want to be without so good a paper as " The
Farmer's Advocate." Wishing you many
new subscribers and a glad New Year. Your friend and shut-in,
A LANKSHIRE LASS, Wellington Co.
We are indeed glad to hear from Lank She are indeed glad to hear from Lank
shire Lass again, and I am sure we all
oin in wishing her better health for the Join in wishing her better health for the
New Year. Her recipes are much appreNow for her question: In order that
rosting may stick it must not be too frosting may stick it must not be to
stiff and it should be put on when the
cake is cold. The following frosting
 powdered sugar, teaspoon vanilla,
Beat the egg just enough to thin it, not
to froth it at all; add the sugar and stir until smooth and light; add flavoring and spread on cake.
(2) Without eggs: 4 tablespoons pow-
dered sugar, a small tablespoon milk. dered sugar, a small tablespoon milk
Stir well, adding a little more sugar if
the icing is not stif enough elr the icing is not stiff enough. Flavor
with vanilla. lemon or almond extract.
For chocolate icing add maye chore For chocolate icing add an square choco-
late grated in a cup and melted over

Some Recipes from " Peaches My dear Dame Durden,- - I have been
following with pleasure the Chatterers of the Ingle Nook, and would like to someone else if permitted. The follow-
ing are some recipes, which shall be of ing are some recipes, which shall be of
use to any housekeeper: use to any housekeeper :
woon butter, soft, white sugar; 1 table spoon butter, eof, not melted; $\ddagger$ cup
new milk; $\ddagger$ teaspoon soda; 2 teaspoons cream tartar; 3 or 4 drops oil of lemon;
1 egg; flour enough to make the dough t will drop, as for sponge drops Icing. - 1 cup pulverized sugar; ing tenspoons breakfast cocoa. Mix with a little milk until consistency of thick
cromam
spread on top of cake. While the

THE FARMER'S ADVOCATE
thought would go a great way to keep
ing the daughters contented on the farm. Let the farmer give his daughter a colt or calf, or even a pig or a couple of
sheep ; if he is a fruit-grower, let him give her a few fruit trees, something she cas call her own and see growing into money. It is a very nice feeling to have
your own purse. There are so many ways for a boy to make a little pocket money, but I do not think the farmer's daughter has quite a fair chance. If the girls are wise they will see to it that the poultry do not slip into the hands of the men. Now that prices for poultry and eggs have gone up, you hear the men talking pouitry, but now is the time for the girls to show that they can manage the poultry-yard. Incubators have cer-
tainly done away with a great deal of the most disagreeable part of poultry-
raising. Do not think because you have on incubator you must run off five or six
hatches in one season. That is just the hatches in one season. That is just the
time you will find you have got yourself into a sad mix-up. Be satisfied with of them, and you will have both pleasure and profit; whereas if you go in for five or six hatches you will probably lose gusted with the whole business, unless you have proper equipments for a large poultry business. An old Irish neighbor used to say to me, " A woman with
young children cannot young enice to herself.," give her remark the rich Irish brogue she said it with. I found there was a great deal of truth in what she said, but now find my poultry a pleasant pastime.
I wonder if any of the members of the Ingle Nook are interested in wood carving ? 1 know one farmer's wife and
three daughters of the farm who do chip carving beautifully. This Christmas saw so many pretty things mede by girl who can carve. It is a very interesting way of spending the long winter mental things can be made for the ornamental things can be made for the home.
R. M.'s Brown-flour Hot Cakes. -8 cups brown flour, 1 cup white flour, 2 table spoonfuls of lard or butter, 1 saltappoon of salt, 2 teaspoonfuls cream tartar (rub
all these ingredients together), al these ingredients together), 1 tea-
spooonful soda dissolved in 3 cups of milk. Mix into a batter not very stiff drop into a pan in spoonfuls, and bake in rather a quick oven. They can be
rolled out by adding a little more flour. bolled out by adding a little more flour,
I prefer them dropped. If
liked but I prefer them dropped. If liked

sweet, add 1 tablesponnful of white sugar | WRINKLES. |
| :--- |
| White sugar | Never be afraid of wearing out your

welcome. Wrinkles.
D. D.

## About the House.

Cooking the Poorer Cuts of Meat.
Winter is the to require cooling foods, but in winter the carbo hydrates and fats, the heat producers so bountifully found in meats, are called for Yet no kind of food, perhaps, is spoiled especially the less choice cuts. You have, perhaps, sat down occasionally to table at which boiled beef was served-
tasteless,
colorless, mass. If uninitiated into the mysteries of cooking you have probably laid the blame upon the quality of the meat itself.
You have thought it "cheap "" per have thought it "cheap ": or explained that she hedn't had a good piece from the butcher for a loug time Now the probabilities were that neither
the quality of the meat nor the honesty the quality of the meat nor the honest necessary to have expensive cuts in order to have fairly good meat. Even a comparatively cheap one may be made into
appetizing dishes if properly cooked, while the most expensive may be completely ruined by wrong treatment.
few weeks ago, there appeared in The Farmer's Advocate" (Dec. 6th is sue) an illustration showing the cuts of a
beef animal, and attention was called to the fact that the upper cuts, those nearest the backbone, are. in all oases the most tender, the lower ones-the leg. round, flank, navel, brisket, etc.- thoe
taken from the parts of the animai called into action as it walks, being of necossity of hander, coarser fibre or muacle. It is cook all kinds of meat, yet as very to poople all kinds of meat, yet as very lew
perd to eat only the cholcest cuts all the year round, it is doubly necessary to know how to prepare these spoiled than the better cuts, mete easily nourishing, and, if properly prepared,
very nearly as appetizing. To the cook-
ing of these, then, we shall ing of these, then, we shall confine to In begir
In beginning, it may be necessary to the different portions may be used: 1. For corning, use the plate, navel,
brisket, rump and bottom brisket, rump and bottom round.
2. For pat-roust face cut of the rump, and cross-ribs round the shoulder.
8. For
3. For stews-any part of the meat.
except, of course, the choice cuts except, of course, the choice cuts.
4. For Hamburg steaks of the round, or any scrapm of meat 5. For boiling-the flank. 6. Fur soups-tail, leg bones, etc.
It may also be worth mentioning be worth mentioning that a meat-grinder, or, in default of that, a
wooden bowl and sharp chopping knife, is

invaluable in making many otherwise un
appetizing portions appetizing portions of the meat into very
acceptable dishes for the table. 1. Boiling.-In boiling fresh mea ways remember that it is absolutely
necessary to put it into "boiling " water, water boiling hard enough to iorm, almost immediately all around the close enough meat, a coating firm and sc prevent them being drawn out and "bciled meat," not a pot a poupe of you expect to redeem from the operation. If the boiling continues four or five harm will be done; but, as you value the tinue any longer than that. Remove the pot to the back of the range, and keep
it simmering for three or four hours until the meat is quite tender. Then
you will have an appetizing dish of meat, juicy, tender, nutritious, very different
from the India-rubber article you would have had by cooking it more quickly by
the "boiling", process. Corned beef, if not too salt, should be cooked in same way, and
all left-overs of it should be put back in all left-overs of it should be put back in
the stock, where they will keep pink and the stock, where they will keep pink and
juicy until all are used. All afternoon is
not too long to simmer corned beef. not too long to simmer corned beef.
Salt or smoked meats, on the contrary Salt or smoked meats, on the contrary,
being already coated by the action of the
salt 'or smoke, should be placed in cold salt or smoke, should be placed in col
water and allowed to come to a boil,
then simmered. If very salt, they should be soaked over night, and the
chainged before putting on to
2. Stews.-In makirig a stew remember
that the object is to keep the meat juicy
and appetizing, and still have the and appetizing, and still have the that gravy
rich too. First set your stew-kettle on the range with a dessertspoon of dripping
in it, and let the latter become so hot that a blue smoke seems rising from it,
Add to it one onion (sliced) and your bits of meat (1 lb.), which should be in
squares about an inch across. Let both squares about an inch across. Let both
brown, then shake in ene tablespoon of
flour, and let that brown also. Add 2 pints of cold water very gradually, sti-
ring slowly; season; add such bits vegetable, potatoes, carrots, etc., as you
choose, and simmer two hours. On no account let it toil. "A stew boiled is
a stew spoiled." If you choose, you
may leave out the vegetables, and one
hour before serving put into the stew a
few balls made as follows : Sift together 2 small cups flour, and teasponn
baking powder. Mix with this chaning po
choosed for yo per and a teaspoon of chopped parsley or
leaf of sage. Make into a very dough with cold water, and form into
dalls. Stir occasionally while cooking. When serving, put the meat in the cen-
ter of the platter, pour the gravy
around, then arrange the balls about the around, then arrange the balls about the
edge. They must be served immediately
when cooked. If preferred, when nearly when cooked. If preferred, when nearly
done, you may cover your stew with
pastry, set it in the oven to bake, and simply pour it over some nice may light
biscuits, split in two, and arranged neat biscuits, split in two, and arranged neatly
on a platter. Serve while steaming hot. 3. Soup.-In making soup, the object
is " soup," not "meat," hence the aim
is to get the juices of the meat is to get the juioes of the meat all out
into the water. Since, then, it will be
seen that the meat left after soup must sen inat the meat left after soup must
te insipid, alnost useless, it will then neat as are otherwise of little use
mould be used for it. Some should be used for it. Some people
recommend making soup from the shank recommend making soup from the shank
we would prefer making potted meat from
the shank, and using just scraps or broken bones for the soup.
Whatever meat is used, it should be re gembered that for soup it should be
placed in cold water, soaked for a while in it, then put on the range and perpeople who uso soup often-and, as an appetizer and stimulant to the glands which secrete the gastric juice, it should
begin almost every dinner-a jar begin almost every dinner-a jar of stock
is useful. A good plain stock is made as follows : Put the soup bones in a kettle, cồe, with cold water, and soak an hour.
them place over a slow fire ani let sim then place over a slow fire, and lit simmer slowly for several hours. When it is cooked so that the meat falls off the
bones, take out hoth meat and bones.
and strain the hiquor either into vessels
that can be sealed like fruit, or into one
that may be put into a cold place without danger of being broken in in case of
frost. Before reheating for use, remove rost. Before reheating for use, remove
the fat from the top; then add water as
necessary, and such seasoning and vegenecessary, and such seasoning and vege-
tables as may be desired. If you wish to use the left-over meat, chop it fine,
season it well with pepper, salt and
anion onion juice (which, if you havere no onions,
may be bought by the bottle). Mix a may be bought by the bottle). Mix
little of the liquor in, and set away in
mould to stife mould to stiffen.
4. Hamburg Steak.-For this use the
tougher portion or the rer tougher portion or the rouLd, or, in fact,
almost any of the poorer portions of the almost any of the poorer portions of the
meat. Chep 1it lbs. of the raw meat
very finely very finely. Add 2 cups of breadcrumbs soaked in milk, 1 onior (minced), season-
ing to taste, and ing to taste, and 2 eggs. Make into a
roll, put in a baking pan, pour over it some warm water in which a piece of
butter has been melted, and bake, basting frequently. If preferred, the the steak "
may be made into small cakes asting may be made into small cakes, and fried.
5. Pot Roast may be cooked, either in se old-fashioned way in a pot on the
stove, or in the oven. The latter method is easy and quite satisfactory.
Trim off a few tita Trim of a few kitt of the fat, and try
them out in a kettle on top of the stove rut the meat in and brown very quickly on all sides. Add enough boiling quickly
to come two-thirds up on the meat, to come two-thirds up on the meat, also
an onion, carrot, etc., as preferred. Put in the oven, turning when necessary.
When it has cooked an hour, add seasonFor the gravy, skim off the fat,
mix with an equal quantity of flour ; edd
some warm (nat boiling mix with an equal quantity of flour; add
some warm (not boiling) water; set on
the stove, and stir until it thickens, add the stove, and stir until it thickens, add-
ing ar.y gravy still left in the pan.

Some New Recipes.






or gravy, a bit of butter, seasoning to
taste. Mix well; put in small dishes inmoderate oven half an hour. Serve onover them: One cup canned tomatoes
(strained), 1 tablespoor butter, 1 table
spoonBologna Sausage. -Take 6 bs.ib. beef suet, 1 oz. white pepper, 11 tea-
spoon ground mace, 3 ozs. salt, $\frac{1}{2}$ small
teaspoon cayenne, 1 .
very Chop the meat and suet separately;
very fine, then mix; add the seasoning
and mix wellstrong linen bags, and tie into lengths
Make a brine that will bear an eggi put
the sausage in, and let stand two weeksturning and skimiming every day, and
changing the brine at the end of the first
week. When takenweek. When taken out of the brine,
smoke a week. Last of all, rub the
outside with olive oil, and store in a cool,the sausage a long time, sprinkle the out-the steak out. ${ }^{\text {or }}$ Farbuill of Steak.-Lay spread over, or spread with drisssing, and
as for fowl.
one hour.
 pork (chopred fine), 2 gggs, 2 slices stale
hread soaked in milk, seasoning to taste.
Mix: make into

Recipes

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

The Letter Box.

## Children's Cormer.

The Sleepy Song.
$\qquad$ She singa me a queer little sleepy song "eq sheep that go over the hill The gopd little sheep run quick a
Their colors are gray and white They follow their leader nose to ta
For they For they must be home by night.
And one slips over, and one comes nex Ald one runs after benind;
The gray one's nose at the white one's tall,
The top of the hill they find.
And when they get to the top of the hill They quietly slip away,
But one runs over and one comes next-
$\qquad$ And over the top of the hill
The good little sheep run quick
And good little sheep run quick and swift,
nd one slips over and one comes nex
The good little, gray little sheep
The good little, gray little sheep! And she says that I fall asleep.
$\qquad$
 The Farmer's Advocate" " for about
three years. I read the ". Children's
Corner every week, and, never in all
that three years had I read a letter that interested me so much as that of Eulalie
Jefrs. As you, Cousin Dorothy, say
that it is difficult that it is difficult for our little friends to
write letters, we will excuse them; but don't see any excuse for those boys and
girls who are cortinually writing about their pets and their father's animals,
which does not interest me or any of us
a bit. |Speak for yoursalf, Fred


Japanese, have prospered greatly, withit.
the last few years, and I have that China will do the same in the doubt There is a certain feeling existing
among the people of Europe about which is called "The Yollow about that
question is if the yellow race shculd rise
to their possibilition I think that China would rise to th? place of Great Britain, and be the
strongest naticn in the world better after this is printed. Wishing all
the members the members of the "Children's Corner "
every success, I remain, FREED BLACK (age 13).
Box 329, Orillia, Ont. Iown to studying our geographies settle
and
histories, if such deep discussion
 pute Fred's idea that China is likely
take the piace of Great Britain? C.
 Cong time, and I read the Children's He has a good collie dog; his name is
Paddie. He will do Paddie. He will do anything he is told,
even to holding a chicken's head till you
cut it off. I live in cut it off. I live in Rocklyn; it is a
villagee of seventeen houses, three stores,

## ance house. We have a black mare; her and name is bis.

 name is Bany. We have a black mare; herShe took first prize at
Rocklyn Fair She has a little colt, and
wo call wo call ir Wild Whot. My my mather is a


It consists of a cheese factory, sawn. "The Farmer's Advocate " for a and says he could not do without it.
have five geese, about 100 chickens, have five geese, about 100 chickens,
milking cows $\underset{21}{\text { milking pigs. For pets, I have a kitten, }}$ dog, and a bird.
LULU DERBYSHIRE (age 1
Dear Cousin Dorothy,- I am in $t$ Junior Second Class, and I have a mile
and a half to go to school. I get the mail on my way home from school, and
1 always watch for . "The Farmer's Ad vocate." watch for The Farmer's Adand a kitten named Spot, a lot of hens and geese and turkeys, and fourteen pigs
We have two horses and two colts; their names are Jess and Maud, and our colts'
names are Topsy and Nellie. The river runs through our farm, and I anjoy fish. ing in the spring.

Dear Cousin Dorcthy, - My papa has taken "The Farmer's Advocate" since much. I live on a a farm of nitety-nine
acres. The schoolhouse is on the ween corner of our farm, and I go to schocl every day. I passed the Entrance last
June, so I am now in the Fifth Brok We live four miles from our towh, Ridge brother, Herbert, both younger than I For pets, we have one dog, Collie, and
one cat, Joseph. We have twenty pigs ne cat, Joseph. We have twenty pigs
and nineteen cattle. We milk five cows, mother milks three, and I milk two.
have taken two quarters of music, am not taking at present. ANNIE MAY CAMPBELL (age 11)
Ridgetown, Ont. Dear Cousin Dorothy, -My father ha taken "The Farmer's Advocate" for a
long time. I enjoy ready it very much, am in the Senior Fourth at school, to have four horses and three colts, fifteen cattle, nineteen sheep, ten pigs, seventy hets I , have one collie pup (four months old, your LEO. W. CHALLAND (age 11).


When is a nest like a man's mouth ? When are ladies like tropical fruits? Wecause they cannons like cigars? Ans.Wher are potatoes like a full audience ans.-When they are spectators.
(Sent by) ERNEST EATON (age 10).
 a well 20 feet A He climbs 3 feet every day, and
slips back 2 feet every night. How long
does it take it to get out. 3. When did the blind carpenter Ans. - When he took up the hammer and 4. When is a black dog not a black dog ? Ans. - When he is spotted.
5. Four stifi
standers, four dilly
danders, two hookers, two lookers, and a wigwam. Ars.-A cow.
JAMES EMERSON FLOID (age 7)

THE FARMER'S ADVOCATE


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 ence between a face
spoted.e. pimpled and
bloteched. and one free from such blemishos,
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fkin tronbles zuccesb
fully for fitteen years. If you use Dr Acne and Pimple Cure and Dermo-Nervine'they will clear your face
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apotted face brout uee our treatment. Price. Princess Dandruff Cure makes a bad scalp healthy, removes dan-
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Sond
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## RUPTURE

Quirkly and permanently curod by the ane of
one of nur ateas thyle Truseen.
Whe have the




##  <br> \section*{pigeons for" my pets. My little sister, Beatrice, has three little kittens and a

}

Dear Cousin Dorothy, - Wo drive to
cheor everris day dond
dean

 tave two dogs now. We call one Flossio and the other Oamey. Wo ued to have hat
a goat, but it diod.
It was plack and White We also hat about a doren whito aborts, but we had to sell them, because
hey barked the trees and hedges. I will ose now, sending a few riddles:

1. Which is the greatest riddle Life, for we all have to give it up. 2. What is the Lest time to study the
book of nature? Ans.-When autumn book of nature? Ans.-When autumn
turns the leaves. seven, four of us in nix, five, and six in eleven? Ans.-Letters. Ans.-A woman when travelling.
2. What smells the most in a drug
store? Ans. - The nose. ELGIN T. ARMSTRONG (age 9).
Drayton, Ont.
$\qquad$ will close now, as my little brother has 1. Why is the 12.50 train hard to

catch? Ans.- It is ten to one if you catch it. | seats mossy the sun, on the great stone |
| :--- |
| mud pies $\begin{array}{l}\text { mit. } \\ \text { Just plain little }\end{array}$ | 2. I saw a duck swimming in the mud pies, but made by the dimpled hands

pond, and a dog sitting on its tail. of sensible Queen Elera's little folk. Ans.-The dog sat on his own tail on the Queen Flena, like the empress of Ger-
many, is a devoted mother, busy in rear3. How cin you change a pumpkin iu- boys. Little has been published about
to a squash? Ans. Throw it up, and it the girlhood of the enir to a squash? Ans.-Throw it up, and it $\begin{aligned} & \text { the girlhood of the fair Empress Augusta; } \\ & \text { will come down a squash. } \\ & \text { but Queen Elena, a Montenegrin princess, } \\ & \text { IVAN ARMSTRONG (age 11). } \\ & \text { with her sisters, ran wild in the foresta, }\end{aligned}$

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than some other aspirants to high posi-

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lo to the lungs. Mr. E. Bishop Brem the well-known Galt gardener, writes:-
(thad a very severe attack of
throat and tightness in the chest. some times when I wanted to cough and conld
not I would almost choke to death My aot wot me a bottle of DR. WOOD's
wife got PINE SYRUP, and to my surf
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 Whe ponies, until in their teens,
when they were packed off to fine schools lar away from the little mountain principality over which their father reigns.
Reing domestic does not mean being a stupid drudge. When Mrs. Enid Stacy
Widringto Nherington was lecturing in this country,
she said enlightened women should have no quarrel with the word ". domeotic ". as
a desirable adjective. Taken in its nar-
rowest
remse it but, if a woman is truly domestic, she
will widen the application of the word, will widen the application of the word,
wntili it will mean all that her heart can
hold hola or her brain plan or her hands ex-
ecute for those dear to her. She will
know what a home should be, and how a house should be built for health, beauty,
and economy, and what community or and economy, and what community or
neighborbood is best, what schools and
neighero neighbors they will have, how to rogulate
the income and apportion it properly, how to make the home a spot pever to be re-
membered whow
 lesson: "Suppose your children are not
all that you hoped or dreamed all that you hoped or dreamed. The
aare yours and if they do not meet your
expeotations or fill enpeotations or fill your hoort meet yo
fowing with happiness, at ant to over
foty duty be done towners, them, least, if yy yo
occupy your time that will occupy your time that you will have no
thoughts of regret and self-pity ton Cooking School Magazine.

The Old Song.
You may talk about the new song
That you hear sung nowadays At the high-toned classic concer,
Operas, musicoles and plays. We harr them whistled on the the street
By the rich, poor, sad and By the rich, poor, sad and gay,
But the old-time songs of long But the old-time songs of long ag
Will néer dim nor pass away.

There
Laurie,", " Gentle
 "Away Down in Dixie Land," "Daisy Dean" and "Darling Mabel ",
."Not for Joe," " Old- Uncle Ned ",


The singer on the Minstrel stage
Must sing the porular Must sing the popular songas,
Like ${ }^{\text {Dem }}$ Goo-Goo Eyes,", My To please the frivolous throngs.
But, goodness, How I'd like to hear But, Goodness, How I'd like to hear
Those deanr, sweet songs of old, "In the Evening by the Moonlight Solks now Threads Among the Gold They don't want the "Old zip co
And will sure make fun of grandma It she hums an old-time tune.


We may cross the grand old ocean,
Raven locks be chan Raven locks be changed to white
But the old songs learnet in childood,
Bring back memories ef felight.
And And the world seems rally brighter
Makes the heart feel all anclow That we have not ceaseled to to love
Those swert songs of long ago.

At the Wharf End.
Win weep it out, and sleep it out
Faith, forget inc in slay
艮ll talk it out and walk it out
But what a heavin' shoulder this
To rock a lad to sleep '
Ach, me gurl, that one kiss,
Yo mon
Some cry it out, and sigh it out.
But well forkit timl
Bind

 Sne kiss-tor twinty ymus to be

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ascher's sermon

> ollecting-box. Starding in the pulpit the

laces she had seen was describing. the

hey hang the see the old Bailey, where
$\qquad$

Bob，Son of Battle．
By alfred ollivant．
［Serial rights secured by＂．he Farmer＇s
Advocate and Home Magasine．＂） CHAPTER XX．－Continued Adieu，dear amiable youth！， ofied in broken voice ；and straightway Half－way down to the Stony Bottom
David turned． ＂I＇ll gie yo＇a word o＇warnin＇，＂he a closer eye to yer Wullie＇s goings on， ＂closer eye to yer Wullie＇s goings on，
specially o nights，or happen yo＇ll wake
to a surprise one mornin＇， to a surprise one mornin＇，＂，
In an instant the little wake In an instant the little man ceased his
fooling．
＂And why that？＂he asked，following
down the hill down the hil．＇
＂I＇ll tell yo＇．When I wak＇this mornin＇
I walked to＂ Ihalked to the window，and what d＇yo＇ like a good uh up from the Bottom，all Joamin＇，too，and red－splashed，as if he＇d
coom from the Screes．What had he bin
wi to ＂What should he be doin＇，＂the little
man replied，＂but havin＇an eye to the man replied，＂I but havin＇an eye to the
stock and and that whem the Killer might David laughed harshly．
A．Ay，the Killer was oot，I＇ll go bail，
and yo＇may hear o＇t afore the evenin＇， and yo＇may hear o＇t afore the evenin＇，
ma man，＂and with that he turned away
＇again． As he had forescen．David found Maggie
alone．But in the heat of his against his father he seemed to have for－
gotten his original intent，and instead poured his latest troubles into the girl＇s sympathetic ear．
＂There＇s but one mon in the world he
wishes worse nor me，＂ wishes worse nor me，＂he was saying．It
was late in the afternoon，and he was
still inveighing still inveighing against his father and his
fate．Maggie sat in her father＇s chair by ate．Maggie sat in her father＇s chair by
the fire，knitting；while he lounged on the
kitchen table，swinging his long ＂And who may that be？＂the girl
asked． asked．
：Why，Mr．Moore，to be sure，and＇Th＇
Owd Un，too．He＇d do either 0 ＇them Wischief if he could．＂do either o＇them a
＂But why，David？＂． But why，．．David？＂she asked
anxiously．
him sure or ony ither mon for the mat hurt that．＂
David nodded toward the Dale Cup
which rested which rested on the mantelpiece in silvery
majesty． ＂It＇s yon done it，＂＂he said．＂．And if
Th Owd Un wins agin，as win he will，
bless him ！whit

















 ${ }^{\text {idt }}$ dgo，＂and she lookod as if she meait




 ＂ $\mathrm{Y}_{0}$＂silly lad ，＂the witl knitting steadidy．lastly．＂the girl murmured．


 Maggie？d＇yo＇，＂he bert and whispered
in the little ear． The girl cuddled over her work so that
he could not see her face．
 me，＂，he coaxal．＂Therr＇s other thingss
pesidies worrs．＂．
the Chir stood before her，one hand on the
charback on either side．
chne sat thes

 begged fidgeting unoasily；but the request
was unheocod． ＂Do＇de move away a weo，＂she im． ＂elentess．＂ill yove showed me，＂he said． ＂I canna，Davie，＂she cried with laugh－
" Yes, yo' can, lass."
" 'Tak' your hands away, then."
. Nay ; not till yo ve showed me
A parse.
Do
Do eee, Davie," she supplicated.
"Do'ee," he pleaded.
She tilted her face provokingly, but
"/ It's no manher o' use, Davie.'
"Iss, 'tis," he coaxed
". Niver.'
".
Please.
A lengthy pause,
Well, then-" she looked up, at last,
shy, trustful, happy; and the sweet lips
were tilted further to meet his.
And thus they were situated

(. A dear-lov'd lad, convenience snug,
Oh, Wullie, I wish you were here
It was little M'Adam. Were here! " He was leaning
n at the open window, leering at the
In at the open window, leering at the
young couple, his eyes puckered, an evil
expression on his face.
" The creetical momext ! and I inter
fere! David, ye'll never forgle me."
The boy jumped round with an oath
The boy jumped round with an oath
ha Maggie, her face flaming, started to
her feet. The tone, the words the
of the little man at the window were
alike insuffernte

Spyin' on me!'" roared David. Above
him on the mantel-piece blazed the Shep
herds' Trophy. Searching any missile in
his fury, he reached up a hand for it.
"Ay, gie it me up a hand for it. Ye robbed me
o't," the little man cried, holding out his
arms as if to receive it. ${ }^{\text {Dinna, David," pleaded Maggie, with }}$
estraining hand on her lover's arm.
" By the Lord! I'll pive him
thing ! '. yelled the boy, give him some-
stood a pay there
atil of soapy water. Ile seized
it, swung it, and slashed its contents at
the leering face in the window.
The little man started back, but the
dirty torrent caucht
dirty torrent caught him and soused him
through. The bucket followed, struck him
full on the chest, and rolled him over in
the mud. After it with a rush a
David. mud. After it with a rush came
"I'll let yo' know, spyin' on me !" he
yelled. "I'll-"Magkie, whose face
was as white now as it had been crim-
"' Dinna, David, dinna ! "ng hime implored.

"' ' 'll dad him! I'll learn him !
cared David hall through the window.
At the moment Sam'l Todd came
floundering furiously round the corner
Closely followed by 'Enry and cor Job.
" 1 ls he dead? ". shouted Sam'1, seeing
" sat
he prostead?" shouted Sam'l, seeing
"Ho! ho!" went the other two.
They picked up the draggled little man
and hustled hini out of the yard like a
thief, a man on either side and a mas

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& \text { Armitage } \mathbf{P} \text {. }
\end{aligned}
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Angus Cattle the kipd that ge

ggies ESALE 1tham. Ont. 2

 ei a ooon the the
 con ind or on ond con


JANUARY 17, 1907
standing in the darkness like a body with the apirit fled, he could but contrast this
dreary home of his with the dreary home of his with the bright
kitchen and cheery faces he had left. Entering the house, he groped to the a matchen door and opened it ; then struck ing in. " Not home, bain't he?" he muttered,
the tiny light above his head. "Wet inside as well as oot by noo, I'll lay. By
gum ! but 'twas a lucky thing for him I gum ! but 'twas a lucky thing for him I I could ha' killed him." He held the match above his haad.
Two yellow eyes, glowing in the darkTwo yellow eyes, glowing in the dark-
ness like cainngorms, and a small dim figure bunched up in a chair, told him his (3) surmise was wrong. Many a time had he seen his father in such case befcre, and
now he muttered contemptuously: "Dif, I reck', the leetle swab! Sleepin' Then he saw his mistake. The hand
that hung above the floor twitched and was still again.
There was a clammy silence. A mouse, emboldened by the quiet, scuttled across
the hearth. the hearth. One migaty paw lightly
moved; a lightning tap, and the tiny moved; a light
no movement, only those two unwinking eyes fixed on him immovable.
At length a small voice from the fireside broke the quaiet.
" Drunk-the -leetle
Again a clammy silence, and a life-
lorg pause.
I. I thowt yo' was sleepin',", said David. at length, lame lam. las sleepin, " said David,
". Ay, sc ye said. Sleepin' it aff' ; I heard ye." Then, still in the same small
voice, now quivering imperceptibly, "Wad voice, now quivering imperceptibly, "Wad
ye obloege me, sir, by leetin' the lamp?
Or, d'ye think Wullie, 'twed be soilin' his dainty fingers? They're mair used, I'm told, to danderin' wi' the bonnie brown
hair o' his-", " I'll not ha' ye talk o' ma Maggie so,"
interposed the boy passionately.
". "His Maggie, mark ye, Wullie-his! I
thocht 'twad soon get that far." "Tak' care, dad! I'll stan' but little
more," the boy warned him in choking voice, and began to trim the lamp with
trembling fingers. trembling fingers.
M'Adam forthwit
Red Wull.
 for him, an' ye ken hoo he's repaid it.
He's set himsel' aggn me; he's misca'd me; he's robbed me o me Cup; last of
all, he struck me-struck me afore them a'. We've toiled for him, you and I,
Wullie; we've slaved to keep him in Wullie ; we' ve slaved to keep him in
hoose an' hame, aut he's passed his time,
the while, in riotous leevin', carousin' at Kenmuir, amusin' himsel' wi' his-", He
broke off short. The lamp was lit, and broke off short. The lamp was lit, and
the strip of paper, pinned bn to the table, naked and glaring, caught his eye.
" What's this?" ho muttered; and un loosed the nail that clamped it down. This is what he read
"Adam Mackadam yer warned to mak'
an end to yer Red Wull will be best for him and the Sheep. This is the first yoll
have two more the third will be the have t
last-
It was written in pencil, and the only
signature was a dagger, rudely limned in signature was a dagger, rudely limned ilu
red.
M'Adam read the paper once, twice,
 meaning, the blood faded frcm his face.
He stared at it and still stared, with
whitening face and pursed lips. Then he whitening face and pursed lips. Then he
tole a glance at David's brood back. "What d'ye ken o' this, David?" he
asked, at length, in a dry thin voice, asked, at length, in a dry thin voice,
reacaning forward in his chair.
" o' what ?"
" $\mathrm{O}^{\prime}$ this," holding up the slip. "And "O' this," holding up the slip. "And
ye'd obleege me by the truth for once."
David turned, took up the paper, read Mavid turned, took up the paper, read
it, and laughed harshly,
.. It's coom to this, has it?" he said, "It's coom to this, has it?" he said,
still laughing, and yet with blanching
face. ". Ye ken what it means.
pit it there ; aiblins writ it.
I daresay ye
Ye'll exWlain it." The little man spoke in the same small, even voice, and his eyes never
monved off his son's face. moved of his son's face.
"It's plain as day. $\mathrm{Ha}^{\prime}$ ye nc
lieard?",
"I've hoard naethin".


## CARnefac <br> is Just what

## THAT THIN HORSE NEEDS

THOBE STEERS that are not thriving need only CARNEFAC to bring them on. CARNEFAC brings results SURE and QUICK.

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The Capmefac Stock Food Co.,
```

Tomonto.

## AUCTION AALE

At Maple Hurst Farm, kEnilworth, on Thursday, dan. 31st, '07,

## At 1 p.m. sharp.

Consisting of seven bulls, ranging from one to two years ofd; twenty females at foot, sired by present stock bull, Prince 61878, by Prime with calt or cal Marr Princess Royal, and the balance are a choice lot of young heifers, (1mp.). thick, mossy type. Also a few matched pairs of road and carriage horses wil
be offered, and a few purebrad Yorkstre Farm: one mile from Kenilworth, seveL miles from Arthur, eight from $\mathbf{M t}$ Forest, on C. P. R. All tranins met on day of sale.
M. J. McGillicuddy, Pmopmetor.

## Important Dispersion Sale:

One of the oldest and best fincks of Cotwold sheep in Canada will be sold at the
ROYAL HOTEL WEDNESDAY, JANUARY $23 \mathrm{md}, 1907$
50 Registered Cotswold Ewes Trom one to five years old. All bred to the imported shearling ram, champion
at the Canadian National Exhibition. Toronto. 11006. This grand ram is aloo
neluded in the sale. Sale to commence at 1 p.

VALENTINE FICHT, PROPRIETOR, ORIEL, ONT, E. R. Almas, Auctioneer

## Every Subscriber


 HoMr magazine, at i.so, and mo mill mod roi

 thip roll.

Chair overtarmed with a crash; a great
body struck him om the chest; a bot. podithent treath volleyed in hist, a hot.
pesce, and
wolfish teeth were reaching for the wolfish - Come on, killer ! ". he screamed.
The horror of suspense was past. had corme, and with it he was himself Back, back, back, along the wall he was
borne. His hands ent arouve a hairy throat : be forced the
great head with its horrid lightsome eyes great head with its horrid lightsome eyes
frcmm him ; he braced himself for the
eflort, lifted the huge body at his breast eflort, lifted the huge body at his breast,
and heaved it from him. It struck the wall and fel! with a soft thud.
As he recoiled a hand clutched his
ankle and sought to trip him. David ankle and sought to trip him. David
licked back a and down with all his
strength. There as strength. There was one awfull grean.
and he staggered against the door and
There he paused, leaning against th
to see where the hatd hat clutched him

$$
\begin{aligned}
& \text { panting of his beart. } \\
& \text { He crept back to the kitchen door and } \\
& \text { listened. }
\end{aligned}
$$

listened.
Fearful
Siience
Siience of the tomb.
He banged it to. It opened behind
him, and the fack him, and the fact lent wings to his feet.
He turned and plunged night, and ran through the blackness for
his life his life. And a great owl swooped softly
by and hooted mockingly.

PART V
Owd Bob o' Kenmair

In the village even the Black Killer and the murder on the Screes were forgotten
in this new sensation. The mystery in
which the affair Which the affair was wrapped, and the
ignorance as to all its in been a fogt, MAdam and the Terror
had been mauled; ald David had disap-
$\qquad$
$\qquad$

 At that MAdam raied his efercome
 winstle. "Thougt's it, is it ?"." be muttered, as chough a new light
Ah, moo I see."
The days passed on. There was still no news of the missing one, and Magsie's
face became pitifully white and hagerd Of course she did not believe that Therd. had attempted to murider this father desparately tried as she lnew he had been. Still, it was a terrible thought to ber
that he might at any moment be that he might at any moment be arrested;
and her girlish imagination was perpet; ally conjuring imp horrid pietures of a
trial, conviction and trial, conviction, and the things that fol
lowed.
$\qquad$

$$
\begin{aligned}
& \text { wall to breathe. } \\
& \text { He struck a match and lifted his foo } \\
& \text { to see where the hasd had clutched him }
\end{aligned}
$$

Then Sam'l started a wild theory that
the little man had murdered his son, thrown the mangled boody down the dry
well

$$
\begin{aligned}
& \text { Ged ! there was blood on his heel. } \\
& \text { Then a great fear laid hold on him. } \\
& \text { cry was suflocated in his breast by th }
\end{aligned}
$$ well at the Grange. The story was, of

$$
\begin{aligned}
& \text { cry was sufocated in his breast by the } \\
& \text { panting of his heart. }
\end{aligned}
$$ by and hooted mockingly:

life... Four life for your life for your
life ignorance as to all its details, served to
whet the general interest. There had
been a fat. peared-those were the factid. had disap-
was the origin of the affray no cre could
say
$\qquad$ course, preposterous, and, coming from such a source, might well have been dis
carded with the ridicule it deserved it served to set the cap on the girl's
iears ; and she resolved, at whatever gits to visit she resolved, at whatever cost, to visit the Grange, beard M'Adam, and not allay her gerawing appprebension.
Her intent she Her intent shawing apprebension.
father.
 ly forbid the attempt ; and on an firm-
for noon some fortnight after David's disap pearance, choosing her opportunity, she
picked up a shap picked up a shawl, threw it over her
head, and fled with head, and fled with palpitating heart out
of the farm and down the slope to the Wastrel.
The litule plank-bridge rattled as she
tripped across it ; and she fled faster lest any one should have heard and come to

$$
\begin{aligned}
& \text { CHapter XXII } \\
& \text { A Man and a Maid }
\end{aligned}
$$ rattled And, indeed, at the moment it guiltily round. It preved, however, to be only owd Bob, sweeping after, and she

was giad. the Comin' ui me, lad ?" she asked as that gray cartered up, thankful to have Round Langholor with her
spirators; over the summer-clad lower reached the Sike, untii, at length, they
bramblecorered Bottom. Down the bramblecovered bank of the ravine the
girl slid : picked her way girl slid : picked her way from stone to
stone across the streamiet tinkling in tho rocty bed: and scrambled up the op-
posite bank. At the top she halted and looked back.
The smoke from Kenmuir was winding
low $y$ up slow ly up against the sky. was winding the low gray cottages of the village rudt over the Marches the Dale; far away
Scaur Scaur; before her roiled the gaunt
slopes of the Muir Pikelling
she glane she glanced timidly Pike; while behindwas the hill, at the tover of which shoulder-
the Grange. he Grange, lifeless, cold, scowling.
Her heart failed her. In ber She had newer spoken to MA her whale life
she knew him David's accounts-ay, and heng from all David's sake. Say, and hated him for
him, too: feared him mim and feared
herribtertaly terrible little man. him mortally this
she recalled the dim face with a shudder, and recalled the dim face at the wint window.
her father of his notorious hat her father. of hut even M'Adam could
hardly harm a girl hearted, to seek a her lover. Besides, was
not Owd Bob with bere And, turning, she saw the old dog back at her as thay up the hill, looking she waited. "Am I not enouga ? " the
faithful gray ey iaithful gray eyes seemed to say. to the unspoken quarti, was her answer Yet that look determined her. She
clenched her little teeth, drew the shawl
about her, and set off running Soon the run dwindled to a walk, the

ANUARY 17, 1907

## Faltifio from

Poisons in System an oood mantra oan onily xe TURN WHEN THE BLOOD FIL
TERS, THE LIVER AND KIDNEYS, ARE SET RIGHT BY
DR. OHASE'S KIDIEY-LIVER PILLS
 Aom anm and kidneys to remove these impurities,
the blood becomes filled with the blood becomes filled with poisonous
substances which instead of aiding the functions tend to errest them and give rise to pains in the limbs, backaches,
headaches, and tired, worn-out feelinges There remains to be discovered a more prompt and eflective means of enlivening
and invigorating the action of and invigorating the action of the liver
and kddneys than Dr. Chase's Kider Liver Pills. In fact, this medicine is unique in its combined influence on the liver and kidneys, and to this doutle a
tior is attributed its extreordine tior is attributed its extraordinary suc
cess in the cure of complicated diseases these filtering organs. Biliousness, headaches, indigestion, kid
ney disease and constipation are prompt ney disease and constipation are prompt-
ly and thoroughly cured by Dr. Chase's ly and thoroughly cured by Dr. Chase'
Kidney-Liver Pills, and the whole system Kidney-Liver Pills, and the whole system
is cleansed of the foul impurities which result in disease and suffering.
Mr. John Guheen, who is in the fish husiness in Port Hope, Ont., states : "In
my business I do a great deal of drivin over bad roads, and the constant jar of the rig, along with exposure to all sorts of weather, brought on kidney disease.
was in miserable health, aud suffered great deal with sharp pains in my back I heard of Dr. Chars's Kidney-Liver Pills,
and decided to try them. Belore I had and decided to try them. Before I had three boxes have entirely cured me. am very glad of an opportunity to recommend Dr. Chase's Kidney-Liver Pills, fo tridney disease."
Dr. Chase's Kidney-Liver Pills succeed cause of their direct and combined action on the liver and kidneys. This has been
proven in thousands of cases of serious and complicated diseases of the kldneys
Dr. Chase's Kidney-Liver Pills, one pil a dose, 25 cents a box, at all dealers o
amanson, Bates \& Co., Torontc


Just the Thing for Sore Teats 8


THE FARMER'S ADVOCATE

OUESTIONS AND ANSWERS. Miscellaneous.

## CAMADIAK WILD RYE GRASs.

 sending a new weed found growing $\begin{aligned} & \text { by the roadside. } \text { Please identify. } \\ & \text { S. K. Mer. }\end{aligned}$ Ans.-Canadian wild rye grass, an innocent plant, characterized by the twopronged plumes in which the grain is eh

## closed.

wet ceilhar wall
I built a basement or cement cellar un
der my house. Three-inch tile were pu
all arcund the wall just inside der my house. Three-inch tile. were pu
all arcund the wall, just inside of wall;
but water comes through the cement wall but water comes through the cement wall
Is it the fault of the drain, or of the wall, or cement work not being properly
done ? The tile have a good outlet. done? The tile have a good outlet.
Would it have Leen better to put tile cn
outside of the wall? The water comes outside of the wall? The water come
through the side walls, not loor, which
is of cement. Ans.-Our experience is that the tile
should have been around the outside of the wall, and run into a the drain with good fall running away from the site of not be so porous , It should, it wi
lbaking cbiermy tame
I have recently built a concrete wate
tank ir a corner of my besemenit, Do which fails to bold water. The walls ar 18 inches thick, plastered and white
washed with cement. No holes nor crack washed with cement. No holes nor crack
are visible, but the water seems to are visible, but the water seems to
escape by absorption through the wails.
Could you sugge Could you suggest a remedy, something
to form a filling of the pores? to form a billing of the pores ? How
would a coat of paint do? READER.
Ans.-In similar cases, as the cement
has hardened with time, the soepage has
ceased ceased. Can any reader suggeot has
other remedy?

Veterinary. umbincal mbanta Three-year-old filly has a rupture the
size of the end of a man's thumb, about ten inches in front of the mamma

1. How should it 2. Wow should it hurt her to to do a little
light driving? Ans.-1. This is umbilical hernia. When so small as this is, even in a threo-year-
old, a truss will sometimes effect a cure A truss should be made by a harnese. maker, and consists of two pieces of leather about four inches wide lined with
felt, and with a buckle felt, and with a buckle on each corner.
On the center of one piece, a second piece On the center of one piece, a second plioce
of soft leather-rourd, about 4 inches in diameter-should be sown and stuffed with horse hair to make a protuberance,
which should be placed to press upon which should be placed to press upon the hernia, and keep it pressed back into the
abdomen; the second piece of leather
placed over the colt's back, and the two placed over the colt's back, and the two
fastened together by straps between the fastened together by straps between the
buckles mentioned. On the center of each strap should be a buckle attached to split strap, which is placed arouvd the colt's neck like a collar, to keep truss
from working backwards.
The truss must be properly adjusted, and kept on for
abcut three weeks. A truss may be arranged with canvas to talke the place of the more expensive one. If this fails to effect a cure, an operation by
narian is the only alternative.
2. It will not hurt her to drive. It
is quite possible it might never hurt her is quite possible it might never hurt he
but there is a danger of it enlarging un
der severe muscular strain at an time
Messrs. A. Duncan \& Sons, Carluk
Ont., breeders of Ont., breeders of Shorthorn cattle, write "Thanks to ' The Farmer's Advccate,' we
have recently sold to Mr. A. D. Schmidt have recently sold to Mr. A. D. Schmidt,
of Elmira, our stock bull, Greengill Archer (imp.), which has proved a grand
stock bull; but owing to his heifers bein stock bull, but owing to his heifers being
of breeding age, we had to part with
him. Also sold to Thornton, a young bull, from a Rcan Duchesis cow, and sired by Greengill Archer (imp.). We have no more bulls
of breeding age left, but have a
last fall's calves coming on, and any per-
son looking for show caives of eithy per sex
can find a fow high-class ones; all
can find a fow high-class ones; all sireal
by our former stock bull, Greengil
Archer (imp.)."


## Study at Home






 THE Home ion spoubice Tormate, cmana



HEREFORDS jamuary shit

 н. d. smith, mamition, owr.

AYRSHIRES \& POULTRV

 Naten

## THE RAVAGES OF RHEUMATISM

ARE CAECKED BY BILEANS
A Woman's Sensational Cure.

Mrs. Selina Davis, a resident of AbingBileens aro debility. She says : "I had pains in the limbs and across the back, weighing down years ago the pains in the back and I tried varios became almost unbearable. lound no relief. In Ootober came a erisis. I was rendered completely help-
less by active rheumatism. By the docter's advice I went into hospital, where I remained under treatment for nine weels. On returning I was confined to my bed again for seven weeks. I read a desciftion of the good work Bileans
were dofing. This induced me to obtain a supply/ After a little while I regained
the use of my limbs, and after that my progreis was rapid. For some time now life and work, and am altogether a a differ pnt pefson from what I was during the
last few years." last lety years."
Rheumatism is due to the presence of
certain poisonous aclds in the blood. "ilter poeds " for the blood are the liver and the kidneys. Through theee organs the blood passes, and. When the organs are In healthy operation they filter out the
harmfil substances. When they are no harmfur substances. When they are not
in healthy operation they fail, and rheu matism is one of the many, serious re
sultis. Bileans do not act directly suits. Bileans do not act directly on
the blood, tut they act upon and cor
rect the liver and kidneys, rect the liver and kidneys, and thus cor-
rect the real cause rect the real cause of rheumatism. Bileans
are also a sure cure for indigestion, liver are also a sure cure for indigestion, liver
troubles. headache, gas, belching, pains allments, and all blood impurities. All tores and druggists sell at 50 c . a box or post free from the Bilean C
for price.
$\mathbf{8}$ boxes for $\$ 2.50$.

## ALBERTA

Offom Opportunitles. Northern Alberta is the garden. round MILLLETT is unsurpaseed. The town prosent many ohanoes for businese
openings.
tion write:
P. J. MULLEN, Eoo. Millet P

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MILLET, ALBERTA.
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BROOKS' NEW CURE



## 

Huntlywood Shorthorns,
over had, by Imported Cicely's Pride

W. H. Glbson, Manager, Huntlywood Farm, Beaconsfield, Que. IT Tem TVanted



## Cossip.

From January 1 st up to November
12th, 1908, the number of Clydeadale exported from Scotland of Clydeedalea distributed as follows

## Canada South $A$ <br> South America U. S. America New Zealand <br> South Africa

Australia
Denmark
These figures represent the numbers reHorse Society, for each of which ader tificate of registration was issued.
D. Milne, Ethel, Ont., writes : $M$ stock of Shorthorns ( 59 head), headed by hooks Prince (imp.), is doing well. Of twelve calves dropped to date, two are calves. Have thirteen; all thick, mosey to calve yet, of the following Scotch families: Minas, Claras, Clarets, Crimson Flowers, Rosebuds, Marr Beautys, Scottish Maids, and others. The young
bulls I advertise have only bulls I advertise have only to be seen to
find buyers, as I have sold to every man that came here to buy this winter. Will make prices and terms to suit purchasers.
IIave made the following sales. Jately Bull to P. J. Bishop; bull to llatthew
Smith, Gadshill, Ont.: bull to Donald Campbell, Komoka, Ont.".

Mr. Alex. Hume, Menie, Ont., is ordering a change in his advertisement of Ayr-
shire cattle, writes : "Our herd is in fairly good shape after their long trip East,
to the Halifax and Charlottotown exhibitions, a trip we enjoyad, everyowe exhibi-
being obliging and courteous. At Het fax and Charlottetown we met many fel-
low breeders, fine fellows, with whom it low breeders, fine fellows, with whom it
was a pleasure to associate or compete.
We won in all $\$ 736$, out of ha won in all $\$ 736$, out of which we
much the monpenses, but it was not so much the money we won as the associa-
tions it brought us, and the advertise-
ment it med ment it made for us. Having so many
of breeding age of his get, we have cont cluded to offer for sale our stock bull,
Lessnessock Royal Star Lessnessock Royal Star (imp.). His
stock won in the strongest competition stock won in the strongest competition.
He is still as active as ever, and will be a good investment to any breeder. The
young bulls we young bulls we offer have been carefully
bred for milk, and ought to improve any dairy herd. They are in fine improve any
prices are reasonable our shire boar is a hig fellow of excellent
type, type, and we will sell him cheap, rather
than castrate him. He was winnar sweepstakes at Ottawa when a wix--months
pig. The young sows ane of smoth type, perhaps not the extreme bacon type,
but profitable breeders.
thing theot things are chcice ones. Following is a to J. O'Connor, Campbelliord; another to
Jas. S. Hill, Mat Jas. S. Hill, Madoc; bull; calf to ther to
Innes, another to R. Scott, both of Camphellford, bull calf to W. W. Wh. Whitton,
Menie; another to C. C. Moore, Kings-
ville, two-year-old heifer with calf at ooot
to Will Crostery to will Creskery, heifer with calf at foot
Mr. Thompson, two heifers to
Me. Cifer, Ranalee. to Re. the two-year-old
heonter \& Sons;
two-year-old heifer with Hunt twor, Banalee, to R. Hunter \& Sons;
twoyear-old heifer with calf at foot to
Alexander. Industrial SChool, Toronto
bull calf, Shining Star to Mess. bull calf, Shining Star, to Messrs. Craw-
ford Brothers, Brown's Corners, bull calf,
Prince Juno to a party in P. E. I.; the
yearling bull, Starlight, by Lessnessock yearling bull, Starlight, in Py Lessnessock
Royal Star, which appears in Christmas
number of , The Farmer's Advocate, to
the Michigan State School for the Deaf,
Tlint. Messers Sime
 rand two-year-old bull, Princee Sunbean
if Glenora, at a long price, to head their
cry promising Ayrshire herd. Mr. Ed.
arins, of Camphell's Bay, Que, when at Cry pora, at a long price, to head their
romising Ayrshire herd. Mr. Ed.
ains, of Camphells Bay, Que., when at
ottawa Fair, would do with nothing less
than tho., vinndly.trat

DON'T BUY GASOLINE ENGINES , minu buy


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HardSteel
Wire


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## Ideal Fence

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Ther aritrod k kow how toforo for

Woid Hiko iol rak Ideal feno. potr


THE McGiREGOR BANWELL FENCE CO., Ltde, Dept. B. Walkerville, Ont THEIDEAL FENCECO., Ltd. Dept, B. Winnipeg, Man.


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HAMILTON \＆HAWTHORNE，SImcoe，Ont 89 miles soath－west of Toronto on the G．T．B．


IMP．CLYDESOALES \＆HACKNEYS
Stallions and fillies of both breed， representing the best blood of Eng
land and Scotland，combining siz land and Scotland，combining size in want or something exceptionally
ohoice，oome and see me．You will
not be disappointed．Prices right． DUGALD ROSS，8tmeeteville，Ont． Write for catalogue．

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HACKHEYS and CLYDESDALES
Established 90 years，and winners at all large shows in Canada and United States．Best of stook alway on hand for sale．New importation of Royal winnera
just arrived．
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 CLYDESDALES，SHORTHORNS and YORKSHIREE

DONALD GUNN \＆SON，BEAVERTON P．O．\＆STN．
Farm Threo－quarters of a MIIe from station
BMITH \＆RICHARDSON，
COLUMBUS，ONT．

 Lond－distanoe＇Phone Myrtil station，C．P．R．

3
WM．COLQUHOUN，Mitchell，Ont．
10 Clydesdale Stallions
Lately imported，from 2 to 8 years of age．Carrying scotland＇s riches quality and true action．Come and see them．

W．C．KIDD，LISTOWEL，ONT． Importer of Clydesdales，Shires，Perohorons，Belgilans
Haokneys，Standard－bmeds and Thoroughbreds of highosi nossible quality and richest broeding．Have sold as many stallions the last year as
any man in the bninness，with oomplete satiofoction in every case．I have always a large number


Ontario Farmers＇Institute Below will be found a list of the Farmers＇Institute＇meetings to be held in Ontario during the latter part of Janu－ tende he，as sent us by Superin－ tendent G．A．Putnam，contained a rum－
ber of meetings on dates from January 11 th to 16 th, but it came to hand to late for publication last week，hence we prior to Jan．17th，the date of the pres－ ent issue．
＂A lady
regular meetings division I
Speakers：：H．Jones，Maitland；W．
Shearer，Bright． Shearer，Bright．
IIepworth，N．Brut IIepworth，N．Bruc
＂Tara；W．Bruce． Port Flein We ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．${ }^{\text {an }}$ ． 18 ＊Port Elgin，W．B
Lakelet，Union ．．． Lavery＇s Schoolhouse，Union． Georgetown，Halton Hornby，Halton ．．． DIVISION 2. Speakers：W．Flliott，Galt ；J．Gand
house，Highfield． Exeter，S．Huron ．．．．
Brucefield，S．Huron Inwood，E．Lambton Brigden，W．Lambton …．．．．Jan．Jan． 19 and 18 Walker＇s Schoolhouse，W．Middle 22 and 28 Middlemiss，W．Middlesex．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 2
division 3.
Speakers：J．F．Lavery，V．S．，Sunder－
land ；J．E．Orr，Fruitland．
．．．．Jan． Valetta，W．Kent Leamington，S．Essex …．．．．．．．．．．．．．．．．．．．．．． 19 Oldcastle，N．Essex …．．．．．．．．．．．．．．Jan． 23 Belle River，N．Essex
$\qquad$ Speakers：Dr．J．Standish，Walkerton；
Geo．Carlaw，Warkworth，Jan． ＊St．David＇s Schoolhouse，Lin－ iagara Falls South，Welland．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 18 Willoughby，Welland
Pelham Centre，Monck elham Centre，Monck
Atterclife
Station，Monck Cayuga，Haldimand ．．．．
Hagersville，Haldimand Hagersville，Haldimand Littoria．S．Norfolk
Langton，S．Norfolk
division 5.
Speakers：E．C．Drury，Crown Hill M．McCallum，Shakespeare，Jan． and 25 ；Miss B．Carter，Guelph，Jan
17 to 23 ． Arnan and Leith，N．Grey ．．．．．．．．．．Jan． 17 Strathavon，N．Grey ．．．．
Owen Sound，N．Grey Kemble Schoolhouse，N．．．．．．．．．．． Brown＇s Schoolhouse，N．Grey
 Chatsworth，N．Grey（eve
Bond Head，S．Simcoe
Churchill，S．S．Simcoe
SUPPLEmentary meetings．
DIVISION 2
Speakers ：Dr．H．G．Reed，George
town ；G．Barbour．Crosshill， 1；Miss B．Miller，Guelph，Jan． 14 to Hopeville，C．Grey ．．．．．．．．．．．．．．．．．．．．Jan． 17 Dundalk，C．Grey
Badgeros，C．Grey
Maxwell，
Feversham，C．Grey．
Midhurst，C．Simcoe
inesing，C．Simcoo
New Flos，C．Simcoee
Allanwood，C．Simcoe
Wyevale．C．Simer
Yeebridge，C．Simcoe
Corners，C．Simcoe DIVISION 12.
Skeakers：John Campbell，Woodville
G．Clark，Ottawa， （Continued on Jext 11 to 24 ；

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THOS. MERGER, MARKDALE, ONTARIO.

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Haa on hand to hoad of CIvdeadale, Prorheron and Hackmor
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Avery one a high helaes stotor and a show animal. Gp'endialy matconed pairi


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3 Choice Hackney Stallions for Sale.


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Imported Clydesdale Stallions and Fillies


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TO SECURETHE BE\&TRE\&ULTB Place an Ad, in the Farmer's Advocato

Hespeler, Ja
Malton, Peel
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,
$\underset{\substack{\text { Mono Rond, } \\ \text { Bolton, Peel }}}{\text { Pe }}$
Kleon, Pur, Pel. W, Yo... York
Maple, W. York

Thornhill,
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Sipaters Division 15
Speakers: W. F. Kydd, Simcoe
Mason, Strafordvile.
Moira, N. Hastings
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Turner's Schoolhouse, W. Hast
inge
Harder's Schoolhouse, W. Hast-
ings
-Ciilbert's schoolhouse, W. Hasi-
*Foxboro. E. Hastings
Plainfield. E. Hastings
Melrose, E. Hastings
 Cataraqui, Frontenac Glanburnie, Fronteacac
Sunbury Sunbury, Frontenac …
DIvision Speakers: C. W. Nash, Toronto : A. Winchester Springs, Dundas Jun * Chesterville, Jundas
Moulinette, Cornwall Apphaeld, Cornwall
Hill, Glengary Maxville, Glengarry McCrimmon, Glengarry
St. Eugene, Prescott Pla Eugene, Prescott
Plantagenet, Prescott
I Leonard, Russell
Russel, Russell Russell, Russell
Casselman, Russel
Speakers: : HIVVISION 17. S. Stevenson, Ancenter.
Sititsville, Carletun Munster, Carleton
Glasgow, A . Rentrew Admaston, S. Renfrew
Scoten Bush, S. Renirew Aree Th. N. Rentrour
Greenwood, N. Rentrew Cobden, S. Lanark
Drummond, S. Lanark
Rummen Trummond, S. Lanark
Balderson, S. Latark.
Harper, S. Lanark
Hand. Marper, ${ }^{\text {St }}$ S. Lanark
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may be an extreme instance ; but it is is an
example worthy of imitation. - N
Stockman.


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Auotion Salon of
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Oonsignmente. noliditiod. Correapmondeno
will reoeive prompt aitiontion.
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No more bllind horees - For Speatine


ROCK SAL
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Pnd cattle.
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## Has your Horse an old Strain or Swelling?

Here's the way to cure it
Rub three teaspoonfuls of Fellows' Leeming's Essence in the sore place, and repeat the rubbing in 24 hours This running turns to a sour for ge on the part. So a scurf and forms a firm bandrwelling, the effect of as it stays over the strain In 14 to 16 days, the scurf falls off and the horse is well
And you can work the horse all the time Fellows eeming's Essence is curing it.

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for Lameness in Horses.
50c. a bottle. If your dealer has none, write
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QUIESTIONS AND ANSWTRS.
Veterinary.
Roars.
Three-year-old colt had distemper last wind has been affected. When at rest, the is all right, but on driving or the least
excitement he makes a noise and acts as though broken-winded. Would blistering the throat be effective? "roars," which has what is called sequel to distemper. It is usually due to larynx (the of the muscles of the mencement of the windpipe), and when
such is the cause noting cept the performance of an done exation Which is very expensive and often not successin. in sone cases, it is due to a
thickening of the mucous membrane of thickening of the mucous membrane of
the larynx, and in such cases repeated blisterings may result in an improvement by encouraging absorption. You might
try blistering.

## Miscellaneous.

the cabinet-royal faime
S. H. K., Grey Co., Ont., asks:

1. Can you tell me the members of Sir
Wilfred Laurier's Cabinet and their dopartments and portfolios? of England.
2. When is the Princess of Welese binth day, and how old is she? Ans.-1. The members of Sir Willred of Trade and Commerce, The Rt. Hon
of Sir Richard Cartwright, G. C. M. G.,
P. C.; Secretary of State, Hon. Richard
W. Scot, K. C.; Minister of Justice, W. Scott, K. C.; Minister of Justice,
Hon. Allan B. Aylesworth, K. K. Minister of Marine and Fisheries, Hon. Louis Rrodeur; Minister of Militia and
Defenoe, Hen. Sir Frederick Borden C. M. G.: Postmaster - General and

Lemieux, K. C.; Minister of Agriculture Mon. Sydney Arthur Fisher, B. A. Minister of Public Works, as yet vacant,
Minister of Finance, Hon. Wm. Stevens Fielding; Minister of Railways and of the Interior and Supt.-General of In dian Affairs, Hon. Frank Oliver ; Minister
Minister of Inland Revenue, Hon. W.
Templeman. The names of the Royat family are
2. The Queen, Alexandra ; their surviving children, H. R. H. George Frederic Ernest
Albert. Prince of Wales; II. R. H. rincess Louisa Victoria Alexandra Dag
mar, Duchess of Fife; Princess Viotorià mar, Duchess of Fife; Princess Viotoria
Alexandra Mary ; Princeas Maud
Charlotte Mary Victoria way. The Princess of Weles Princess Victoria Mary of Teck, was born
May 26th, 1867.

## COSSIP.

shooting with camera. There is a strong indication of the commals with the camera will shooting aniin sporting circles as prowess with the

Mr. John Miller, Brougham, Ont. that I want to part with at present, I am now offering some extra nice young
Shorthorn bulls for sale. They ery Shorthorn bulls for sale. They are from
some of our best cows, and prices will some of our best cows, and prices will
be made to suit. Have one chotce red
coll calf that will do to show any placo. I
also have a few good young Clydesdalo also have a few good young Clydesdale
mares that will
me sold worth the
$\underset{\text { Messrs. }}{ }$ John Lee \& Son, Highgate, Ont., write: "" The young Shorthorn bulls, Which we offer in our advertisement,
which there are six, are a grand, thick sappy, good-doing lot, three reds and
three roans. Five are sired by our
res. present stook bull, Ridgewood Marquis, by
the champion Sicy other is a son of Imp. Favorite, and out of Lovely of Pine Grove, by Marquis of
Zenda. Most of thees bulls are ready Zenda. Most of these bulls are ready for
immediate service, and will be sold att By notifying us a a day ahead, we will be
pleased to meet visitors." pleased to meet visitors."

## Minister Speàlis to Mothers

Tells tils Whe's Experionce for the Salle of Ohher Suftorers.
The following letter has been sent to Dr. T. A. Slocum, Ltd., for publication.
 oriptitution) has had two nevere gilthck of 1

 owever ruin down, reeforing to heothy zotlo Ho disener jour Poychino and Oxomildon tro 61 Walper Avenue, Toronto.
PSYCHINE, Pronounced SiAkeen, is a scientific preparation, having wonderful tonic properties acting directly upon the Stomach, Blood and weak organs of the body, quickly restoring them to strong and healthy action. It is especially adapted for people who are run Coughs, Colds, Catarrh, LaGrippe, Pneumonia, Consumption and all Pneumonia, Consumption and all
stomach or organic troubles. It has no substitute.

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is for sale at all dealers, at 50 c and $\$ 1.00$ per bottle, or write direct to King St. W. Slocum, Limited, 179 There is no oronto. There is no other remedy "Just
as Good" as PSYCHINE.
Dr. Root's Kidney Pills are a sure and Dermanent cure for Rheumatisn, Bright' of Kidney Trouble. 25 c per boz, at all
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M. K. FARBAMAN. THEDFORD, OMT. D. Bartlatt \& Sons, Smithrills. Ont
 ahoice quality, Eutible for mhow puripoenea, Emithrille. Ont
ARLINGTON SHORTHORMS AND LEICESTERS


 4 Oholoe Young Eulle fow Salo At ane ine Tarme remomablo. Nowming Bert Imp. Shorthorn Bull, Bon Lomond Corene Imp. Shorthorn Bull, Ben Lomond (80168) roange proferred Adomond fors: an imported boin

## R. A. \& J. A. WATT,



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SALEEI P.O. Elora Stations, G.T.R. and C.P.R Forz maxie
8SCOTCH SHORTHORN BULLS


 Shorthorns, Cotswolds - and Berkshlmes. Tor Eale: 9 yearling bulls, cos.

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 Shorthorns, Berlshires \& Lincolns

F. Martindale \& Son, York, Ont., write: - Our Sherthorns are doing well. The calves coming now, sired by Bandoler
40108 and Maruuis of York $=61680=$ are a grand lot. The demand for young bulls has been good, having sold all but four Two of these are from prizwwinnting cows; three are show bulls fit to head herds; three are Arom extra good milking cows; one is a Waterloo Daisy, and another
sired by a Waterloo Daisy bull. Thie tamily has won a great number of prizes in dairy tests. Their ages are seven to twelve months, and we offer tham at at
prices to suit the times. We would also prices to suit the times. We would aliso
sell a few females. In Berkshirce, we are
 pig, and our stock boar, Durham's King-
clere, both bred by W. H. Durham, Tolere, both brod by W. H. Durham, , ioo
ronto; one boar and sow, seven monthe old. As we are through with our LiL-
Coln stock ram, we ofer him coln stock ram, we ofier him for sale at
A low price. Ho was bred by Capt. T. E. Robsot, IIderton, and gired by an im-
ported ram. Viaitors met at Caledonia or York stations, on G. T. R.'


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W. G. PETTIT \& SONS, Freeman, Ont. SHORTHORNS
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JAS. MoARTHUR, Goble's, Ont.
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SHORTHORNE
FOR EALE ' Choloo banl oalvoe by

R. H. REID, PINE RIVER, ONT. Pleasant Valley Shorthorns

 of good Bootch breoding; alleo several
young bow
GEO. IMMOs \& SON, Motat, ontarlo Farm 11 miles easto of Guelph. on C.P.R.,
STRUAN SHORTHORNS

 come and see my herd.

> Amprior, N. S. ROBERTSON.

BONNIE BURN SHORTH For immediate BUA. T SHORTHORNS

 For Sale - The stock bull oworntin dam Veronioes (Imp) by Brave Aroher (Imp. in reasonable
 morebutter If you can increase your butter production without any increased cost or any more work
won't it pay you to do it? And if you can get more butter from you millk with leas work, that will be still better, won't it? That's exactly what you can do if you
will do as Mr. LeITING did-buy a Sharples Tubular Separator. Here
what he says about the Tubular:

MORE BUTTER
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gets all the cream there is in the mill easy that it's not work to run it at all, and is so and keep clean that comparison is out of the question. The extra cream it gets makes the Tubular a regular All the or its owner.
All the other good money-making points are told
in book F-193, which you ought to read. Write for it today-we in send it fre to

THE SHARPLES SEPARATOR CO. WEST CHESTER, PA.

Chloage, III.

## Queenston Helghts SHORTHORNS <br> Special offer now: Several ohoioe Sootoh bulls, two of which are sootoh bulls, two of which are show bulls, a roan yearling and a show bulls, a roan yearling and a red two-year-old by Derby (imp.) $=32059=$ Their dam is Bessie's red two-year-old by Derby (imp.) $=32059=$. Their dam is Bessie's Maid $=47779=$, by the great sire Maid $=47779=$, by the great sire Royal Prinoe $=26062=$. There is Royal Prince $=26062=$. There in no better breeding. Also some young cows and heifers at low young oows and heif prioes for prompt sale.

HUDSON USHER, Queenston, Ont GEORGE D. FLETCHER, Broedor of Footoh Shrorthom
Oattle and Yorkehire Pits.




 JOHN LEE \& SONS, Highgate, Ont. | $?$ |
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| $-y$ | SHORTHORNS \& LINCOLNS The ohampion herd of Kligin

Kent and Kesex oountioes.

 JOHN EARDHOUSE \& SONS, MIGHINOLA P.O., OnI Soctoln and soeten-tiooped shorthornes, Linooln ame

 Shorthorns and Clydesdales
 JOHN MILLER, Brousham, Ont Claremont Sta., C.P.R.; Piekering, G.T.R.

HOLLYMOUNT SHORTHORM!
 (. $\begin{gathered}\text { Pure sootoh, } \\ \text { imported, } \\ \text { andi the set of } \\ \text { Imp. stook. }\end{gathered}$ 25 HEAD苞
W. J. Thompson, Mitchell P. O. \& Sta MAPLE GROVE SHORTHORNS P- Mr prean ofaing: gor -un C. D. WAGER,

Waple Lodgo Stock Farm 1 1080-1000.


a. W. SMITH. MAPLE LODGE. ONT,
 8HORTHORNS


 Six Red Shorthorn Bulls

 T. alisom,
T. GIBSON,
cossip
CURE FOR INSOMNIA. Yesterday a friend who had heard that sometimes suffer from insomnia told me of a sure cure. " Eat a pint of peanuts and drink two or three glasses of mill before going to bed," said he, " and I'll warrant you'll be asleep within half an hour." I did as he suggested, and now for the benefit of others who may be afflicted with insomnia, I feel it to be my duty to report what happened, so far as I am able this mornirg to recall the de-
tails. First let me say, my friend was right. I did go to sleep very soon after
my
my my retirement. Then a friend with his
head under his arm came along and asked me if I whted to buy his feet. I was
negotiating with him, when the drepon on negotiating with him, when the dragon on
which I was riding slipped out of hit skin and left me floating in mid-air. Waile I was considering how I should got down,
a bull with two heads peered over the edge of the well and said he would hiul a windlass for him. So as I was sliding
down the mountainside came in, and I asked bim when the train
train would reach my station. "We passod
your station four hundred years ago," he said, calmly folding the train up and
slipping it into his vest pocket. slipping it into his vest pocket.
At this juncture the clown bou the ring and pulled the center pole out of the ground, lifting the tent and ail thi people in it up, up, up, while I stood on
the earth below watching myele the eamt among the clouds above:
of sight out Then I awoke and found that I had
been asleep almost ten minutes.-[The been asleep almost
Good Health Clinic.

## CANADIAN GUERNSEY BREEDERS'

The annual meeting of the Canadian
Guernsey Breeders' Associátion was held at Amherst, N. S., during the Maritime
at Winter Fair. President Walter Mc-
Monagle opened with a short address. He referred to the large exhibit of Guernseys
at the Dominion Exhibition, commending at the Dominion Exhibition, commending
the quality of the cattle shown the quality of the cattle shown, axd
pointing out that Guernseys are coming pointing out that Guernseys are coming
to the front, both in United States and Canada.
The secretary's report of the work done in the past year showed that the Associa-
tion was in a growing condition. explained that the Dominion Department of Agriculture had extended to the
Guernsey breeders the cffer of assigtanc Guernsey breeders the offer of assistance
in connection with Record-of-Performance work. The forms of entry for this work were now in his hands, and he urged the
members to take up this offcial teeting members to take up this official teating
of their cows, looking to registration in of their cows, looking to registration in
the Record of Performance. A resolution was passed appreciative of the work of Mr. R. Robertson, Superintendent of the Maritime Experimental Farm, who, on re-
quest of the exhititors, judged the
Guernseys acceptably at the Dominion ExGuernoeys acceptably at the Dominion Ex-
hibition, at Halifax, last fall. Mr. D. Drummond, of the live-stock branch of Ottawa, said that from his exprericnce in
othe
connection with the Canadian Recond ot connection with the Canadian Record of
Performance work, he thought the Guernsey breeders had set their standar for milk production a little too high.
He thought it would be well to lower the standard for milk by 500 pounds per year
in each class, with 4 per cent in each class, with 4 per cent. as the
average for butter-fat. This would make verage for butter-fat. This would make
the minimum production for mature cows 8,ooo pounds milk and 320 poumds o
butter-fat. other classes accondingly butter-fat; other classes accordingly. Atter
discussion, a resolution was pased discussion, a resolution was passed lower
ing the standard to that suggested by ing the standar
Mr. Drummond.
The election of officers resulted as fol-
lows : President, Walter $\begin{array}{cccc}\text { ows: } & \text { President, } & \text { Walter McM Magle } \\ \text { Sussex, } & \text { N. } & \text { B.; } & \text { Vice-President, James }\end{array}$ Roper, Charlottetown, P. E. I.; Secre
ary-Treasurer, Howard Chegoggin, N. S. Directors: Jornnge Mc
Donald, Shubenacadia, N. S. Robert Donald, Shubenacadia, N. S.; Robert
Robertson, Nappar, N. S.; J. F. Roach,
Sussex N, Sussex, N. B.; Wm. R. McCready, Jack town, P. F. I. ; Mr. John Mor, Charlottelected director to act with McDonald was ioe-president and secretary as the execuMoved and passed that the Hon. Mr (sher, Mirister of Agriculture, be asked for financial aid
the ensuing year.

MILBURN'S
Heárt and Nerve Pills.


Aro a peopito for ell dingers and dit




MUEH EROVE JERSEYS MID YORKSHIIIES: For Bale ohoep, several oholoo youns britio an

 Brampton Jersey Herd For molez 10 bnin

 niliviow Hord of Prizovininind AYRSHIRE OATMPE All animale bred and onvetully coloctod for
 ait reasonnble prio
 SHANHON BMNK STOHK FRA mon AYmehince and ronkeminme

Yophe trook of both toxer for:
$\qquad$ AYRSUIRES FROU A PRIZEWHIMIIO HERL
 Oampbellifor shim. STOCKWOOD AYRSHIRES FOR SALE All ases. from imp, and Oanadin bred
stook Prices and terms to suit D. M. WATT,

BPRINGBROOIR Lout Erameve
 or cont. bution-hit in low. A fom bilion ive AYRSHIRES - Goloo atookof olither coz in remonable. For partiontringiv tion imy AMMADOLE HOLSTEIII HERD Prinoe Posch Oalamity hoeds the
herd. His dam (Oalamity and sire's dam (Alta Posoh) in official test, averaged 86 hb . mill a day, and over 26 lbs. buttor Week, one of the greatest siren living.
No stock for sale now. 85 hesi ( 20 A.R cows) will be sold at anc tion at my annual public sale, last of February. None for sale after that event, except bull calves no
catalogued nor born yet. For parcatalogued nor born yet. For par-
ticulars soe stock notes, elsewhere
in this isgue in this issue
GEO. RIOE, TIlleonburg, Ont. Spring Brook Holsteins and Tamworths Hord headed by the first-prise bu . Nanuet
Pietertjo P Pual, whoe dam and aire's dam and

 HOE A. . Hallman, Bmesiet int. HOLETEINS AND YORNSHIRES offern for salo a oholee lot of young bo

## Free Until Cured



No man need be weak, no man need suffer from the loss of that vitality which makes life worth living. He can be made strong, magnotic, forceful and light-
hearted, confident of his power both' in business and society; free from spells despondency, nervousness, passitude and brain wanderings. I I have a certain cure for
Nervovis Debility Verien Oomplaints in my world-famed Dr. Sanden Electric Belt with Flectric Suskidney and I will give it absolutely free until a cure is effected. How can I do this? For two reasongh in mank the certain knowledge that my belt will cure, and I have con fidence
en for my money until $I$ prove it. This is what every doctor should do, but I am the only one who has a remedy that will stand such a crucial
 that OR ON DEPOSIT, and if I fail it costs you nothing whatever All $\$ 5.00$. I will leay me the usual price of the Belt when cured-in some cases not cyfr cash I give full wholesale discount. Forty years' continuous success has brought forth many imitators. Beware of them. You can try the original, the standard of inustrated free until cured, then pay for it. Call or send for one to day, also my two inlustrated books giving full information free, sealed, by mail.

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nAw HOLSTEIN BULLS
 a. W. OLEMONE. OWNTRE AND HILLYIT. Goorway Hols on



Lyndale Holsteins. For Sale $A$ nambor or bbil allog foul




 "GLENARCHY" HOLSTEIN8 43 head of big, deep flanked. heary-prodacing
Holsteing, many of them milining from 50 to 6 C
the or sale A Atraisht, Young stook of both sexer
O. MACINTYRE, Reoth lot GROVE HILL HOLSTEINS-W No How offies
for Bale our Btock bull, Verbelle 4 th's Oount


 Greenwood Holsteins and Yorkshires




vergreen Farm Holsteins Prince Paulin

Morit oows with large records.
F. PARM, Burkesvillo,

## cossip. the way of putting it Two boys went to gather grapes. One

 was happy because they found grapesThe other was unhappy because the grape had seeds in them. Two men, being convalescent, were
asked how they were. One said, "I better to-day." The other said, "I was worse yesterday When it rains, one man says, "This lay the dust." " I am glad I live," says one man. "/ I "I am glad," says one, "that it it
is no worse."" I am sorry," says an-
other, "that it is no better." One says, "Our good is mixed with evil." Another says, " Our evil is mixed
with good."

## Prayer.

Let others ask for greatness and f
wealth,
Let others pray for glory and for health Let others pray for glory and for heal
I do not ask that they may fall
Who try to crowd me to the wall Who try to crowd me to the wall,
I do not kneel, 0 Lord, to beg of The That shame may come to them that scofl

I do not ask with upturned, pious eyes But give me courage, Lord, to treat My rival fairly when we meet, As long as I have faiied to do my best.
 Offcial records of 103 Holstein-Friesian
cows, from cows, from December 6th to December
26th, 1906 , are reported by the American Holstein-Friesiar. Association. Theris
can
herd herd of 103 animals, of which one-halt
were heifers with first or second calves, produced in seven consecutive days
$39,453.4$ bs. milk, dons 39,453.4 lbs. milk, containing 1, $1,359.295$
1bs. of butter-fat; showing an average of
3.45 3.45 per cent. fat. Showing an average of
The average yield for
each animal was each animal was 283 lbs milk, contain-
ing 13.197 lbs . of butter-fat; equivalent to 54.7 lbs., or 26 quarts milk per day,
and 15.4 lbs. of the best ter per week. These averages are the
thind highest yet reported for the H.-F.
breed, and are claimed to be such breed, and are claimed to be such as no
other breed has even approached. In the
aged cow class, Neah Pauline De Kol leads, with 20.653 lbs. fat from 584.6
lbs. milk, while
Rosalind Letah De Kol and Pansje Clothilde Ver
non De Kol produce above 18 lbs. fat Kirtle S. 2 nd's Consolation, with 19.089
lbs. fat from 550.9 lbs. milk, leads the senior four-year-olds. In the junior four-
year class, the record to date, for amount
of fat in thirty consecutive or fat in thirty consecutive days, is twice
brokien, first by Lady Wayne Johanna.
18.931 lbs. fat from 589.9 lbs. milk in $\underset{\text { seven }}{\text { e.506.5 days and } 79.555 \text { lbs. fat from }}$ again by Bessie Hamilton 2nd, 19.972
lbs. fat from 472.5 lbs. milk in seven
 Dlass for also breaks the record in this
clat milk in thirty days, and displaces Sara Jewel Hengerveld ; the senitior three-year lelass, Kirtle. In the
S. 2 nd 1 's
Cradock alone produces, in ares 17
bos. fat in seven days, and she also Included in the list are:
Neah Pauline De Kol 52941
$\qquad$
at, 20.653 lhs. Mners, (iardner \&
1 moty Th 18 Posch 78302, age 2 years
dilk, diys from calving 8
Milk, 323.5
9.468 lbs.
$\qquad$

## SKIN COVERED WITH SORES

DEFIED ALL REMEDIFS FOR YEARS, AND DOCTORS SAID

NO CURE.
Yet .Zam-Buk Hás Completely Cured.

So powerful are the healing enconces in
Zam-Buk that in Zam-Buk that in some cases which have worked complete cure! Such an in stance is just reportod from Iavermay, Sask. Mrs. J. M. McCormick, of that place, says: "A about seven yoarn ago my
face bioke out in rough red blotches which burned and itched and emarted iu turn almost beyond endurance. I tried almost every remedy, but they tailod give relief. Doctors told me thore was
absolutely no cure for me, but that it might outgrow the disease.
"Finally my husband ment for
sample of Zam-Buk and applifed it. our delight the portion applifed it. To our delight the portion treatod with Za
Buk very quickly healed. Wo thon tained a proper supply, and began the Zam-Buk treatment. I am now delighterd to state that after having used a
few boxes, I am free from the old troub and complately cured. I will nover be I live Zam-Buk in the house an long as skin diseases in any form troubled with waste no time in obtaining would say, Zam-Buk. Since proving it in my own ease, I have obtained a supply for an old
lady who had ulcer on ter loe for 30 years. Three toxes were sufficiog to close Zam-Buk cures cuts, burnen, bruises,
scalds, and all sking, and all skin injurieses. Appliod to well as sores, pimples, poisoned wounds, chilitch, sore back, festering and discharging wounds, etc., it acts like aharm. Its
antiseptic ingredients kill all prevent inflammation and feshoriug. Then
its healing and build up new. healthy tissue. All storee
and dru us. and druggists sell Zam-Buk at 50 c . per
box, or obtainable from the
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 consin Agricultural Colloge's. $\begin{gathered}\text { Wfthers } \\ \text { Cour }\end{gathered}$ from Fairview. Wishing yon all a joyous festive
seessone Camploell Wood ville, Ont. Hampshire Sheep $\begin{gathered}\text { For sale: : rams (importod } \\ \text { and } \\ \text { home-bred), } \\ \text { vear- }\end{gathered}$ lings and lambs. Correspondence or inspoection
invited
Station ancorn
BROS.,

## Suffolk Sheep

SHROPSHIRES GEO. HINDMARSH, Allsa Cralg, Ont Oxford Down Sheep, Shorthorn Cattle,


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TRADE TOPIC. STOCK FOOD RECOMMENDED.- Prof.
homas Shaw has this to say in reference to stock foods. ." They will always be
iound useful when whe time will when properly made. The
comer when intelligent
leeders will cease to use them.
 vantage therefrom, will become greater as
loods become increasingly dear $t$ will be profitablesiniagly to dear. Whether
to feed them will the end upon the necessity for using them on their cost. My special desire,
however, is to show that they dave
pace in the econow ing. The the economy of intelling havent fead-
ing price must be fought Bulletin and seller." be fought ratch Experimental Station, they by the - mend the use of certain medicinal tonics解

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OO. TOM NEWCASTLE HERD OF TAMWORTH\& mediate sale several choice boars read lor gervice, and bows bred and ready to breed
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 ed of them imp.

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 Totapep 5 brood boom, end
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mio improvad Chostor Whilises

 and plat or outo whur finimod



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