

Vol. XLIV


Learn Telegraphy!



The City Hotel

 Special 25c, Dinner for Market Days Hin bumier STUPP PULLERSGATME G3, 30 DAYS FRE TRIAL

LONDON, ONTARIO, JANUARY 7, 1909.
 $\underset{\substack{\text { At } \\ \text { Be } \\ \text { Rom }}}{\text { T }}$
THE CENTRAL NURSERIES







HAVE YOU A GOOD BARN ?
 Buy a BT Litter Carrier. It will save you many steps through the spring. Takes four barrow loads
at once. We have a new method of

 eight inches higher. No gearing. Track is
any fra. Write for catalogue and prices to:
BEATTY BROS.
FERGUS, ONTARIO.


## Sond Stamp for Handsome Galondar

Would you like a calendar handsome enoutith
o hang up in your parlor? Such a one is our 1900 to hang up in your parror? Such z one is our 1900 ,
calendar. The art work is distinctly hish-clase, chlendar. The art work is distinctiy high-class.
The picture, entitled "Helping Daddy," is a typl. The picture, entitled "Helping Daddy, is a typp-
cal farm scene, done in eight beautiful colors. Wo Wo ask you to pay 2 cents postage simply as a proof
that you value a picture of reat firtisto merto and An mix
 he calendar will reach you. Ad
TROSTAWOOD Smithis Falls Canada. posive for whi 2 ent Canada. - me by eariliest pos a copy
calendar.


No. 850


The Metallic Roofis Co imamacruazes Torontor and Winnlpes


OUR LATEST VICTORY.


Results obtained at the Shelbroohe and Otime
 CHAMPION EVAPORATOR.

When Writing, Mention This Paper.

THE FARMER'S ADVOCATE.



W
E want everyone who has not yet experienced, the delight of owning and listening to an Edison Phonograph to go to some dealer today and hear the Edison Phonograph play. There is only one way to know how good the Edison Phonograph is and that is to hear it. Nothing can describe it.
The Edison Phonograph reproduces all sounds, and especially the sounds of the human voice and the music of at it struments, so marvelously that you would be amazed at is a its wonderfu! work.
The Edison Phonograph makes all music available in your home. The cost is triffing. You can buy it at once for a low price or on the instaiment plan, paying a litle at a time, and begin to enjoy it at once. The point is to get a to There is an Edison dealer near you who win of the many show you how it works and let you hear some of the

## Edison Amberol Records

These are the new Records which have just been made to play on the
Edison Phonograph. They play more than twice asionas as the old ones and play far better. This is the fast great discovery of Mr. Edison for the bene
fit of his favorite invention, the
dison Phonograph, and for your benefit it fit of his wise enioutito get on wriicon Phonograph with the Amberol attach ment at once. An Cclison ruonograph with the h mberol attachment plays There are thousands of selections already made up in the old Records wich you can enjoy, and there wild
many new ones every month in both the old Records many new ones every mon
ond the Amberol Records.
PREE Go to your dealer or write to us today and get
 We- Deiricr Good Live Dealero to sell Elicon PhonoDeple in every town where we are not now well represented.


Whition=1 Phonograph Company, 112 Lakeside Ave, Orange, N.I., U.S.A.


1951

H. C. Baird, Son \& Co. MANUFACTURERS OF


Brick and Tile Machinery. Yard Supplite
Write for Catalogue.
PARKHILL, ONTARIO.



## For Roofing, Siding or Ceiling <br> POSITIVELY THE BEST AMD MOST LASTIMG COVERING MADE.

 Requires no painting. Economical and easy to put on; no previlous experienoe nebessary.Bry



 PAINTED STEEL ROOFIIG AT \$I. 25 PER HUNDRED SQUARE FEET. Also in stock a foll line of painted Steel and iron Roonng, siding and Coling, all styles
at prices from 81.250
per 100 sq
 ROOFING SUPPBIES OF'EMERY KHRE

 FREE BOOK OF BUILDIXA MATERIAL! Iowfl pat yoo in tooch with the mon
 Wo Brom Our Geofls at Shopims', Rioce/vore' and Mmanefacturere' Saloe CHIAAEO HOUSE MRECKNE GOMPANY
36th and Iron Streets,


Take.down
Repeating Shotginn Marfin repeating shotguns are guns of perfect proportions, made in
12 and 16 gauges, with simpler mechanism than any other repeater. They have the Marlin solid top
always between your head and the cartridge, the side ejector, and the
closed-in breechbolt that, keeps out rain, snow and sleet, dirt, leaves, twigs,
 and to the comfort and convenience of the
shooter.
The Model 16, 16-pauge




Before buying a gun,
lust get our
136-page
 cy return mailfor ${ }^{3}$.
btemps postage.
The Mlartin Nrearms Ca, 113 Willow Street.

## NOW READY!

order a copy to-day.
The Scottish Farmer Album
With which is incorporated THE FARMING This popular farmers annual is everywhere recogs
nited as standard work of reference to the agricul
tural and airs of the year. The illustrations. reporotural affairs of the year. The inlustrations. repro
duced from photographs. include stl the princtian
 articles. writen by experts, and of
culturists in all parts of the world.
Prices, including $\left\{\begin{array}{l}\text { In paper covers. } \\ \text { postage }\end{array} \mathbf{2 0}\right.$ cents.
In
stiff
boards.
34 cents. Send a money order to-day (do not send The Publisher.
"The Scottish Farmer 93 Hope Street, Glassow, Scotland THE SCOTTISH FARMER, published weekl. the recagnizad oricultural of the Clly lyesdale, Sborthorn,
Ayrshire and other pure-bred stock, and circulates Ayrshire and other pure-ered stock, and circulat
throughout Canaz and the states. Annual sub-
scription, $\$ 306$ pavable in advance. When Writing, Mention This Paper

Are going to get a big share of the Wire Fence and Gate business in 1909, because we have the best and strongest farm fence made anywhe
WIRE and IRON FENCES and GATES. Get the SAMSON FENCE Agency, and you will have pleased customers and
a profitable business. Now is the time to get our terms, and good proposition to agents.

The Locked Wime Fence Con, Ltd HEAD OFFICE:

HAMILTON, ONT.

$\square$


STOCKMEN

| Hiln |
| :--- | :--- |



## LAND FOR

 SETTLEMENT !Lands are offered for setilement in CENTS per acre, in various dis-
tricts in NORTHERN ONTARIO. tricts in NORTHERN ONTARIO.
Write for information as to terms, Write for information as to terms,
homesteed regulations, special railway rates, etc.
mom. james s. DUFF.
Thos Southworthi

## 100 Men Wanted



Columbla Hay Press Co'y. knesvile, ont.
Boys for Farin Help Tho Eavercto
 min

管

## Souvenir Post Cards

 The loveliest picture post cards ever views. Only 20 cents a dozen. In the store they sell them at 30 cents.C. W. Kreutziger, Waterloo, Ont. DEPT. $X$
Subscribe for "Farmer's Advocate"


## GOING IT BLIND

Those who persist in using second or third-rate mothods in skimming milk are groping along at heavy cost.

## DeLaval@ream Separators

 THE EYE OPENERSDemonstrate the Profits in the Dairy Business.
WE WILL BE GLAD TO HEAR FROM YOU
The De Laval Separator Co.
173-177 William Stroet
MONTREAL

## For the Progressive Man

A FAIRBANKS-MORSE GASOLINE ENGINE WILL DO YOUR WORK QUCKER AND CHEAPER THAN SEVERAL MEN.

A GOOD, STRONG, LIGHT, DURABLE, ECONOMICAL INGINE SEND FOR ILLUSTRATED CATALOGUE

The Canadian Fairbanks Co., Limited
444 ST. JAMES ST., MONTREAL


THE FINEST QUALITY. PRICE VERY LOW TO-DAY. ASK YOUR DEALER.

Be sure and get Rennie's XXX X -in sealed bags.
Wm. Rennie Co., Toronto



International Horse Show. The International Horse Show of Chi-
cago was held from December 7th to the 10th. In splendor it excelled the livestock exhibition which it succeeded, the
crowds that daily thronged the amphitheater were greater, but the show itself in public interest was far below that of
the event of the week before. A horse show in the United States is a dual show in the United States is a dual-
purpose institution. It is a display of
horseflesh and horsemanship on one hand horseflesh and horsemanship on one hand
and the center of the elite of fashion on
the other. A novice might have difficulty in discovering which of these pur poses a show aims primarily to serve
At Chicago, the equine aristocrats of the continent assembled, glittering in trappings and appointments, to entertain the
elite of the American fashionable world, elite of the American fashionable world,
the multi-millionaires with their friends of the East and West. The show pre-
sented the highest products of the breedsented the highest products of the breed-
ers' skill side by side with the latest ers' skill side by side with the lates
creations of the Parisian costumer, Which was the most essential of the two to success depends largely upon the point
from which the affair is viewed. Fashionable society patronized the Chi
cago show and graced the International cago show and graced the International
pavilion with its presence, but the stockmen and farmers, all but those who were
required to remain to look after the anirequired to remain to look after the ani
mals still on exhibition, went home. Al mals still on exhibition, went home. Al
the stock shown the week previous was
held over for the horse show and the show opened each day with a parade
the prizewinning drafters the prizewinning drafters. One hundred
and thirty horses, representing the cream and thirty horses, representing the cream
of the draft breeds of England, Scotland, Relgium and France, were daily massed in groups about the arena, marched round and round. presenting a pageant such a
has never before been seen in America. The value of the animals called daily to the ring, according to their owners' valu-
ations, aggregated over a million dollars, ations, aggregated over a million dollars,
which would mean \$10,000 per head
Nothing like putting on the price ! Nothing like putting on the price !
Eixcepting those of Miss K. L. Wilkes Galt, Ont., who made a small exhibit there were no Canadian horses present.
of American exhibitors, Alfred G. and
Res. Reginald Vanderbitt and Judge W. H
Moore, of New York, were the chief Moore, of New York, were the chief
The Truman Stud Farm, Crouch \& Sons of La Fayette, Ind., and a number
other breeders and importers of less note made exhibits, the latter two getting a
fair share of the money in certain classes fair share of the money in certain classes
For the rest, it was largely a contest o For the
wealth.
The principal event from the standpoint of the average draft-horse breader, was

the determining of honors in the six-in hand contest. There were three contest | $\begin{array}{l}\text { of Clydesdales, and Armour and Swift, } \\ \text { with Percherons. } \\ \text { These three entries }\end{array}$ |
| :--- | with Percherons. These three entries

were shown daily during the progress of were shown dany the week before, but
the International thers
judging for the honors came on Tuesday night of the week following. Two of the Armour horses were of the famous team
which that firm sent to England in 1907 . that won the International six-in-hand prize in 1905, 1906 and 1907. The Morris horses that defeated them this
year are a collection of prizewinning Clydesdales. Two of them are said to
be the champion geldings of England, two were champion geldings from Canada
and the other pair the best geldings and the other pair the best geldings o
Clyyde breeding which the Morris people
could prochen could purchase in the United Stapes.
The six-in-hand contest is the great event of the Internatioual draft harness classes
It is won this year by the Clydesdales Throughont the different sections lead ing up to the final event, honors were
divided, with the advantage a little in favor of the Clydesdale blood.
The single class to halter, weighing from 1,500 to 1,750 pounds, was stronger
than usual this year , the competition ing entered into by the leading importers
and breeders with some very worthy specimens of breeding mares. The awards
were :

## 1. Morris \& Co.. on a Clydesdale geld-

 1. Morris \& Co.. on a Clydesdale geld-2. Finch Bros., on a Shire mare.
ing. McLay Bros., on a CI cladesdale mare.

Tydesdale entries of mares again furuished the competition for the geldings. The winner was found in a five-year-old
gelding, Tom, a new addition to the Morris aggregation. This horse is said be a cross-bred Shire-Percheron, and while not possessing the massive proporions and draft character of the old-time wear the honors quite as well. The 1. Morris \& Co., on Tom. 2. Swift 1. Morris \& Co.. on Tom. 2. Swic
\& Co., on a Percheron gelding.
Morris \& Co Morris \& Co.., on Drem, a Clydesdale gelding. 4. McLay Bros., on a Clydesale mare. 5. Trumat Pioneer Stud, In the class for pairs, lightweight, 3,000 to 3,500 pounds, to wagon, the 1. Swift \& Co., on Percheron geldings. 1. Swirt \& Co., on Percheron geldings.
2. A. G. Soderberg, on Clydesdale muras.
3. Norris . Co. on Clydesdale geldings. 3. Morris. Co.. on Clydesdale geldings. L. N. \& O. B. Sizer, on Shire mares.
The pairs of heavy drafters over 3 . 500 pounds presented some keen competitions, the Armour entry of Percherons winning
easily over the classy Clydesdale pair of easily over the classy Clydesdale pair of
wheelers shown by Morris, and the wellmated pair sent forward by Swift \& Co. The exhibit of three horses abreast to
wagon had only three entries, the Morris aagon had only three entries, the Morris
Clydesdale geldings winning easily, ArClydesdale
mours next with Percherons, and
with \& Co. third, also with Percherons. In the class for fours, the Morris
Clydesdales had an easy win, with ArClydesdales had an easy win, with Ar-
mour second, and Swift third.
Morris \& Company started in 1900 to Win this honor with an outfit of six imported Clydes, and they won it four years
in succession. Then, in 1904, the blue ribbon went to the Percherons on a team if six which the Pabst Brewing Company, of Milwaukee, gathered together regard-
less. of cost, and trained to win. In 1905, the Armour people entered the field
with the six-in-hand that has defeated everything opposing them until this year,
when the drafters of Scotland reach the When the drafters of Scotland reach the
premier position again. Prof. w L Carlyle, who judged at Winnipeg this

When Mark Twain was a young and Struggling newspaper writer in Sang Franone day with a ciyar-bor under saw him ooking in a shop window. Mr. Clemens," she said, "I always see
you with a cigar-box under your arm.
I am afraid you are smoking too much. I am afraid you are smoking too much." ing again." Two little darkies had gone walnutting, thing else about them that would hold huts, they started for home. Passing a
cemetery, one suggested that they gin cemetery, one suggested that they go inthis the other agreed, and thereupon the two lads climbed the fence, dropping two Walnuts outside as they were doing so
Piling the walnuts in a heap, they proceeded to makuts a division. While they were thus engaged a negro came along
the road, and hearing voices in the tery, stoped to listen. An Ad this is
what he heard. "Ah'll tak' this one," "Ah'll tak' that one"; "Ah'll tak' this one," "Ah'll tak' that one"; "Ah'll tak'
this one," "Ah'll tak' that one." The
tarky's eyes began to bulge. "Foh de darky's eyes began to bulge. "Foh de
law's sake," he suddenly exclaimed, "de
debbil and "de debbil and de Lawd's dividin' up de folk," and taking to his heels, he fled down the
road. Aloozt a mile and a half away a
white man rushed out and checked him anite man rushed out and checked him
as he sled. "Hold on there," he shout-
ed. "What's the matter? "What ed. "What's the matter? What are you me, boss, don't stop me, I mus' get away from hyah,", wailed the frightened negro.
"But what's the matter?" pursued the
White man. "Oh, de debhil White man. "Oh, de debbil and de
Lawd's back in de cemeter' up dar divid. in' up de folk. Lem'me go, lem'me go."
'. ${ }^{\text {I }}$ Here, that won't do. You will have to come back with me you will have
tee what is going on," said the white man, and tak-
ing him thy the collar, he forced the
darky to retrace his steps. When the two reached the cemetery the woices were still going on: "Ah'll tak' this one,"
"Ah'll tak' that one." Then suddeny
one said: "Now we'll get the two out-
side, and we"ll be done." "And they do
In the ciass for the big single mares o
geldings weighing over 1,750 pounds, th
entries were more numerous than in any

# Che Farmer's Y Pdvocate 

Persevere and Succeed:

## and H(ome Mragazine

Vol. XLIV.

## EDITORIAL.

## Growth by Expression.

We grow by expression." A vast measure American writer. Absorbing knowledge as a sponge soaks up water, may in time possess one of quite a wide range of information, providing he has a good enough memory to retain it, otherwise it will leak out nearly as fast as it soaks
in. The best way to commit facts to memory is commit them to paper in one's own words, revising and correcting as may afterwards be revising and correcting as may afterwards
necessary to insure accuracy of statement. careful writer informs himself by writing far more thoroughly than he can possibly inform his reader. The reader reads and forgets; the writer forget master facts in a way that he will not soon must give it forth
Merely as a means of fixing facts in the memory, therefore, writing is of rare value. But it does far more than that. It stimulates brain activity, and develops by exercise that most im of what would it avail facuties, expression ty stored with knowledge if his mouth mere rich and his hands paralyzed so that ho could motion or write? It is the faculty of expres sion which gives current value to knowledge and thought. It follows, then, that anything which cultivates the art oi expression is educative in a
high degree
Writing and spealing do thic high degree. Writing and speaking do this. The more one thinks, the better he is able to think. The more he writes and speaks, the more valuable
and helpful do his writings and speeches become and helpful do his writings and speeches become, unless he allows himself to degenerate into rected and controlled expression makes for effirected and controlled expression makes for effi-
ciency of thought, understanding and influence Give of your best thoughts if you would make room for others. Speak and write whenever suitable opportunity presents. Take part in discus sions oi an elevating character, and thereby broaden your own mind. Clarify and crystallize your ideas by committing them to paper, that they may take clearer and more definite shape Nebulous thoughts become much clearer and more tangible in writing. Relate your experience that ourseli. Make use of the corrospondence column in the agricultural press. Give forth of your best ideas. Help, that you may be helped by your own helpfulness. Grow by expression.

## Protecting Our Climate.

> welcoming a public disposition to return to and make the most of those distinctiveiy northern healthful sports and carnivals, so well suited despatch firm Ottawa the other day announcing despatch from ottawa-be other day announcing doing their best to discourage the advertising of winter carnivals in Canada, one being quoted to this effect
. Any literature, exhibition, or any other
thing which tends to create the impression that Canada is an extremely cold country is very hurtful in the work carried on by our officers in other countries. You will remember the great prominence given to Rudyard Kipling's poem Uur Lady of the Snows, and ce opme tit Many of those best abe to jur Dominion It is hard to believe that so much squeamish ness concerning the facts of our glorious winter
season could still remain, even anoong the immi-

LONDON, ONTARIO, JANUARY 7, 1909 No. 850

ration officers at Ottawa. The explanation probably lies in an over-anxiety of the officials to nake a large showing in numbers of immigrants, of quality and adaptabint hiverv impressions and even withhold the facts from possible candidates. The futility of such a course is obvious, for the facts will out, and if people come to us with wrong impressions of our minate, the comptaints on seing undeceived are解 Noreover

Moreover, supposing we do secure extra immiland of sunshine and summer heat, are we not likely to attract some who will prove ill-adapted o conditions: some in short wham we would be better without? Hardiness, vigor and adaptability to our conditions are far more to be pre ferred among immigrants than large numbers. Of course, there is, no doubt, a degree of forco in the Immigration Department's protest. No doubt, the Canadian climate has been libelled treally is. But is not candor the best polia? Why not let the facts be heralded forth as they are? Why exercise censorship over the utter ances of the papers and the business policy of those having to do with our winter attractions? Is it not time to cease protecting the facts, but rather to publish them far and wide? All the world knows we have a winter, and it is not a liory in and know how to make the most of it Outdoor exercise and frosty outdoor air have no terrors for the rugged Canadian. He revels in It. Let us make the most of our winters. People ho do not like our winters had better not come

Give us Fresh Air.
Speaking of climate, we have much to learn yet in Canada about how best to meet winter days. open fireulaces, and unless walls, ceilings and foors were fairly well built, strong drafts were set up across the living-room. These were not only unpleasant, but, if too free, they lowered the temperature to an uncomfortable point, except just in front of the fire, and even there one's feet
might be warm, while his back was chilled by draits.
Under these circumstances, it was not surprising that our forebears should seek to build their houses as snug and tight as possible, thinking
that if they only shut out the cold air it was all that if they only shut out the cold air, it was all
that was required. They overlooked two very important principles: First, that heat may be lost from a room without any exchange of air whatever, just as water may be cooled and frozen in a tightly-corked bottle; and, secondly, that introduction of fresh air is necessary for health of the animal system. In order to keep a livingroom or stable sunitary and healthful, there must be provision for admission of pure air and egress of foul, respired air. It is much better that this exchange of air shoura be accomplisted by the in thas ofsence of this chinks and crevices are belter han no air inlots at all, even though they do sometimes cause uncomfortable drafts. In fact. we would be much healthier were we to reduce the temperature of our living-rooms by more copious admission of fresh, pure air, and in th1s connection, the importance of sleeping with the windows open cannot be too strongly insisted upon. Scientists hate discovered that con and germ disease, and
the hot, vitiated, germ-laden atmosphere of our living-rooms. Arctic explorers who pass several successive winters sleeping in snow-houses and
open air, without even a sign of a cold, invariably succumb , without even a sign of a co, warm, germ-infected houses of civilization. Consumption is nowadays treated by the fresh-air method, while even pneumonia is most successfully combated in cold, tented enclosures on the roors of hospitals in New York. No one need be arraid of cold, pure air, it is the foul air or uove the bed-
dwellings that is to be feared. Pile on the ber clothes, and sleep with windows up at least the height of a fly screen, and keep the whole house abundantly and constantly aired. Gusts of fresh, cold air will not hurt a healthy person who is used to them. When your feet get cold, do not warm them under the stove or over the register. Warm them by exercise, thus improving the circulation. When you go outdoors, do not shrug your shoulders and bury your head in your coat collar. Breast the storm, step out boeay, taalthy
long breaths. Be hearty, and thus keep heal and strong. The Storm King conquers those who fear and quail before him, but on those who throw out their chests, breathe deep, and laugh at him, he wreaks his furies in vain.

Away with hothouse conditions. Let us spend winter as it ought to be spent, toughen ourselves by judicious, habitual exposure, get fresh air and sunlight into our houses and stables, and let man and beast enjoy the outdoor air

## Remodelling the Farmhouse

 Much has been written for these columns in recent years on the subject of remodeling old more comportable, sanitary and convenient, and to economizing time and labor, but comparatively little has been written about improving the old farmhouse, with the same objects. There are many good old houses in the country are likely to last for generations, but which are far from being arranged for comfort or convenience in working. The head of the house does not hesitate about making radical changes in his barns to suit his purposes, but too seldom thinks of the need of alterations in the house to lighten the work for his wife and daughters, and to make it more pleasant and comfortable for those whose time is mostly spent within hrs wals, wind and has the freedom of the Celan observation has proved that. in many cases, decided improvements may, at a moderate expense, be made in the internal arrangement of some of the rooms in an old house, rendering them much more convenient. while a cement fioor in the cellar is a health-preserver and a rat-excluder, and a veranda or porch not only adds much to the appearance of the house, but may sur onlls if used for the purposo or inauging in the enioyment of the greatest degree of good health and the mention of baths brings to mind the general absence of the bath-room in old farmhouses, a comfort which might in many cases be provided, at a moderate expense, by a simple rearrangement of some partitions. The water supply in the house might also, in many cases, be made as convenient as in the arrangement of the modern cattle barn, proving a great saving of time and a real comort to the women their work. The vanishing of the farmer's woodlot brings to mind the question of economicalheating of the house, which may well engage the heateng of this contemplating improvements
the Farmer's Advocate
and Home Magazine.
the leading agricultural journal in the


London (England) OrFick;
2. THE FARMER'S ADVOCATE AND HOME MAGAZINE

in Canada. SUSSCRIPTION.-In Canada, England, Irelar,

- TERMS OF SUBSCR
and Sootland, \$R.50 per Pear, in advance ; $\$ 2.00$ per year whe,
not paid in advanee United States, $\$ 2.50$ per year; all othcr
countries iss; in advance.

explicit order is received for its cesired by law.
arrearages must be made as
- THIB LAW IS, that all subscribers to newspapers are held respon-
sible until all arrearages are paid and their paper ordered to be
aiscontinued. RES should be made direct to us, either by
Money Order or Registered Letter, which will be at our risk.
When made otherwise we will not be responsible.
\%. THE DATE ON YOUR LABEL shows to what time your

2. ANONYMOUS communications will receive no attention. In
every case the FULL NAME and POST-OFFICB ADDRESS MUST


| Eide of the paper only. |
| :--- |
| sa. CHANGE OF ADDRESS. - Subscribers when ordering a change |
| of address should give the old as well as the new P. $\begin{array}{l}\text { a address }\end{array}$ |



 THE WILLIAM WELD COMPANY (Lnerted),
$\overline{\text { or changes in the old house, as well as those ar- }}$ ranging to build new ones, as it is quite prac ticable in the case of most old houses to instal a
heating furnace in the basement. These hints are thrown out with the hope that our readers may
consider them, and that those who can alford it may be led to adopt some of the suggestions of to a discussion of the subject in our columns by those of our readers who have adopted any of
these improvements in old houses or new ones, and who are willing to give others the benent of their plans and experience
hich those swer. Replies to any or all the questions will be
$\qquad$ What did you have stan what change
2. Have you a water system, bath-room and
closet in your house ? How is it arranged, and what did it cost to instal?
3. How is your house ventilated ? Give de tails and cost, if possible. . How is your house heated. Give cost of
4. Hed
installation and amount of fuel used per year.

Insulation and Ventilation.
In building our houses and stables, economize ing double walls, them, or else lining chilling of the stable
from the walls, in order ing temperatures $\qquad$
$\qquad$
$\qquad$
$\qquad$ strong a draft.

Prevention of Disease.
" An ounce of prevention is worth a pound of
cure," is an old adage not lived up to by a good to state that at least filty per cent. of the ailments in flocks and herds are due to improper handling or to injudicious feeding. All too often Fresh air is an essential to sound bodies. When
live stock are crowded into comparatively small stables, not equipped with ventilation systems, steals in around window frames or through doors bound to be affected in one way or other, with evil results. It may be that disease does not beas they would be if plenty of fresh air were prosumed cannot reasonably be expected. while his herds and flocks requir protection from be kept in thoroughly-ventilated stables and pens He also has learned that liberal rations of mixed or of concentrated diet, given regularly, are neceither in environment or in feeding, are avoided. the animal is put, and work done each day, are
factors that receive due consideration. It is only by making a stuty of requirements of the
by suiting the food to the reat
animal, that the results will be satisfactory. The
$\qquad$
$\qquad$
A Citizens' Vigilance Committee.
$\qquad$
$\qquad$
$\qquad$ mittee," and was formed about 1902 , at which
time considerable horse and petty thieving was
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Who is the Typant?
Editur "The Farmer's Advocate":
There is a letter in your issue of Necember ". Pro Bono Publico," which contains many mispass for truth without him giving some proof
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
A Kick from the "Cow.'
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
in an article., the duty should be taken ofi that
G. BEFR.
Wellingt once. Co., Ont.

in horses?
A ? suppose it is the disease called cerebro-
spinal meningitis, or it may be influenza. No spinal meningitis, or it may be influenza. No
doubt, it is due to something in the water supHly, stabling in unventilated places an
vitiated air frequently causes such diseases. (2. 1s there any cure for lockjaw?
A. Yes, in many cases special treatment with
a serum (antitatanic serum) will effect a cure. a serum (antitatanic serum) will eflect a cur
Q. Would you prefer alfalfa to clovers? A. Yes, in conjunction with other foods. It
requires intelligence in feeding, and must not be given in excess, particularly if damaged by frost
or poorly cured.
study diseases and prievention. A lengthy and costly experience with horses the horse-breeder should know horse diseases and measures that would result in avoiding them.
Farmers know that horses should be regularly watered and fed, and that they should ret palawatered and fed, and that they should get pala-
table and nutritious food, but too often they did not put into practice what they knew. another
mistake farmers make was in testing a home remedy, and when the horse was beyond recovery, rushing for a veterinarian, and then saying he
was incompetent when the animal died. An attempt to fatten a horse in 24 hours, or feeding on Sunday, generally caused lymphangitis. Joint-ill was said to have caused the loss of more money value in horses than any other one dis-
ease. In former years he had lost several foals, but he had listened to a practical talk on this disease several years ago, and since then lost but one. He did not think a colt could contract the
ailment before birth-not before the cord ailment before birth-not before the cord was
broken. The use of antiseptics and cleanliness in the stalls prevented it. Heaves, though notle, could be alle-


Her $\cdot$ Majesty 5 th of Cullen
Purebred Aberdeen-Angus heifer, two years old. Winner at the Smithfield Fat-
stock Show, 1908. First and silver cup tor best heifer, and champion plate
Countess Dowager of Seafield.
viated by judicious feeding. Dusty hay, or, in
fact, liberal supplies of hay or other bulky dry fact, liberal supplies of ha
food, should be withheld TREATMENT OF Allments
How common ailments can best be treated,
Has dealt with by Dr. J. Hugo Reed, of the On tario Agricultural College. Chronic indigestion tended to by a competent man, administering a purgative, and perhaps a tonic. Acute indigestion and flatulent and spasmodic colic were difficult to distinguish in the early stages. For the 4 ounces, was a good dose. It might also be necessary to give belladonna, or to repeat the dose. Spasmodic colic, in most cases, required
no treatment; the trouble passed off in short time. If it was found necessary to treat, a dose of lincture of belladonna, tincture of opium and sweet nitre, about 1 to $1 \frac{1}{2}$ ounces of each, would
svit. Aconite was an unreliable remedy. Large doses killed quickly, while small doses hastened death, unless the heart be strong. However, when this drug had stood for a time it lost its
strength, and had little more effect than water. strength, and had little more effect than water. Some horses are subject to the ailment. ases are known where horses become affected with it on changes of feed, or when watered after eat
ing. How does the pulse act in spasmodic colic?
During the spasm, up to 50 or 60 beats,
while the normal is 36 to 40
(2. What medicine can not be given to preg absolutely necessary Treatment be withheld. ministering a purgative of 8 to 10 drams of aloes and 2 drams of ginger, followed by 4 drams
nitrate of potash night and morning. Application nitrate of potash night and morning. Application
of heat to the swollen part was good. exercise and precautions as to prevention should result in permanent cure. the best treatment lay in absolute rest and comfort as soon as the symptoms
were noticed. The administration of a purgative was good practice.
Q . How often should a horse be watered? he wants a drink. If he is not excessively hot, he can be allowed to take water comparatively freely. As a rule, it is best to water before
meals, and not after. (Custom and regularity has meals, and not after. Custom and regularity has

## Profit from Handling Horses.

When working on the farm with my father-I think it was in the fall of 1877 or 1878 -I went o a farm sale one afternoon, and bought a suck-
ing foal for thirty-one dollars; (hat was the beginning of my career as a horseman. Since that, try sold very good horses, and buried just as sold some very good horses, and buried just as
good. I kept the filly referred to unthl she was rising three years old, and then sold her for one I always like
Ihe first winter of their lives, as I think they do the first winter of their lives, as I think they do
better. I run them loose in a box stall. I had one colt two years ago in a box stall; fed it two

sell. I ready to always
sell them at three or our years old. I sold
a three year-old to go a Three-year-old to go heavy work. If you
can get the size, moes a long was to I have bought weanling colts from twenty dollars to as high as one hundred and ten dollars, and made as much out of the twenty-ditar
the one at one hundred and ten dollars. I usually mate them.
On one occasion I bought a colt which I had never seen, though I knew how it was bred.
Horses were a little flat at the time. I paid thirsy-five dollars, and sold it and its mate when rising four years old for four hundred and fortyfive dollars. On another occasion I paid eighty
dollars for a pair of two-year-old colts. That dollars for a pair of two-year-old colts. That
was in the fall, and the following spring I sold one of them for what I gave for both. They were heavy colts; I never buy anything else
In all my experience, I have bought only on In all my experience, I have bought only one
light colt, although I try to breed light ones, as well as heavy.
I never have any trouble disposing of horses. When I buy a colt or a horse which I want ro
sell, I am not long in selling. I always sell on the farm. I do not get any fancy prices. The the farm. I do not get any fancy, prices. bine
highest price I ever received was $\$ 2 \pi 5$, that being
or a two-year-old colt. I have been offered more,
and taken less. and taken less.
In all my experience in breaking colts, I have never had any trouble. I I have worked them at two years old. I find. it a good plan, if you have
two two year-old colts, to work them half a day two two year-old colts, to work them half a day
about. I farm only one hundred and eight acres, but, to give you all my experience, would make a but, give you all my experience, wourd. RIDDEI
little book.

Speedy Stroke
Hackney mare strikes each of her knees with the opposite foot. Her knees are both enlarged.
How can the thickenings be reduced, and how can the striking be prevented? Would it be advisable to whip her for it
This is called speedy stroke or speedy cut, but at the same time it does not indicate that the animal is speedy. Whipping will do no good; in fact, by the excitement and fear it would cause it would have a tendency to mate is due to faulty conformation. Horses which stand with their knees quite close, knockkneed horses, are predisposed to speedy stroke, oven though they may stand with their feet straight. The usual cause is an ill conformation that causes a horse to turn his toes outwards when standing. In these cases the feet roll inwards during progression, and the shoe is liable
to strike the opposite fetlock, cannon, knee, or to strike the opposite retlock, cannon, knee, of action. In many cases the conformation is all right down to the pastern joint, but in others a faulty can-
formation is noticed from the fetlock joint, the pormation is noticed from the fetlock joint, the pastern with a decided out-turning. In other cases this deviation can be noticed from the knee. outwards, 'soldier toed.
Various manners of shoeing have been tried without marked success in remedying the faulty action. Placing the toe calk about the length of itself inwards on the shoe will sometimes check
it. Some recommend a shoe, the internal half of which is much heavier thnn the outer half, on the principle that when the foot is elevated the
weight of the inner half will have a tendency to lower the inner part of the foot, hence prevent striking. Others claim that the opposite method, viz., making the shoe heavy on the outside, gives
better results, but neither method, so far as I have observed, has given satisfaction. Shoeing
with light shoes has a tendency to keep the feet with light shoes has a tendency to keep the feet
below the knees, while the use of quite heavy shoes has that of carrying the feet above the
knees, either of which removes the tendency to snees, eituer of thich removes but as height of action with either light or heavy shoes varies according to the speed at which the animal is driven, either method may
prove ineffective. Different methods of shoeing prove inenective. Difierent methods of shoeing cording to the peculiarity of conformation and action, hence each animal's peculiarities must be many cases the most careful and intelligent sh ing will not correct the fault, and all that can be
done to prevent the repetition of the injury is to done to prevent the repetition of the injury is to
wear knee boots. The enlargements already ex wear knee boots. The enlargements alreaus extinues. If the striking can be checked the daily application of a little of the following liniment odide of potassium, and 4 ozs. each of glycerine and alcohol. Apply a little once daily, w smart friction.

Fitting the Shoe
As this is the time of the year when many wil be getting their horses shod to do their hauling ng to them- You have, no doubt, seen the blacksmith fitting the shoes to horsses' feet, when he would first heat the shoe to a red heat
then place it to the foot and burn a bed. hen place it to the foot A wise farmer will forbid this if he wishes to
save his horses feet, for of what use is a horse whose feet are gone?
Did you ever heat the stove hook and just touch it to the top of the thumb nail for an in-
stant? No ? Well, just try it once, and then stant? No no ite nust be for the horse to have that hot shoe burned on to the foot. So much for the feelings. Some blacksmiths will tell you
that is the proper way to get a smooth bear that is the proper way to get a smooth bear-
ing for the shoe. so a fory man, but
if you take my advice you will make that man if you take my advice you will make that man use the rasp, instead. Just watch the thumb
nail where you touched it with the hot stove hook nail where you teuched it with the hot stove hook how hard it is. Just so with the hoof, which is of very much the same nature. shall be glad if it does, and I should especiatly
like the opinion of "Whip." HORSESHOER.
Sask.

## No Toy Watch

Toy watch, but a satisfactory time keeper in in every way. It puzzles me how you can alford to giv so valuable a premium for the smand matter of cate," I may say it requires no recommendation
it speaks for itself. it speaks for itself.

## LIVE STOCK.

## Our Scottish Letter

Time is on the wing, sure enough. The great
fat-stock shows both in Great Britain and the Western Continent are over for another year, and Christmas is in sight at time of present writing. Guelph and Amherst meetings, and nothing would give him greater pleasure than to renew the experience. There must be many changes in the
six years, and improvement surely will be marked Reports have not come to hand while we write and, therefore, we know nothing of the results a dian visitors returned some months ago, and ar exuberant in their'praises of your great Domin ion. One of them. who possesses the gift of a sen tentious wit, remarks, regarding the younger gen see them "cut less dash and more thistles." Ap. parently, he was not impressed with the condition of the land and pastures in your Province. He "cleaner." autumn, I can express no opinion on the subject My experiences were confined to the winter months, and then Canada proved her title to be
the "Lady of Snows." But there was nothing unpleasant about the snows, and Canada must be a fine place in which to live.
At the Farmers' Club great banquet in London, on Tuesday evening, lec. 8th, I saw the
Hon. Sydney Fisher, your Minister of Agriculture and Dr. Rutherford, your Veterinary Director General. 1 do not know the object of their present visit, and possibly may never learn, but, no
doubt. it may be connected with the present foot
are high than he does when other conditions pre
vail. If he buys his stores 9 cwt. of at 25 s . per cwt., and sells then at 12 cwt., a 30 s . per cwt., he makes ${ }^{2} 6$ at 9 cwt. each, at 35 s .
but if he buys his stores at 9 per cwt., and sells them fat, $12 \mathrm{cwt}$. . at 4 4.s. per
cwt., he makes $£ 85 \mathrm{~s}$. of gross profit. It follows cwt., he makes $£ 85 \mathrm{~s}$. of gross pront. It iollows
that, in cattle-feeding, as in everything else, there is greater profit when prices are moderately high than when they are too low. The cheapness which beggars my neighbor rarely profits me. It
is best for both him and me when prices are reasonably high.
british fat-stock Shows.
The great Fat-stock Shows in this country are burgh and London. The most successful, Edin this year are Aberdeen-Angus cattle and their crosses. The champion animal of both London Majesty V of Cullen House, the property of Countess-Dowager of Seafield, whose extremely competent manager is Mr. Lewis Beaton. Her Majesty V. is a typical specimen of the breed, be bone, and having no superfluous loose fat smal her whatsoever. She was champion of the feedAbg classes at the Highland Society's Show at opened he in July, and when the smithrield Show The reserve champion at London was Danesfield Fortune, the Norwich champion, an Aberdeen-
Angus - Shorthorn cross, and weighing 1,696 pounds at 1,086 days. She is a wonderful heifer Daisy V., from Garbity, Fochabers, an exceptionally bonnie animal, and champion of the Short horn breed at London. The best steer at London was another cross-hred named Jack, like by Mr. John Ross, Mill
craig, Alness, Ross-shire and also an Aberdeen He weighed near 220 pounds heavier than the ge, but was not quit so firm as she, and car ried rather more loose tlesh. One of the fines
steers in the show was a Galloway, shown by Messrs. Biggar \& \&
Dalleattie. H en,
was Dalbeattie. $\underset{\text { champion }}{\text { He }}$ ef was
breed, and was almost, if no quite, the first animal in the show to be sold. H weighed a little over
1,680 pounds, and sold L50, which works out at something like seven
pence per pound, over-

Yorkshire Sow
Winner at Smithfield, 1908, of arst prize in class, and grand championship as best
fold at an average pr
of $£ 40$ apiece to London apiece to leading loway and Highland beet and-mouth scare. The condition of things here and the cattle of these breeds are always among
is rather critical. The IBoard of Aericulture have the frst is rather critical. The Board of Agriculture have the first to be sold in London.
only scheduled the states south of the lakes in
Interesting as the classes for animals on hoof which disease has been scheduled. I notice that are in respect of educational value, the best secyour authorities regard the situation as extreme tion of the show is the carcass competitions. The
iy serious, and are sparing no pains to keep Can- animals are stalled on the Saturday evening, and ada clean. I have no doubt you will succeed. Where there's a will there's a way, and Canada is undoubt At the dinner, and ing to keep its record clean. deputation on the following day, Lord Carring ton made it abundantly evident that his Depart
ment will not schedule more than is absolutel necessary. He is not going to schedule the whole
United States and he posal to make the whole forcign further the pro trade in dead meat
old Country feeders' Argument.
This plea for dead-meat imports only, is a
avorite one with many in this country It sound logic behind it. The feeder here has to buy his stores in a restricted market, but he has
to sell his beeves in competition with the world He, therefore, pleads: "Give me a iair chance If I am to buy in a market from which stores irom oversea are excluded, let me sell in a mar
ket from which beeves imported alive are excluded ket from which beeves imported alive are excluded
I do not object to the importation of dead meat chilled beef or mutton, or beef or mutton carried in cold-storage I am prepared to face, but the
live animal fat is unfair competition, when live animal fat is unfair competition, when I am
prevented getting the live animal lean." Lord Carrington is not impressed with this argument, and in his blunt, straightforward way says he will have nothing to do with the end
aimed at. The home feeder must, therefore, work a way as best he may. With beef at current prices. he has little cause for complaint, and it is
a curious fact that a feeder makes better profits
when prices of stores are high and prices of fat
nimals are stalled on the Saturday evening, and are open to public inspection on the Monday o
the show. They are removed at five o'clock that evening, and slaughtered during the night. The carcasses are thrown open for inspection on the Wednesday afternoon, after they have been judged
as carcasses, and those who saw and marked them alive on the Monday can then test their judgment by the results. The carcass competi-
tion is for cattle, sheep and pigs. The ion is for cattle, sheep and pigs. The champion ross from Ireland. Its live weight was 1.166 pounds, and its dressed-carcass weight 753 pounds. It made a bonnie carcass of meat. The got by a Galloway bull, out of a cow half Ayr shire, half Galloway. This steer was placed first at the Edinburgh show in the previous week in a Monday of the Sinithfield show was placed second by his judges. His live weight was 1,325
by pounds, and his dressed-carcass weight 861 pounds. He was nearly one year older than the
champion carcass, which was less than two years quality, therefore, a model of early maturity and quality of flesh. It may be worth recording the carcass or crosses which proved successful in ing two vears old, the order of merit was : (1) Aberdeen-Ancus--Dexter, (2) Aberdeen-Angus bull-Wherdeen-Aberdeen-Angus cow, (3) Shorthorn heen-Angus, (6) Shorthorn-Aberdeen-Angus, (7) owir three vears oll (1) Galloway bull-- Ayrshire
Galloway cow (2)

THE FARMER'S ADVOCATE
neerdeen-Angus-Shorthorn
Angus bull-Shorthorn-cross cow, (1) Aberdeen
(5 and 7) Welsh. Heifer, not sexcedi the old : (1) Aberdeen-Angus-Highland, (2) Aberdeen Angus-Shorthorn, (3) the same, (4) Galloway Aberdeen-Angus, (5) Sussex, (6) Aberdeen-Angus.
It will thus be seen that, except in a very few cases, every one of the prize carcasses were either Aberdeen-Angus or Aberdeen-Angus crosses. The supremacy of the black polled breed in the beef
world could not be more conclusively established. In the sheep section of the carcass competition, the champion award went to a Suffolk, whose reserve champion was a Southdown. The highest price was made for the Suffolk, which sold for 9 S . per stone of 8 pounds, or 1 s . $1 \frac{1}{\text { b d }}$. per pound.
The next highest price was made by Cheviot muton, which sold for 6 s . 6 d . per stone of 8 pound or 9 d. per pound. The following details of the sheep breeds and crosses in the carcass competition may interest: One pure long-wool wether
lamb: All the five prizes but one went to Cheviots, the exception being second prize, which went to Kentish. For the similar type of sheep above 12 and not exceeding 24 months old, fourth, which went to a Welsh wether. For lamb of the short-woolled type, the winner was a Sufthe Southdown was h. c. and com.. and a Hamp shire Down was second. For a wether of similar type above 12 and not above 24 months old, the prizes went to the Suffolk Arth, and all the other the favorites and leading prizewinners were Suf-folk-Cheviots. In the wether class, Scots
(Rorder-I eicester-Blackface
crosses) $\underset{\text { gray- }}{\text { were }}$ faces (Border-

The champion and reserve champion pork car asses were Berkshires.

CLYDESDALE EXPORTS
Clydesdale exportation has been quite brisk during the past month. Canadian buyers were
slow to arrive, but when they did come they took away quite a large number of horses and mares. Several old friends were here, and some new
friends; and, on the whole, the Clydesdale season for 1908 has closed not so badly. The re-
sults of the year, in respect of breeding horses, is sults of the year, in respect of breeding horses, is
to leave matters very much as they were. Baron's Pride (9122) easily reigns supreme among ulydesdale sires. Hiawatha (10067) comes next, and then sons of Baron's Pride come in, with Royal Among the sons of Baron's Pride, the three which show up best are Baron o' Buchlyvie, Everlasting and Revelanta. These were all noted horses in the show-ring, and it is a striking fact that
should be the best distinguished at the stud.
The new regulations for admission of horses
free of duty into Canada are curiously puzzling. free of duty into Canada are curiously puzzling. her produce to land, because their breeding, although sufficiently recorded for the home stud-
book, did not meet the requirements set forth in your regulations. The mare and foal were,
therefore, brought back here, as they are more veluable in this country than they would be in anada after duty had been paid on them. But he extraordinary thing about this tansactor customs demanded duty have been numbered in the Na-
ional Record Office at Ottawa, with numbers in ional Record Office at Ottawa, with numbers in
he Canadian Studbook; and not only so, but the animals named in the record of their ancestry, Which cannot be numbered in the home Studbook, and fees demanded for their registration. The was legitimate to give numbers, it was surely egitimate to admit duty-free. If it was not registration of the back crosses in the home Studhook, surely it was an extraordinary thing to cive these back crosses numbers in the Canadian
register. From conversation with gentlemen from register. From conversation with gentlemen from
Canada, I gather that much ignorance prevails Canada, I gather that much ignorance prevains Chey mean, and the relation between the National
Record Office in Ottawa and the Clydesdale Horse society organization in Toronto is the most puzling problem of all. Breeders on this side have on objection to the regulations imposed in Canda, 20 far as they understand them, but the exlucidity, and something wants clearing up. Possibly the thing may be due only to the clerical ror of a clerk, but it har took his mare and froceeding for the shipper, who took his mare and duty, which, seeing the animals were given num-
leers in Ottawa. surely ought not to have been bers in Ot
demanded.

Time to renew. Do it now. Send one or two
wv names with your own, and help to extend

How are Your Stables Ventilated? Ventilation is, without doubt, the most press calculated that a horse must draw into and forc $\mathbf{o n t}^{142}$ of his lungs, on the average, each hour, some the sheep 30 , and the man 18 cubic feet. if it were necessary to supply air to our stock as we do water, the horse would require continuously 7 full pails of air per minute, the cow 6 , the pig
2.3 , and the sheep 1.5 , according to Professor King. This air, once breathed, has lost much o its oxygen, which is to say much of its sustain ing power, and when mixed with the remaining
air in the chamber it dilutes the oxygen, thus rendering the whole atmosphere less efficient in maintaining the vital processes of the body While animals can live in the vitiated and mois ture-laden atmosphere resulting from partial con
sumption of the oxygen supply, they will not do as well, and are more susceptible to diseases notably, tuberculosis. The health and well-doing of our stock demand constant, or at least periodi
withdrawal of the respired air, and constant in fusion of fresh, oxygen-laden air from outdoors Incidentally, this ventilation removes disease germs, deleterious odors and vapors, and mois
ture from the animals moisture not only improves hygienic conditions, but contributes to the durability of the timber and lumber in the barn.
the problem that remains is how best conceded, plish the object. While much has been published in "The Farmer's Advocate" on this subject
there is room for more, and an experience meeting there is room for more, and an experience meeting
through our columns this winter could not but be helpful. We particularly desire experience with the King, Rutherford, Grisdale and muslin- curtain
systems, but experience with any method will be systems, but experience with any method will b
welcome. Early answers to the following ques
Eat tions are accordingly invited

How are your stables ventilated
What did the system cost ta
What did the system cost to instal ? Give 3. What, in your mind, are the benefits of ventilation, and what advantages has your 'par ticular plan?

Farey and Lymphangitis.
I have the honor to acknowledge receipt o
in your letter, with attached inquiry from a corre spondent, who states that a friend of his has a
cure for farcy, and inquires whether there is any law against his using it and charging a fee for his services.
In rep
.
In reply, I beg to state that the liability individuals practicing veterinary medicine of
surgery depends, of course, upon the legislation surgery depends, of course, upon the legislation
obtained by the veterinary profession in the Province. In some of the Provinces, any in-
dividual who poses as a veterinary surgeon is dividual who poses as a veterinary surgeon is
liable to prosecution, but so long as he does not falsely represent himself no action is taken; while in other Provinces, surgery and treatment o maladies affecting live stock for a remuneration
by any other than a qualified veterinarian, is for
bidden. I think, however, that the former renot definitely sure regarding this point. The so-called cure for farcy in the letter in
question does not to my mind warrant serious consideration, owing to the fact that the term farcy" is applied by laymen to a number of
pathological lesions which are due to varied and totally different causes. Correctly speaking, arcy only applies to a form of glanders affecting he superficial lymphatics of the skin, and maniesting itself principally upon one or more of the
limbs of the horse. This, of course, is not only an incurable disease, but is one which is included in the Animal Contagious Diseases Act, with hith this Department deans. According to the pelled, under penalty, to report any such cases to the nearest veterinary inspector, or to this Department.
Lymphangitis in horses is often termed by laymen, farcy, which is quite erroneous. This dis-
ease is caused, generally, by feeding too large rations of grain, without giving the animal reguar and careful exercise. It is also, less seldom,
caused by injuries. This condition is easily overcomed by prompt and vigorous treatment, but is liable to recur again if careful measures are not adopted in the feeding and care of the animal.
When this malady has recurred several times, it results in new formation of the tissues on the limb or limbs, which rarely if ever afterwards assume their normal condition. The new growth of
tissue, which is evenly distributed along the greater portion of the limb, in many cases assumes large proportions, and produces the conaition known as elephantitis. This condition is For Veterinary Director-General

## THE FARM

## Clover-seed Midge

The clover midge (Cecidomyia leguminicola) has been very bad in most of the clover-seed-producing sections this year. Unquestionably, it fering with the yield per acre, and in the interuality of the seed. In many sections, more especially along the lakes, there was never greater promise of a good
rop, as evidenced by blossom, than obtained thi year. Alas, too frequently appearances prove deceptive. It has been so this year, and the screenings from cleaning up the clover seed reveal very largely of the insect in the pupa stage, and re quite scarlet in appearance. The life-history of this insect, briefly stated, is, that a small fly ays the eggs in the clover blossoms. The first brood do it in June, the second brood early in
September. The eggs hatch into small red larver which use the plant food which is being transformed into the seed. Clover seeds will be be noticed as only half-filled. The larvee, when fullgrown, descend to the ground, and hide under the
loose soil or any rubbish, and when the time is


Hampshire Down Yearling Wethers
ers.
right and the conditions are favorable, they tur into the little fly, which lays the eggs again.
From a knowledge of these facts, it would ap pear to be wisdom on the part of every farme pear to be wisdom on the part of every farmer
to burn all his screanings, in order to prevent these reddish pupe from turning into flies next June again.
It has been advised, and is often practiced in
many clover-seed-growing sections, to pasture the many clover-seed-growing sections, to pasture the the middle of June, when no first brood will have had a chance to
head is forming, the same effect whill be obtained This is humbugging the midge, and is quite lawful. The trouble is that everybody
it, and so the trouble is perpetuated

The presence of the midge has depreciated the value of the seed generally this season. In clean ing up such seed to make it No. 1 seed, there wil
of necessity be a big tare. It will be wise to of necessity be a big tare. It will be wise to
plan against the ravages of the midge for anothe plan against the ravages of the midge for another
year.

Hunting, Mining and Agriculture in Northern Ontario.

```
Having Fint of
```

Parry Sound District, I thought perhaps a fev
notes of observation on the country generally
might be of some interest to those who have
never been in these wilds. Simply passing
never been in these wilds. Simply passing
through in a railway carriage gives one ratner a
poor conception of the country. When one has
tramped for miles and miles through thickets, up
and down ledges of rock, climbed over fallen
trees, wallowed through thick tamarack or cedar
swamps, waded through beaver meadows wit
grass up to your head, then, and not until then
the deer roam at leisure.
Some are inclined to think that only pro
fessional and business men need or should engag
fessional and business men need or should engage
in the sports of the chase; but why not the
in the sports of the chase; but why not th
farmer ? Has he not equally as mood a ripht to
farmer? Has he not equally as good a right to
enjoy this sport? Is he not entitled to a rest or
change from his everyday labor ? Why not, if h
so decrees, shoulder his rifle and join one of the
many hunting parties that annually wend their
many hunting parties that annually, wend thei
the pure, life-giving air, a change of scenery and
work, camp-cooking and all, cannot fail to do
anyone good. When one returns from such an
outing, he is certain to enjoy, as never before
the comforts of home-life. Even though on
may make long and tedious tramps in quest of
one of those nimble and fleet-footed beauties, and
one of those nimble and fleet-footed beauties, and
returns to camp weary and hungry, he is assured
genuine rest is in store for him, and his craving
genuine rest is in store for him, and his craving
appetite, that all hunters are subject to, can soon
need holidays, it is farmers, and they, possibly, of
all others, take the least. Those who may have
no desire, for the chase, should take a trip oo
nasionally somewhere. It cures the blues that
casionally somewhere. It cures the blues that
some are subject to, as well as many other ail-
some are subject to, as well as many other ail-
ments, and fits one the better for work, and
makes life generally much more pleasant. Those
makes life generally much more pleasant. Those
who year in and out give all their attention to
k, and never think of taking a holiday, ar
generally the ones who are ever complaining of
the hard work constantly staring them in the
face, and scorn the idea of having time for a
holiday. I sav, brother farmers, it will pay
everything considered, to occasionally take a trip
and see how other people live and work. If a
man travels, and keeps his eyes and ears open
he can always learn something
topography of Parry Sound District, which is
very similar throughout in many respects. It is
a land of lakes and rocks of every conceivable
dense forest of large pine and other trees, some
of which fell victims to the woodman's axe, but
much has been destroyed by repeated fires, so that
little of the original growth remains. The tall,
dead pine trees, reaching heavenward, are left as
a silent witness of the havoc wrought by the fire
fiend. These denuded, tall, dead pine trees are
a sight to be witnessed an over chis northern
country, largely from ocean to ocean. The loss
to the country has been immense, and still it goes
on from year to year. These fires are caused ac
on from year to year. These fires are caused ac-
cidentally by the scattered settlers, the tourists
or
or prospectors, the puring long-continued drouth
when once started, they sweep over large area.
with great rapidity, uncontrollably.
only a small percentage of the country wil
ever be adapted for agricultural purposes. Por-
tions might be reforested; while some of the lakes
and streams are stocked with desirable finny
tribes, others have none, or worthless varieties.
tribes, others have none, or worthless varieties,
Here is an important problem for our legislators
Here is an important problem for our legislators
to consider: What an enormous quant
o consider: What an enormous quantity of fish
might be produced from these numerous lakes to
feed the hungry
feed the hungry!
These wilds are cerlainly well-adapted, ideal
places for the deer, and with the protection they
now receive, will, I trust, be spared for many
years, thus affording the sportsman an annual years, thus affording the sportsman an annual
opportunity of gratifying his desire of the chase. While there seems to be a great waste of land in this region, it is being sought alter more every year; it has a mission oo fill. It would be diffiing the summer months, with such pure, healthgiving air, and untainted, sparkling waters, and
an endless field for angling, boating and hunting an endless field for angling, boating and hunting. Is there any wonder, then, that so many from
our cities, as well as from the United States, with increasing numbers annually, spend their holidays in these "Highlands," avoiding the
sweltering heat of the cities? Some live in sweltering heat of the cities? Some live in
tents, many having neat little summer cottages, that can be discerned in some cosy, out-of-theway place along the many beautiful lakes or streams. Fishing, boating and hunting afford a
variety of the most healthrul amusements for those holiday and pleasure seekers, as well as those in quest of health. Iy the aid of a guide,
one can traverse all these northern refions with ne can traverse all these northern regions with a canoe, by making, generally, only short por-
tages. What a scope here for the leisure-tourist tages. What a scope here for the leisure-tourist
to explore-new and varying scenes opening out before him from day to day.
Having a desire to see and know more of the country recently onened up by the Canadian Northern Ontario Railway, I, at the close of the ion of Sudbury The northern part of Parry
tound District and Nipissing District, as we passed up through it, presented a more favorable aspect from an agricultural standpoint: Much less snow, a log-house or two now an.. Then, and
small clearings, in this yet recently-opened-up
country


One Gets the Stocks: the Other the Money
ledges of rock so conspicuous in l'arry, sound are
seldom seen. The beautiful little lakes, lending a harm to the country, are not wanting. Sudbury, the metropolis of a large district,
and an interesting, prosperous and modern, up O-date town, boasts of $4,0(0)$ inhabitants, and dffords shelter and a resting-place for your humble servant. One appreciates good hotel accommodathe backwoods. Sudbury such an agricultural country. Vegetables of all kinds are grown quite extensively, as well
as hay and grain, beef, pork, etc. It is comparatively quite new, and the iminense demands from the mining and logging camps, the surrounding locality is not yet able to supply. Farmers produce. sudbury is of course a mining town situated in Sudbury is, of course, a mining town, situated In the midst of mines-the richest in the world
It owes its existence to the construction of the body speaks French, as much as though in French settlement in Quebec. The French, follow-
ing up the construction of the (C. F. R., have held the place ever since. In a cut of the C. p. IR near here was first revealed the immense treasures concealed in first regions. The immense and apparently inexhaustible supply of nickel ore found about here at-
tracted the attention of scientists of all countries. It was evident that Canada was destined to supply the world with nickel at no distant date. The pound, and, on account of the high price. its per articles. When it was learned that Canada could supple all the nichel required al cents per

Since the use of this metal has been found to to
Since the use of this metal has been found th
of great value as an alloy with steel, to imm,
its quality, the demand has preatiy increm its quatity, the demand has greatly incre
and, no doubt, much other use will be found and, no doubt, much other use will be found for
it. It is already being largely employed with steel in the manufacture of steel rails, for britig and stronger
The nickel industry of the world to-day is con-
trolled by a powerful syadicate, against whio trolled by a powerful sydudicate, against which no
ordinary company can compete. Those who have thought themselves fortunate in owning nickel mines, find they are worthless against this powerful combine. The cost of extracting the nickel
on a small scale cannot compete with this largely On a small scale cannot compete with this largely-
financed concern. There has been much money invested in these so-called rich nickel mines that will never return to the investor. The same ap plies to hundreds of mining and other companies,
those organizing the company and putting those organizing the company and putting the
stock on the market invariably faring the best. So many farmers have fallen an easy prey to these "oily-tongued," " get-rich-quick " agents, That others should profit by their sad experience.
If farmers have any surplus money, they can usually invest it to good advantage in the improvement of their farms and buildings, or adding modern conveniences, that they may the better
enjoy life. This, in the end, will be found more enjoy life.
profitable.
The mining district of Sudbury extends 20 by 40 miles in extent, and, while nickel is mining king, other minerals, such as gold, silver, copper,
iron, etc. are also found in considerable abund

About twenty miles to the north of Sudbury formerly known as the Moose Mountain, there is springing up a town, with mushroom rapidity,
called Sellwood. It is here that recently a rich iron-ore mine was located. After whe nic \&
Hamn, the railway magnates, who are the fathers of the C. $Q$. R., made an inspection of the lo-
cality, they were not long in cutting a way through the dense forest and laying steel rails.
so that to-day the cars are run to the mines and loaded with crushed metal for transportation to
the smelters. The diamond drill has been put the smelters. The diamond drill has been put
down over five hundred fieet, and the bottom of
the ore not renched. the ore not reached. The almost solid mass
iron ore is about one and a quarter miles i
length and of length, and of varying widths. Gates, of Phila-
delphia, who is largely interested in the iron in-
dustry of the United States. has estimated that the amount of ore here alone would supply the
requirements of the world for one hundred years. The abundance of ore and the ease of mining will headquarters.
Traces are yet left about sellwood of the
original forest of pine and other trees, much of original forest of pine and other trees, much of
which was destroved by fire, and now is being
reforested, the tall, straight trees being so close together that it would seem impossible to pene-
 the mines. facts to tell about the early history of this sec-
tion, and how and why these minerals chanced to be here. They toll us, away back in the dim,
misty past, when the earth was set in its infancy long before it was fitted for man's habitation part. These eruptions and preat upheavals that
part We now see traces of are relics of those ages The earth was then in a plastic or tholten con-
dition, and certain minerals having an aly one another were brourdt having an alluity for them here and elsewhere. The geological history us, began in very early times sudbury, they tell tive of what is known as the Huronian period antiquity.
The country about Sellwood srems well adapte for The country about Sellwood stems well adapted trate into the far northern regions informed me that the country for probatly, one hundred
miles north of Sellwood was heavily wooded an would, when cleared, be a good agricultural section, and bevond that the broad prairie, resem-
hling Manitoba, and that in time millions of buchels of wheat would be marketed millions o apparently what would be marketed from those
repcions The ( 1 . R. has already done much to decelop this northern section, and when they have
the connecting link completed with their extensive

Wiectarn sistem all Westorn sistem all over the Northwest and Rritish "olumhia (now about 560 miles yet to build), | I this country, They will also open up new sec |
| :--- |

$\qquad$

JANUARY 7, 1909
The Best Bapn Fpame. Editor " The Farmer's Advocat
Every farmer who thinks of building is natuof ventilation, and best barn frame, as well as many other good points, but unless he gets thes three requisles comfort and lots of worry in return it may not occur to him that of these three the last is by far the most important, for either o the others may be changed in later days to suit
his ideas, but the frame must remain as it ishis ideas, but the frame must remain as it is-
either a collection of huge timbers, unsightly and weak in every joint, or a nicely-proportioned arch truss, rigid and securely bolted at every intersection.
We

We have discarded the old wooden bridge frame for the modern steel one, and the old-style house
frame for the balloon frame, and why not sub trame for the balloon frame, and why not sub
stitute the plank for the timber frame? What the steel structure is to the bridge, and the bal frame is to the barn. Many predict that we will be using steel in our barn frames in a few years, but if this system of wood frame were as widely known as it shouls
be, the days of the steel frame for this purpos would be a long way in the distance. I hav heard farmers say that steel would be the ideal
frame, because if the barn were burned the frame would still be good and could be enclosed again but if any of these men had ever seen a steel structure after a fire their ideas would change considerably, for a more hopelessly twisted mass
would be hard to find. for a given frame would be very much more than plank for the same structure. After considering these points, I think we may come to the conclu city skyscraper, our simple farm barn frame is best built of plank.
quite apparent from to the old timber frame quite apparent from several standpoints. Firs and the same saving in work, framing and rais ing. Next in strength, it fur surpasses the old-
style frame, being rigid from the long braces and well-proportioned truss construction, where ever is securely bolted and sp draw bor are loose and braces slack. In nearly every cas these braces are simply put into shallow mortise
without pins or bolts, and so can only resist con pression of the frame members. These braces be come worn by the movement of the frame, and loose by the shrinkage of the timbers, and in a
few years the whole structure is creaking with every windstorm, and in many cases has to be strapped with iron to keep it together. The splices are also a fertile source of trouble, and at her: while a plank splice is easily made of same strength as a whole-length piece would be
But when we come to consider the joints, we find
the great advantage of the modern method over the old one. Here we have, for example, an $8 \times 8$ in. side post, 16 ft . long, with innumerable girth mortises, and a large $3 \times 8$ in. tie beam mortise, With at least aree holes ior 1-in. pins throug timber almost $50 \%$, besides making an ideal spot for decay to ruin the timbers.
To make this same mortise-or, more properly speaking, to ruin this timber-has cost quite a
amount of money in laying out, boring, chiseling Now, on a plank-frame post, we would simply lay two planks together with our tie piece b tising, adzing, making of pins, etc., required, and this tie piece is put in right at the top of the the roof while the mortise joint must be kept down from the top one or two feet, and very often more, thus increasing the liability of the Cimber breaking from additional roof thrust, oc
casioned by snow or wind load. asioned by snow or wind load. planks below the
The space between the side prent tie piece is left open for circulation of air, except at points where girths spike on; here a short By comparing the amount of material in these
By posts we can more easily see the difference in cost: Timber Frame Post-

1 piece $8 \times 8 \mathrm{in} . \times 16 \mathrm{ft}$., at 12 c . per lineal $\$ 1.92$
 Timber Post
Plank Post
Saving
By this we can see that on one post a saving
of \$1 is effected, rnd I may safely say that, out
side of rafters and joists the same saving is made

THE FARMER'S ADVOCATE.
hroughout the frame. And, as before stated, the saving on work is in about the same proportion. tention of the prospective builder is the liability


Round Cement Silo
On the farm of David Lawrence, Oxford County, Ont.
while a properly-constructed plank frame, by its the diagonal ties make the strongest possible end The klank frame. basements, being much cheaper than stone or concrete.


These barns can be built with gambrel, mansard or ordinary pitch roof, and are also an ideal form of frame for skating rinks, lumber sheds,
exhibition buildings, etc. ALF. A. GILMORE. Huntingdon Co., Que

Building Round Cement Silo.
We studied the silo question for years before we fully decided to build-went to see quite a were all well pleased with their siloes and with ensilage; so we decided to build a cement silo, 14
feet diameter inside, as being the best for a hundred-acre farm. We drew in all 43 loads of gravel, the most of it in the winter on the sleigh;
a considerable portion of the loads would a considerable portion of the loads would go
about $+\frac{1}{\$}$ of a cord, a few were not over $\ddagger$ of a cord. We let a job of building the silo at $\$ 2$ per foot, we to furnish one horse for the cement mixer and a man to help. The first ring, $2 \mathrm{ft}$.6
in. was 2 ft. thick ; in it a great many large in., was 2 ft. thick; in it a great many large
stones were used. The next ring was about 13 in. thick, and there was a gradual taper until at $37 \frac{1}{3}$
ft . high the wall was only about 6 in . thick. We ft . high the wall was only about 6 in . thick. We
dug out the foundation as low as the stable floor, dug out the foundation as low as the stable floor,
and built the silo about 12 ft . from the barn, and thus we have a room about 12x9, with cement walls and cement floor, in which to mix feed. We have a chute from the barn into this room, where
we push out cut straw as we require it. The we push out cut straw as we require near this chute, and when the wind blows we cut up a sup-
ply of straw and have it handy, ready to put ply of straw and have it handy, ready to put
down. We built a circular roof, made a ventilator of $2 \times 10$ cypress plank, 3 ft .8 in . high, octagon and bevelied on edge-it was 2 ft . inside; the rafters are nailed to this. There is a gothic at the west side and a window with six $8-$ in th
10 -in. lights, to open on hinges, to admit the blower. The chute on the east side extends to another gothic, which has also a window. We can thus go up the ladder from the feed room to
the top of the silo, and ${ }^{\text {walk across two planks }}$ over to the west side of the silo. The chute is 2 ft . 4 in. $\times 3 \mathrm{ft}$. 2 in. The roof was sheathed opposite, and then all the wide ends put at the eaves, and then shingled with B. C. cedar shingles. The chute was lined with $V$-matched hemlock, and the ladder is of $2 \times 4$, in. elm, with whiteeash rungs. We have a room above this feed room to be used
for holding chop or bran, or as an overlow granary, as occasion may require. We will have a spout to the feed room below, so that the chop or bran can be let down. The feed room has
cement walls, and then the granary part above is cement walls, and then the granary part above is
studded and lined with $V$-matched hemlock, and has a door and a window. The ventilator on
silo is covered with wire netting, to keep out the prows, and has a galvanized top; we also put sparrows, and has a galvanized top; we also put
on a lightning-rod, made of 4 or 5 strands of No. 9 wire.
The silo and the feed room and granary above
cost in all not less than $\$ 280$, besides our own cost in all not less than $\$ 280$, besides our own
work. There were 55 barrels coment used; the work. There were 55 barrels coment used; the
gravel was rather fine, and we had to use a little

feed room and feeding passage is made of 2 －in． strips，to allow the warm air from stable to pass
through，and keep out the poultry．Two rings were built in，on the outside wall of silo，about
midway between the ground and the window，to midway between the ground and the window，to
fasten the blower－pipe to，and 10 bolts were built fasten the blower－pipe to，and 10 bolts were built
in the wall at the last to bolt the plate to wall with． With．far，we like the silage very well．The cat－ te eat it greedily，and have a good appetite for
straw．Some years ago I was in Geo．Rice＇s barn，looking at the silage，when a man came along and said to me，＂Taste it，it will give you an appetite like a hired man＇s．Some object to give the cattle a goon appetite．Stakes from four to six men to load the corn on the wagons；but
these men could not do more than shock up that these men could not do more than shock up that haul to the barn；whereas，once in the silo，it is ready for use without any more bother．I do not see any reason why the cement silo should
not last 100 years at least．I might mention not last 100 years at least．I might mention
that we put seven acres of a very heavy crop of
corn into the silo，and it was filled to within 2 corn into the silo，and it was filled to within 2
ft． 6 in．of the top．In ordinary crops，I think ft． 6 in．of the top．In ordinary crops，I think it would hold from
Oxford Co．，Ont．

Some inquiries have recently been made re－
carding the clover－seed midge，and some anxiety expressed by clover－seed growers，owing to the pres－ ence of the maggots of this insect in recently－ threshed clover seed．It is gratifying to know that in every case the mapgots in the samples forwarded
to the Central Experimental Farm．Ottawa，this autumn．have all been dead and dried up；con－ sequently，there would be no advantage in de－ stroying，by burning，such material．At thresh－ ing time，however，if er practice to have all screen－
ticed，it would be good，
ings swept up and burned．

had ever tried corn．It is said Mards tried corn，with good result．
Muskoka，Ont．

## Alberta Creameries

C．Marker，Dairy Commissioner for the Proy
ince of Alberta，has issued his report on th work of the Government creameries for the sum mer season of 1908．As compared with last year
the number of patrons has increased，the total output has increased，and the price obtained per pound for butter has increased．The steady in－ crease in price，from $\$ 18.61$ to $\$ 25.43$ ，during th than local causes，as the price of all staple and general commodities is，but it is clear that the steady advance is due partly，also，to the steady growth in popularity of the product，owing to its
uniform excellence and good keeping qualities Whiferm excellence and good keeping qualities at 20 cents to the trade，laid down in Montreal， the price of Government creamery to the trade Was 26 to 27 cents in Vancouver，with an easier
freight．The market still is local and in British Columbia，from which，also，a considerable quan tity is shipped to the Yukon．
The following table shows
The following table shows the points at which put．Innisfail leads，as it has for some vears It will be observed，likewise，that the industry is confined to the district between Olds and Wetaski－
win，exclusive of two stations at Vareville Vermilion
While these figures show the progress of the Government operations，it must be borne in mind that the private creameries are also growing step Station Inds ．．．． Tindastoll Red Deer
Evarts
Blackfalds Lacombe Earlent Ferry Bank Wetaskiwin
Rosenroll Rosenroll
Vegreville Bonnie Glen Vermilion
Stettler $\underset{\substack{\text { Stettler } \\ \text { Lakeview }}}{ }$ Lakeview
Conjuring Rimbey $\underset{\text { Lamerton }}{\text { Spring Ia }}$

| Patrons |  |
| :---: | :---: |
| 157 |  |
|  |  |
| －．．．． 125 |  |
| 49 |  |
| 79 |  |
| 81 |  |
| 69 |  |
| 89 |  |
| 47 |  |
| 29 |  |
| 27 |  |
| 7744 |  |
| 62 |  |
| c．i．．－．．．．51 |  |
|  | 51 49 |
|  | 52 |


| ounds | Val |
| :---: | :---: |
| nuf＇ | Cream |
| 63，656 | \＄16，243．9 |
| 115，056 | 25，539． |
| 90，951 | 23，172 |
| 87，585 | 22，368 |
| 26，012 | 6，611 |
| 45，728 | 11，657 |
| 4，970 | 1，191 |
| 42，196 | 10，711 |
| 38，714 | 9，869 |
| 44，554 | 11，332 |
| 20，124 | 5，028 |
| 26，564 | 6，725 |
| 5，085 | 1，218 |
| 5，949 | 1，488 |
| 20，200 | 5，093 |
| 17，113 | 4，311 |
| 26，938． | 6，899 |
| 22，915 | 5，781 |
| 20，148 | 5，103 |
| 19，303 | 4，88 |
| 32，480 | 8，17 | Butter

It is strange what creatures of habit we are and how the tastes we acquire in our early days affect ouve reached years in such matters，even aiter w have reached years of discretion．No doubt many
a person of mature age remembers the highly－ colored and sharp－fiavored butter which was his daily portion，possibly at each meal，on the old home farm．In after－life，and as they go throug coupled with memories of the old home associa tions，makes them cherish and preserve their taste for that particular quality of butter，in
spite of the knowledge that the more discriminat ine butter consumers of the present day prefer milder article in every way．On the other hand
there must be a lavge maiority of people who there must be a large maiority of people who
have no such tender reminiscences，and whos tastes are made or marred for the moment by luck to be served with．Rut．no matter how taste for any snecial article of diet he accuired，
there is aenerally some outstanding circumstance or experience which fixes an ideal on our palatef
which remains with us to our lives＇end，or until which remains with us to our lives＇end，or un
a more pleasing sensation of taste supplants it． Thus it is with the ordinary consumper of but ter：he is looking for something which past ex
perience tells him will suit his taste，but he cenerally nrepared to yield to a more seductiv
tickling of the nalate，and that at short notice Knowledge of these facts will very materially assist the buttermaker to arrive at a standard
for although he may have lingering memories for although he may have lingering memories of
what＂．mother used to make．＂vet his training
and dairy eduration to standards of diverse markets sonality in the matter of taste is ohliterated an he becomes in this respect more or less of a market renuirements．
Here then is maker＇s judement－a standard of perfection．Thes lact two words were promnted sorfection．Thes
secend thought，they seemed superfluous consumption the idea that increase in consumption must necessarily result，the nearer or，but to create a larger demand by means a something a little better．
A＂standard of perfection，＂then，is the basis if judging butter，and the basis of this standard and may be forgiven；but bad flavor，never． In practice，the usual maximum of 100 poi．．ts may be adopted，with the subdivisions in genera points；color， 15 points；salting， 10 points finish， 5 points；total， 100 points． The buttermaker＇s practice in scoring butter is
necessarily limited，but valuable experience be gained by merely scoring his own product may when fresh－made，and just before shipment．Each churning may be scored before being put into the efrigerator，and no trier need be used．An in acturing operations taking into consideration the same time the quality of the cream received its subsequent treatment，the size and shape of the butter granules，the churning and washing packed moisture content，etc At this point flavor is not，relatively，of as much importance as it is later，sav，in three or
four davs＇time，or when the butter is shipped out．Fach churning may he butter is shipped ly，and the number and score entered in the record book．The afternoon before shipping butter，one package of each churning should be re－scored， it frequently will be found to vary considerably from its first scoring．
As already has been explained，flavor standards
vary，but for an ideal，let me suggect that sweet， rich，creamy flavor remindful more that sweet herbage than the starter can，more of freshly drawn summer milk than highly－acid cream so uggestive or atthorat
plug after a week＇s stor the clean break of the best judged when the butter is being packed，and one would rarely have to go back on his original Color can scarcely be judged accurately until being taken out of storage．The chief desidera－ specks in color is evenness－no mottles，streaks or indicative of a good grain and absence of always milk．The particular shade or color must accord Much applies to scoring salting
Much applies to scoring salting that has been until the butter is a few davs old，and grittiness owing to undissolved salt，is quite possible for a ay or two，but should eventually disappear．A salt has been used than the moisture in the hutter has been able to take care of，and is plainly evi－
dent in the form of little crystals on the surface of the butter as the moisture recedes or surface While packing mav be scored reliably at the ime it is done，yet it is auite likely to show up
defective in the stored article；while finish．with which packing is generally conjoined，should not alter materiallv．unless the boxes get dirty，or too sudden chilling causes the surface of the It seems quite possible that the important part
vhich flavor plays in determinin butter scarcelv receives full recognitio value of prevailing scale of points for judxing butter．At least 60 points out of 100 should be apportioned cale of points than tho ，a far more practica being ：Flavor， 60 noints：prain 15 points color， 15 points；salting， 5 praints；finish， 50 points：
points；total， 100 points． The reader has probably gathered that this serience；it may be based upon one＇s own per onnal taste，or it may be based unon the tastes as such are catered to．In the case of one＇s own personal taste，there is but one standard to erv many．To teach others to juse there are cligently，it is necessary to teach them all vol can ahout the manufacture of butter，and then
to train them with regard to snecial market re－ tical creamery work，and his clucation has scarce IV more than begun when ho has got through his
first dairv－school course．Here he has seen good
hutter mud cueriencöd men sampled and heard comments by
ind indiferent from of hutter．good．bad． ：und indiferent．from overv point of view，and has onle his fellow makers，hut the directors of dairy
$\qquad$
his own creamery he is limited to the manufacture of butter to meet the requirements of one or pos-
sibly two market standards. As long as he resibly two market standards. As long as he re-
mains content with is present knowledge and enmains cont, well and good, but if he looks forward
vironment
with the ambition to buy butter some day, either with the ambition to buy butter some day, eithe
on his own account or for somebody else. the best thing he can do is oo get a position with some reliable wholesale produce firm at an important
distributing center, and the chances are that with in a year he will acknowledge that he has learned
more about judging butter than he ever knew before, and that he will probably be able to dis criminate between the special requirements of special markets, as well as to distinguish just how
far his own personal taste should or should not far his own personal taste should or should no
enter into his judgment.
Oxford Co., Ont.
Oxford Co., Ont.
Problems of the Dairy.

## By Laura Ros

CiHURNING.
In the last article we spoke at length of the churning temperature of cream, so now we will
deal with the churning proper. I prefer a barrel churn, with no dashers or
workers in the inside, and I like a large churn. If the churn has been standing a
When ready to begin churning, strain in some hot water to scald the churn. After taking the
water out, by pouring it from the top of the water out, by pouring it from the which removes any floating dust, and is quicker than allowing the water to run through the plug hole, strain in some cold water to rinse
the churn. When cream is put into a hot churn one can never tell how many degrees it is going When you have brought the cream to the desired or perforated tin dipper. It is nice to
sieve know just what has gone into the churn. We want to keep out any hard, clotted cream or
curdy matter. A little butter coloring does no harm, and inm
proves the looks of the butter. If the quantity of cream is small, more accurate rosults may be
had by allowing so many drops-from fwo to four had by allowing so many drops-from two to pale side.
When churning, I like, at first, the churn revolve just as fast as will allow the cream to
drop. When the cream thickens, lessen the speed drop. When the cream thickens, lessen increased.
until it breaks, when the speed may be in If the butter is gathering fast, keep up the speed if slowly, churn slowly
Churning should cease when the particles of
butter have reached the size of wheat grains. If butter have reached the size of wheat grains. If out with the first-drawn buttermilk. This is easily noticed if the buttermilk is allowed to run through a wire sleve. and cause a ad two or three quarts of water buttermilk, I add two or three quarts of water
a little below churning temperature, just shortly before the buttermilk is drawn off.
To wash the butter, strain into the churn as To wash the butter, strainad cream. In winter it is necessary to take the temperature of the
it
water usually have it from four to six dewater. I usually have it from four to six de-
grees colder than the crearn. This depends on grees colder than the crearn. This depends on
the firmness of the butter and the heat of the room where the butter is to be worked. Revolve
the churn rapidly and draw off the water. One washing is sufficient, unless the butter is very
soft or has a bad flavor ; in such cases, a second soit or has a bad it.
washing will help it.
Washing walting may be done in the churn or on the worker. The amount of salt depends on the market or the consumer's taste. Three-quarter
of an ounce on the worker, and one ounce pe of an ounce on the worker, I prefer salting in the churn. It insures a more ven distribution of the salt, with less working
Have the butter spread over the bottom of the Have the butter spread over the bottom and weigh the
churn. Estimate the amount, and wher salt. Sift part of it over the butter, then tilt
the churn to fold over the butter, sift on more all, tilt the churn the opposite way, and sitt
n the remainder of the salt. Revolve the churn友 ir more lumps. If the butter can remain in the
thurn in this condition for an hour or two, so wuch the better; if not, take it out on the
worker and give it one good working, using pres
it makes urker and giveid a sliding motion; it make
If salting on the
he butter. greasy and salvy. orher is practiced, the butter is removed from or butter worker, and the required amount o sifted over. Do not start to work withou remove excessive moisture and to evenly dan
thute the salt. Better a little too much than
t enough working. The most popular form to market hutter is in
The butter int should be so adjusted that the print weighs

THE FARMER'S ADVOCATE.
sheet of parchment paper
Allows for evaporation. The little extra weight
Wetting the paper makes it possible to more neatly on the butter, and the paper will quality of parchment paper should be used, and
it is worth while and the maker printed on it. In this way a reputa tion for the butter is established.
Some Surprising Dairy Figures. Wisconsin, in 1906, produced $125,000,000$ lbs.
butter, having a value of $\$ 35,000,000$ while ts cheese returns for the same year added $\$ 17$. 000 , noo to the account. The dairy products of the state exceed by $\$ 3,000,000$ the total income
from wheat, oats, barley, flax and potatoes. The creamery butter alone in the State of Iowa had ast year a valuation of $\$ 28,000,000$, while that of the crons above named totalled $\$ 55,000,000$.
Minnesota has increased the annual value of the Minnesota has increased the from $\$ 6,000,000$, in 1890, to $\$ 41,000,000$ at the present time. Professor Hecker, of the Minnesota Station, estimates that he is able to get product worth $\$ 2.24$ out of herd. Every herd will not do so well, which is clear proof that there are many cows that are

## GARDEN 部 ORCHARD

## Orchard Practices in Nopfolk.

Aruit-growers talk with members of the Norfolk to convince anyone that co-operation as known in the district surrounding Simcoe has been a whole community. Orchards that a few years owners, now are proclaimed the most valuable asset of extensive operations in mixed farming. The change has been brought about by education
through the association formed but three years ago, and the businesslike disposal of the product of orchards belonging to members by a shrewd and competent manager
Chief among the enthusiastic promoters of the Norfolk Asspciation is J. J. Gilbertson. It was
not because of lack of effort on his part that organization was not effected prior to 1906. He, along with a few others, made an attempt to form an association in 1905. Meetings were co-operation. Papers were prepared for organization, but the enthusiasm in some quarters seemed to wane, and the fact that a competent manager
was not in sight resulted in disaster. Farmers was not in sight resulted in disaster. Farmers was delayed.
ers' Association il haved to the Norfolk Fruit-growers' Association since it was formed three years cate" representative recently, "I had been in the apple business, and certain experiences had a
strong tendency to make me anxious for the strong tendency to make me anxious for the
formation of an association. About seven years ngo I had a magnificent crop of apples. I made a satisfactory sale at high prices-but this bar
gain was satisfactory only on paper. The buyer never came to pack until November 7th. The
apples had becn lying on the ground for some
time, and were fast deteriocating. The gu:chaser
was to take everything, but at every turn I was a loser, and $\$ 300$ would not cover my losses that
season in having to dispose of my apples in this way. I was taught to seek out a plan whereby
growers could handle their own fruit and growers co $m$ mand prunting and spraying.
ok an active part here, and have been learning every season since here, and have been learning every season since
A few years ago our pruners started at the in-
side or center of the tree and worked side or center of the tree and worked out. It
was soon found that this was a mistake. Now we start outside and work in. We used to trim we start outside and work in. We used to trim of a branch. Now fruit spurs are left all the tributed. This gives a greatly-increased yiel and a balanced tree. Sometimes it is found necessary to prop up the limbs.
"In the past it. was not the orchard trees. Now I spray thoroughly thray orchard trees. Now I spray thoroughly three
times, and I am certain that it pays. In this regard there is a difficulty in the fact that new
members sometimes neither grasp the idea of members sometimes neither grasp the idea of
spraying nor comprehend the value of absolute thoroughness. In spraying after the blossoms begin to fall particular care is demanded. New pests and more of the old ones commonly put in appearance if precautions are not taken.
season the Tussock moth was bad. Spraying must be done when required, no matter what other work may be urgent. A strict watch must be kept to see when the trees are ready, and
weather conditions have to be taken advantage of. Our standard spraying mixture contains 60 or 70 lbs . of lime to 100 gallons of water. This excess of lime is desirable. lime. It is difficult to distinguish sprayed from unsprayed trees. CULTIVATION AND FERTILIZING. "I practice clean cultivation in the orchard,
Cover crop is sown in late summer. For the past two seasons buckwheat and rye mixture has been put in about the middle of July. The former
comes up quickly and keeps ahead of the weeds, while the rye comes on later and remains after the buckwheat dies
"Fertilizer, two years in succession I have used am able to get it in town at 50 cents a load. reckon the total cost, including expense of hauling it home, at $\$ 1.00$ a load. I consider it would be wise to pay as high as $\$ 1.00$ a load in town for
manure in preference to using artificial preparations. I haul one ton or sometimes one and half tons at a load. My farm is only three
miles from town, but I think it would pay to miles from town, but I think
haul manure at least six miles.

LABOR QUESTION NO HANDICAP.
Little or no trouble has been experienced se curing help when it is needed. In fact, few extra hands are required except for picking, and at tha Pruning can be done in March or early April, before regular farm work commences. An orchard can take much or little labor, depending on the thoroughness of the operations. I realize more
money from apples than from any other product money from apples than from any other product
on the farm. On my 160 -acre farm, twelve acres on the farm. On my 160-acre farm, twelve acres
are in apples, the balance being devoted to mixed
farming Milk


Picking and Packing Apples in Norfolk County
mer in the shard of J. J. umberson resultad in
for winter feeding. In net profit one acre of tion to the best methods advocated for fattening. The soil, however, is not ideal for the latter. It is a sandy loam, with gravel bottom, and easily cultivated. The twelve acres of apples average about $\$ 1,000$ a year after pa
penses. This year it will be more.

PAYS TO THIN ON TREES

- After investigating the merits of hand thinis a very advisable part of orchard practice. In 1907 I went over about 80 trees. There was noticeable improvement in the quality of the
ruit. On trees not thinned there was 15 per iruit. On trees not thinned there was 15 per
cent. or more number two, while on the trees gone over, seven per cent. or less went second
grade. Last summer I thinned the whole or chard. Some were not heavily laden, and little 880 barrels, made up of Baldwins, Spies, Greenings, Tolman Sweets, and a few of other kinds,
only 73 barrels graded seconds. In 68 barrels of only 73 barrels graded seconds. In 68 barrels of
Greenings, only two were second grade. Orchards in the distriet where no thinning was done sciarcely had a percentage equal to 73 out of 880 that would grade number 1 .
trees are heavily fruited and many varieties are grown it might total more. Last season five cents per barrel of fruit harvested would cover
all the labor entailed in thinning. Then it cost 20 cents per barrel to pick and pack, thus making the total cost of harvesting 25 cents per barrel. Picking and packing can be done much more exafter it is formed. I have to pay for taking the arrult of the tress in any event, and I prefer to
take off some in the early summer and let it drop take off some in the early summer and let it drop to the ground. The result is fewer apples in in time taken to grade. Thus thinning on the trees saves in picking, grading and packing, giv-
ing a superior article when prepared for the maring a superior article when prepared for the mar-
ket at a cost not exceeding that commonly entailed in harvesting apples.
"I am greatly in favor of organization. It we could have such associations as the one which has done so much for fruit-growing in Norfolk


## Replacing Trees.

Northumherland County, Ont., apple-grower, orchard trees that had died, with young stock, ound that the difficulty could be overcome by putting the ground in proper condition. In brief, his plan is to burn the roots and trunk of the
old tree on the spot, leaving the ashes. He then digs out a large hole, several feet across each way, in the autumn, and fills it with good barnThe heap being left exposed to the rains and snows of fall and winter, the site by spring will hecome thoroughly enriched with the heavy mulch and transformed to a mould. Before the new
tree is set, any coarser or strawy portion left in tree is set, any coarser or strawy portion left in
the mass is carefully shaken out and removed, leaving a fine, rich rereptacle, in which moisture
will be retained and plant food supplied through will be retained and plant food supplied through
the rootlets of the voung tree. Since adopting the rootlets of the voung tree. Since adopting his plan

## POULTRY

A Fapmer's Experience with Poultipy.
Edito
our letter has just come to hand, requesting on article on poultry, which I am pleased to forward, although I cannot give figures of cost
in keeping my stock the year round, as I am away during the winter months. Had been workng on the Institute staff in Ontario for seven years prior to my winter engagements al instructor
vania State College, 1907-08, as special ins on poultry. Twelve years ago, after reading
many articles written by experienced people (in nany articles written by experienced people (in
your valuable paper) on poultry, I became enthused, and started in the business in a small way, I saw at that time there was likely to be a big demand for a suitable class of dressed
poultry for the English market. After reading Prof. Robertson's report on that trade, I found they preferred a white-fleshed fowl. I had heard of the Buff Orpington as being a most popular
fowl in England at that time, combining all the requirements as a general-purpose bird, and having white legs and flesh, which our English friends
so much admire. I at once imported six females and one male, costing 8125 . and was among the first to introduce this breed into
Canada. Two years after I had a good-sized flock. With care, I had selected birds of the nroper meat type. I then commenced crate-fat-
tening them for the market. pasing special atten-

I was able, in a short time, to raise and fatten Fair, Guelph, in dressed poultry. Although
working a large farm of nearly 200 acres, I working a large farm of nearly 200 acres, I bought from my neighbors several hundred, and fattened them in crates, doubling my money on the investment. I was then able to build more extensive poultry buildings, having had a few
years' experience in the business, and feeling con vears' experience in the business, and feeling con
fident I could make a success of it. Many fail ures have been made by those who had little or no experience, and invested considerable money policy to commence with a few, and gradually in ase your flock as you profit by mistakes.
After I had got well established, I commenced axhibiting at the shows, and advertising eggs and
stock, and, by dealing honestly with the public my business developed year by year. Last year my orders for eggs alone for hatching amounted to about $\$ 700$, from 150 layers. I raise about 400 young stock each year, and sell $\$ 800$ worth
of these for breeding purposes, and market the culls. I have no trouble in securing from $\$ 5$ to $\$ 25$ edch for the bulk of breeders, many of my best shipments going to the United States. Thi
merely shows what can be accomplished merely shows what can be accomplished Es a
side line in poultry, where special care is given to it. BUILDings FOR POULTRY.
Mistakes are frequently made in putting up expensive buildincs; moderately cheap ones an
swer just as well. Refore any profit is realized on poultry, they have first to pay for the food they consume, then the interest on the money in
buildings, and a sinking fund for wear and tear on equipment. Where a lot of moner is put in a plant, the profits are much smaller at the end
of the year.


Permanent Poultry House.

The most essential things in a poultry house are iresh air and sunshine. These are the best
and cheapest known agencies in destroying dis ease germs. No poultry is profitable if unheast be kept very warm in the idea that hen eggs. Accordingly, they keep the henhouse close up tight day and night to prevent any cold ai
entering. Dampness soon forms on the interio entering. Dampness soon forms on the interio for germs. Poultry, after being kept in a building of this kind for some time, and then allowed to go out in the cold air, catch cold very quickly,
which will soon develop that dread disease, roup which, if Al ilighted, will soon spread through the flock, wallity an endless amount of trouble hardened to it gradually. When the nights be gin to get cold in the fall, do not close the win dows, unless there is a direct draft on the birds as to prevent this. If chickens are in as to prevent this. If chickens are in good
health, zero weather inside the house will not materially affect the egg yield, or the combs o the male birds. I have on several occasions noticed this most strikingly, having sometimes
purchased a bird from a pen where they were kept warm, and placed them in my pens along side of birds that were hardened to cooler conditions; the comb of the bird introduced would
freeze, while the others were not affected in the freeze, while the others were not affected in the
slightest. From my experience, a poultry house built on the shed-roof plan gives best results more especially during the winter months.
house 12 feet wide, $4 \frac{1}{8}$ feet at rear, and 8 feet a house 12 feet wide, $4 \frac{1}{4}$ feet at rear, and 8 feet a roof, will permit the sun to shine all over the the house warmer and more cheerful for the foll.
months, and will reach to the rear part quite easily if the windows are arranged properly. A in cost of construction over $\$ 2.00$ per running foot. After the frame is up, cheap lumber can
be used to cover it, covering this with one or be used to cover it, covering this with one or
two thicknesses of tar paper, and three-ply roof ing paper for the roof. $\begin{gathered}\text { One-ply can be used for }\end{gathered}$ the sides, or cull shingles, where they can be procured. A permanent house of this style should
be placed on a cement wall 8 inches thick. The wall should be 6 inches above ground. A trench should be dug 15 inches deep, and 8 or 10 inches
of stone or brick-bats placed in of stone or brick-bats placed in bottom, to drain
the water off, thus preventing any from entering the water off, thus preventing any from entering
the inside of the building. If the ground on which the building is placed is hard and dry, no floor is required; if soft, the fowl will soon dig holes in it. In this case, I would put in a ce-
ment floor. This can be done at small cost where soft-coal cinders can be procured; they make one of the driest floors for a poultry house.
Place about 5 or 6 inches over the floor, and tamp down tight, then put on 1t inches sand a floor sufficiently strong for poultry. It is easily kept clean, and is rat-proof. Where fowl are confined to a limited area, the building
should be located so that runs can be made on both sides. This will give the runs a chance to grow green food for the hens during the summer, if they are changed from one side to the other and nests should be arranged at the rear part of the house, leaving the entire floor space for a scratching place, which should be covered with four or five inches of straw. A frame covered
with muslin should be hinged at top of window to open inside. This can be hooked at top of ceiling when not in use. On very cold, windy or stormy days the curtain should be down.

In sections of the
rovince where the
thermometer drop fhermometer 10 to 20 de
grees below zero, it grees below zero, it
is advisable to have is advisable to have
a window to slide over the opening, in place of the curtain,
during the night. Inch-mesh wire net ting should be put on
a frame, which is a frame, which is
hinged to side of
window. closed, will keep out
sparrows,
which usually hover around poultry houses. permanent houses, a m using several
colony
houses for wintering hens, with equal results in egg
production. These are
built built on much the
same plan, with the same plan, with the are placed on run-
ners. They are built $7 \times 8 \mathrm{ft},. 4 \frac{1}{\mathrm{ft}}$. at rear,
and one male to a house this plan is the extra labor in caring for them Where this is not considered, the colony house has many things to commend it. It can be young stock, etc.

EGG PRODUCTION
In producing eggs in winter, much depends on An ideal hen for winter-egg and attention given. that is mature by November 1st; one athat is some breeds are better of good laying strain. more depends on the strain of the breed
often find good and often find good and poor layers in all breeds. To
get pullets of our general-purpose hy Nov. 1st, it is necessary to bareeds matured come years. May chicks mature quickly, and ommence laying about Dec. 1st. Good-laying not too old. The practice of forcing moult, is
antvocated by some hat in the adtyocated by some, but in the writer's experience this has not always proven a success. If a hen
is forced to stop laying by this method, it is 1s forced to stop laying by this method, it is
oiten difficult to get her at it again. If good
lay.rs are fed properly, then lay.rs are fed properly, they will usain. If good hal. often found that through the moult. I Homend late in the season.
hl. 1avers two years of age are seldom profit imme reors for a horns. Minorcas, stc... are some Fontier breeds usually become oxcessively fat and later-hatched pullets of the lighter breeds, The main FeEDing


JANUARY 7. 1909
agg production are that there
of green food, meat food, and rary to food, ercise. This is most important during the time the birds are in confinement, and can be accomGoor.
Wheat is, without any exception, one of the grains for feeding in the litter to induce exer-
cise. Corn is used quite freely by some both cise. Corn is used quite freely by some both
winter and summer, but corn being rather large and conspicuous when in the litter, it does not
give enough exercise. It is a heating and fattengive enough exercise. II is a heating and fattenis best fed at night, when it can be quickly picked up by the fowls. It is a good plan to warm the corn in very cold weather, thereby assisting to
keep the hens warm during a portion of the night. klump oats, barley and buckwheat are also good foods, and are relished as a change by the fowl. Green food is very important in winter, and can
be supplied by feeding mangels, cabbage or other roots. Cut clover or clover leaves steamed other roots. allo soft are also relished, and are valuable green
tood; hens kept for laying should have all they food; hens kept for laying should have all they
will eat each day. Animal food is supplied in will eat each day. Amimal of green cut bone, which gives the best results in winter, where one has a bone mill; if
not, beef heads and livers give good results. Beef scrap is also good, where it can be had, and is valuable during the warmer part of the year. it is unhealthrul. Fresh water, grit and oyster shell should be accessible to the fowl at all
times. According to the analysis made by chemists, the average composition of hens' eggs is given in the following table
$\underset{\%}{\text { Refuse }} \underset{\%}{\text { Water }} \underset{\%}{\text { Protein }} \underset{\%}{\text { Fat }} \underset{\%}{\text { Ash }}$ Whole eggs as
purchased $\begin{array}{lllll}12.2 & 65.5 & 11.9 & 9.3 & 0.9\end{array}$ $\begin{array}{llll}73.7 & 13.4 & 10.5 & 1.0 \\ 86.2 & 12.3 & 0.2 & 0.6 \\ 49.5 & 15.7 & 33.3 & 1.1\end{array}$ ible part
Eggs, white $\begin{array}{llll}49.5 & 15.7 & 33.3 & 1.1\end{array}$ It can be seen from the table shown herewith that the protein or nitrogenous elements consufficient to supply the needs of a fowl whose body
is made up so largely of nitrogenous matter, and whose product, the egg, is so rich in protein and fat. On an exclusively grain diet, fowls would
find difficulty in keeping their body in condition find difficulty in keeping their body in condition,
to say nothing of having any surplus from which to say nothing of having any surplus from which As a rule, prepared meats are costly, Skim
milk is an excellent animal food, where it can be had cheaply, but containing about 90 per cent. water. It would not be worth more than 20c.
per 100 pounds, compared with beef scrap at $\$ 3$
per 100 pounds.
Green bone would be much cheaper at $\$ 1$ per 100 pounds.
arious experiments have been tried from time meal, oil weal, pea meal, and other foodstuffs
methe rich in protein, with a view to using them in the place of animal food. It has been found that
vegetable protein is not so palatable nor so well cegetable protein is not so palatabled by the iowls as animal protein. Heavy feeding on vegetable foodstuffs rich in protein usually results in digestive disturbances, the birds
getting out of condition. With animal foods, if pure, the only trouble usually is looseness of the bowels, in heavy feeding, which can usually be vegetable foods rich in protein shoud prove less the analysis, but from practical experience with these foods, fed in excess, trouble usually arises Feeding skim milk to laying stock has been prac-
ticed, with excellent results, as has feeding of riced, with excellent results, as has feeding o
curd or cottage cheese. Where skim milk is fed,
and it is mixed in mashes or given to drink. The
results are satisfactory, but care should be used to have the milk either always sweet or always
sour. Alternate feeding of sweet and sour milk sis liable to produce diarrhea. Old milk that has
is oeen allowed to stand in dirty vessels or galvan-ized-iron cans or pails, sometimes proves injurious To force egg production during winter, a warm
mash, fed once a day, has a good effect. My system of feeding is wheat in the morning, scatCered among the litter; mash and animal food a
Wheon; also green food and corn at night. Where t is valuable for inducing exercise, and supplies irem to delight in threshing their own grain. if 100 pounds of bran. 100 pounds corn chop.
if 100 pounds oat chop, 100 pounds wheat mid
Hines, 100 pounds beef scrap, 25 pounds linseed
acal, 25 pounds alfalfa meal. As a rule, they iill not eat much of this dry mash unless
nungry ; they much prefer the grain or wet
curn they much prefer the grain or we
But when hens are lariner heavily, we do
metimes feed them all ther should have sometimes feed them all they hopper and
van then go to the dry-mash hople are having

## THE FARMER'S ADVOCATE.

fairly good results from feeding dry mash most
of the time. Where labor is scarce, this method answers very well. I have found from experi-
ence that hens want to be fed well to produce aggs. Pullets need all the food they will eat, o
the right kind, and results in egg production wil follow if properly taken care of. J. W. CLARK.
Brant Co., Ont.

## Methods and Results.

My poultry house is $20 \times 24 \mathrm{ft}$., built of single boards and battened on outside of studs, and
lathed and plastered on inside, with air space. It has a coment floor, on which is a few inches of dirt or gravel, also some litter. There are
three windows 3 it. square in south wall; then at the upper end of the roof, sloping to the south, is an upright part some 4 ft . high, which also
contains three windows, $3 \times 4 \mathrm{ft}$. The north and south walls are 4 ft . high. It has a door in the west end and a window 2 ft . square in the east windows, and removed a few hans in the lower It contains four pens and a little feed room between the back two. The dropping boards are some 2 ft . above the floor, and above the two on straw, and in front of all of them is a curtain of burlap, which can be let down on cold nights. I have one scratching shed on the north side 8 nd They enjoy these on nice days. I feed three times daily. One feed of grain in
litter, some oats and mangels or cabbage at noon litter, some oats and mangels or cabbage at noon,
and a feed of mash at night, part of time. The and a feed of mash at night, part of time. The
mash is sometimes fed in the morning. followed by some small grain in the litter. I give one or two feeds of potatoes (cooked) with shorts
every week, in place of the mangels, which are stuck on nains, such as corn and oats, two parts; bran, one part; shorts, one part, and a little linseed
meal, all moistened with boiling water; or, bet-
ter, skim milk.
They get two or three feeds of boiled beef liver
green hone a woek, and have dry bran in. a hopper before them constantly. I also keep grit and oyster-shell before them in a hopper. Some
clover leaves to pick over also furnish a treat for biddy in winter.
The dropping boards are cleaned two or three
times a week, and a sprinkle of lime dusted over times a week, and a sprinkle of lime dusted over the end of the perches, also on the under side of perches. A serviceable hopper may be made from length of stovepipe and a smaill box pake a square; remove the bottom and fasten a bottom half way up the sides; nail laths around the top of sides, allowing these to project of an inch a hole on each side of stovepipe 2 in . from one end; fasten a wire in these holes for a bail, at top of which have a ring. Suspend this pipe
from the ceiling by a cord or wire over the box, from the ceiling by a cord or wire over them foor of box. Place grain or dry mash in the pipe, and adjust it so as to
picked from the box.
During the early part of the year 1907, from 60 hens, $I$ got the following results. About May 1907 -Jan., 37 doz.; Feb., 30 doz.; Mar., $75 \frac{1}{2}$ doz.; Apr., 61 doz.; May, 73 doz.; June, 45 doz.; Oct., 71 doz.; Nov., $12 \frac{1}{1}$ doz.; Dec., 6 doz.
$1908-J a n ., 21$ doz.; Feb., 46 doz.; Mar., 51
doz. The receipts for 1907 were $\$ 147.09$; expense, or feed, $\$ 72.28$; proft, $\$ 74.81$. During the year 1907 they laid 400 dozen eggs, The eggs alone in January, February and March,
1908 , brought $\$ 38.65$. I then had about 55
. hens, Cannot give figures for balance of 1903 J.
Norfolk Co., Ont. F. RIDDLE.

## Water for Poultry

While hens can live and lay moderately well
given snow instead of water, it is reasonable o believe that water is better, and that the chill hould be removed from it, one consideration be freezing point when placed in the pen. If water is provided, let it be given regularly and pure. Water one day and snow the next is not a very

## Better Than Ever.

I received my knife some time ago, and am
delighted with it. It is well worth trying for. helighted with it. It is well worth trying for
Your Christmas number was fine this year-better than ever. We have been taking ". The Farmer's
Advocate. for two years, and could not do withAdvocate" for two sears, and could not do with-
out its weekly visit. Hoping to get new subcribers, and wishing you every success for the New Year.
Wentworth Co., Ont.

## APIARY.

## The Busy Bee.

At the meeting of the Maine State Pomological Society, recently held, Miss L. M. Scales, of busy bee, an abstract of which follows en many enemies in the insect world, but one of his best friends, the bee, be longs to the insect domain. Recause of the offlces of this little insect, busily fitting about car-
rying pollen from flower to flower larger and better fruit and more of it results. Apples, pears, plums and cherries owe a large and perfect
crop to the busy bee, and the strawberry and crop to the busy bee, and the strawberry and hence, we find many orchardists uniting bee culture with the raising of fruit.
" Bumblebees and honeybees live in communities composed of drones, workers and queens, eggs. The cells in which the eggs of the workers and drones are laid are also used after the emergence of the young for the storing of honey. the drone cells are larger and stronger than those of the workers, while the queen cells are still
"After the eggs hatch the larvee are fed pollen and honey for a few days; when they refuse to eat they are covered over with wax and spin
themselves a fine silk cocoon, from which, after a themselves a fine silk cocoon, from which, after a
two-weeks' pupation, they emerge perfect bees, two-weeks' pupation, they emerge perfect bees.
The cells are now cleaned for more brood, or for the storing of honey. They gradually become
smaller, owing to the accumulation of the coooon smaller, owing to the accumulation of the cocoon
material. After a time the foundation should be melted, as small cells mean small bees.
" The length of a bee's life depends upon tne amount-of work it doas. The wings are dellicate, and soon wear out, and in the busiest season wil
last only from two to three weeks.
". The hives should be filled with bees and the frame with brood as early in the season as possible. A soven-frame Simplicity hive tis a standwool blankets for winter, and plenty of stover provided. In the spring remove the side packing as soon as the weather is warm enough, and add
three more frames. Blankets of light wool will be needed over the section cases until the middle of June. When the weather becomes hot, spray the hives with cold water and place wet sheets
over the tops and sides to keep them cool and to prevent the wax from melting.
"Before the honey flow there is no nectar in the honey sacs, and the segments of the abdomen telescope over each other, and the hees are massed honey comes the abdomens become filled, and unless room is given for the enlarged bees they will the hive was full before. This nectar is given by the hive was full before. This nectar is given by
the field bees to the hive bees, who hold it until
it is properly conditioned before they deposit it it is properly conditioned before they deposit it in the comb. The length of the season is usu-
ally from the first or middle of April, when the bees first begin to gather the pollen for the beehrend, until the last of October. It may beg in the middle of March if spring comes early. to do, but if the flow of nectar ceases, watch out. The first indication is generally that the front of the hive is covered with bees. When a young queen is nearly ready to hatch, everything becomes
suspiciously quiet, and soon the old queen and the greater part of the bees leave the hive with a pleasant humining sound. They cluster around the queen, hanging in great bunches, If it hapto the hive to go arain a little later, when she is ready to leave. Swarming bees are filled with honey to begin home-making, and are never so
gentle as at that time. Scouts are sent out to gentle as at that time. Scouts are sent out to
locate a site for the home before the bees swarm. ocate a site for the home before the bees swarm. they are placed, they make a happy, low purring sound, like a contented kitten.
" In handling heos it is always well to be protected by a bee veil. If the operator is not too nervous, it is easier to work without gloves. Late
in the season, however, protection is indispensable, and in handling strange bees one should be fully protected. Should one bee of a swarm sting, it always incites others to do likewise. A linen cloth folded several times and kept saturated
with vinegar is an excellent alleviant for beesting. Wax is a secretion of the worker-bee, and is produced when required for use in the hive. The bees fill themselves with honev, and as a high
emperature is reauired to produce it. they hang themselves up in clusters or festoons in the hive. and most tenaciously cling together.. It. is
secreted bet ween the plates in the lower side. of secreted between the plates in and is at frst white and very
the abdomen, and brittle, but is rendered plinhle by mastication in
the mouth of the bees." MRS. M. B. AIKEN.,

## THE FARM BULLETIN

## Death of MP. T. S. Weld.

There are many readers of " The Farmer's Advocate " who will regret to learn of the death
of Mr. Thomas Saxon Weld, which took place in of Mr. Thomas Saxon Weld, which took place in
London, England, on Tuesday, December 29th, at London, England, on Tuesday, December 29th, at
the age of 45 years. Mr. Weld was born in Delaware Township, Middlesex Co., Ont., and was one founded "The Farmer's Advocate." Educated in Loundon and at Woodstock College, he became prominently identified with this paper, and for some time was also President of the London Printing and Lithographing Company. About seven years ago, owing to M-health, he left Lon don and travelled extensively, spending some time in Arizona, Alberta, and the sochange of climate, the hope of being benefited by change of climate,
but with only partial relief. Finally he went to but with only partial relief. Fife, lived in London for the last six years, his health having in the
meantime somewhat improved. Letters received by the family here on Christmas Day indicated
that he was as well as usual, but four days later a cathe message brought the sad tidings of his death. Mr. Weld was a man of a cheerful and
lindly disposition, and was popular with a large circle of appreciative friends. He was exceedingly fond of good horses, and before his heaith failed was the owner at various times of high-class harness horses, of which he was an expert handler.
Besides his wife, he is survived by seven brothers and $t w o$ sisters.

## Ontapio Horse-breeders' Exhibition.

Everything is now about in readiness for the Breeders' Horse Show, at the Union Stock-yards, West Toronto, January 13th to 15 th. Entries are completed, the stables ready for the horses,
and the arena ready for the visitors and the judg and the arena ready for the visitors and the judging. Handsome wherorations where the animals will be stabled, as well as in the arena. The passage between the
In order that visitors may see the horses the best advantage in the stalls, the stallions o each breed will be placed in adjacent stall. best opportunity for careful inspection will be when the horses are in the stalls and before the
building is crowded. Visitors will be admitted building is crowded. Visitors will be admitted
to the stables any time during the morning or afternoon. One paid admission will admit to any of the exhibition buildings during the entire day Any person paying admission fee may go in and
out of the exhibition buildings as often as desired during the day on which the admission was paid Full information regarding the programme and
and entries in each class will be published in the official catalogue, and will be distributed during th
show. The programme showing the order judging may be procured upon application to th Secretary. Every facility will be given purchaser to examine horses.
The railroad rates will be single fare, good
ing from all points in the Province on January going from all points in the Province on January
12 th and 13 th; and from points where the singl fare is $\$ 2.50$ or less, tickets will, in addition, be
sold on January 14 th and 15 th; all tickets goor to return up to January 16th.
For all particulars regarding the show, appli cation should be made to A.

Dread Disease Under Control. Judging from reports from reliable sources
the Bureau of Animal Husbandry has the foot the Bureau of Animal Husbandry has the foot and-mouth disease under control, and there is 11
tle danger of a further outbreak. About 250
competent men have been at work, and almos competent men have been at work, and almos
4,000 cattle were killed and buried. Already ro lief from some quarantine regulation from some parts. Miary that arrangements have be athen mude with the Cana brought into Canada from Michigan through nia.

Canadian Fruit at Spokane. The superior quality of apples grown in British
Columbia was demonstrated at the great apple Columbia was demonstrated at he great appl.
show at Spokane, when, according to report:
thirten firsts and one second prize, including tw show at Spokane, when, accorize, including medals and a silver cup, fell to the product of the Canadian orchards. This victory was won ove
fruit from various States of the American Union ruit from various Washington, Ttah, Wyoming Montana, North Carolina, Montana, Nor
and New York

## To Our Club-raisers

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

If you send us two new names and $\$ 3.00$ to cover same (each new subscriber paying $\$ 1.50$ ), we will mark date on your paper forward one year as remuneration to you; or, for each single NEW NAME, accompanied by $\$ 1.50$, we will advance the date of your address label six months. Cash commissions or premiums, as preferred, for larger lists of new names

In clubs of FOUR RENEWALS OR OVER, we will accept $\$ 1.25$ each.

Premiums not included in club offers.
Start raising your club immediately. Get "The Farmer's Advocate and Home Magazine" into every household in your locality

## Fixed Methods of Young Fapmers

 meetings in Durham County of successful Institute cember, revealed the fact that systematic and prac tical rotation systems on farms managed by youngmen were doing much to uplift agriculture in the county. The leading speakers were D. Anderson of Rugby ; Dr. H. G. Reed, of Georgetown, and
Dr. J. Standish, of Walkerton. Mr Anderson reports that both afternoon and Mr. Anderson re were well attended, and that interest was manifested by intelligent discussions following the adthe services of thise-stock meotings in Alberta demand hext ferr weeks,
Dealing with agricultural conditions in Durham County, Mr. Anderson says
Farmers are following
Farmers are following diversified farming One-third of the tillable land in the County is in华解s and hay, not much fall wheat being grown. An increasing area is being planted to corn. Roots are not extensively cultivated. A million dollars North of cattle and swine are sold annually organized dairying is not a strong factor in Dur specialize in apple-growing, particularly in winto varieties; extensive, healthy, well-cultivated young rchards, some of them coming into bearing, are in the Townships of Clarke and Darlington, so that Durham promises to rank as one of the best apple-producing counties in the Province.
with the number of bright, intelligent, brainy young men who were starting farming for themselves, running their farms on progressive lines,
yet tempered with a steady cautiousness that is net tempered with a steady cautiousness that is
alway indicative of success. One young farmer's methods will give an idea of how agriculture is progressing amongst young men. He owns a
farm of 150 acres, 50 of which is a mile away farm of 150 acres, 50 of which is a mile away
from the home farm, and is kept in permanent pasture. The 100 acres is all cleared, and all
tillable land. The farm is divided into four fields, and a four-years' rotation closely adhered
to : 1st, corn and roots ; 2nd, oats and barley; to : 1st, corn and roots: 2nd, oats and barley,
3rd, clover; 4 th, mixed hay. Sometimes one-half of the clover field is kept for seed. A large cement silo, conveniently situated to the stables, ontains the hulk of the succulent feed. Only
few roots are raised, the dry falls being adverse to curnip-growing. I heard no complaint about noxTops in a four-year rotation, how can weeds gain Teality a smothering, crop, for a luxuriant growth and stifles weed wrowth. The fixed methods many of the young Durham County farmers most like results in nearly every county in the

Results in Farm Practice

A British Columbia Settler.


#### Abstract

itor "' The Farmer's Advocat


" The Farmer's Ad I have been a subscriber to The Farmer's Ad four miles south of post office and store at For Langley, with only a trail cut through the bush I made regular trips for my favorite, "The Farm er's Advocate." After getting my load of pre
visions, I commenced my journcy, over logs, ra vines and rivers, to my home, sweet home, among the bears and panthers. At that time ther was no C. P. R., no Vancouver; about half
dozen settlers in Langley Valley; a few Indian ponies, and a few bands of wild cattle. Now fine houses, fine farms, fine barns, fine scenery,
and a finer valley, will be hard to find. There and a finer valley, will be hard to find. Ther when we think of those artistic houses, those immense stock and grain barns, those well-tilled farms, those great herds of black-and-white cat
tle grazing in fields as green as the green fields tle grazing in fields as green as the green fields
of Ireland, I think you would say, Mr. Editor Langley leads. In a few months' time the elec tric cars will be running from Vancouver, and the houses will be aglow with electric light ; and the
dark evenings in winter the barns will be light dark evenings in winter the telephone will be installed in nearly every house. Then, we have the mountains to the north, extending from east to west. The Cali-
fornia sun sets, to a certain extent, at the foot of the mountains. The great waters of the Fraser roll gently down to the sea, teeming with differ-
ent kinds of salmon.
WEDD.

## The Spaprow's Discernment.

E.ditor "The Farmer's Advocate"':
One of your correspondents on the sparrow question, in a recent number of your paper, won-
ders how poisoning would work. It will work all right until the sparrows get too wise to ea the poisoned grain, which will be very soon,
About a year ago I undertook to poison some sparrows. I started by feeding them some whea every day on one of the beams in the barn, unti I had the sparrows gathered around pretty thick and they would clean up the wheat in a few
hours. of course it is not wise to have very much other feed lying around that they can get at. When I had the sparrows feeding about right, I put the poisoned wheat (poisoned with
strychnine) on the beam about dark one night, to be ready for them in the morning. In the nex two or three days we found abput two dozen dead sparrows, but so far as I know they never touched
another kernel, although the wheat lay there til the next harvest.
The editor expresses a fear that cats may be poisoned by eating the dead birds. There hav poisoned cats prows seem here in that way. Th cats whatever
I agree, most heartily, with those who would ke to sec the sparrow exterminated entirely. consider it a nuisance, and that continually, wit
practically no redeeming features.
Waterloo Co., Ont.

How to Renew.
Send us two new names, accompanied by $\$ 3.00$ ( $\$ 1.50$ from each), and we will advance your own circulation. If two new names cannot be secured send one, accompanied by $\$ 2.25$ ( $\$ 1.50$ from the new subscriber and 75 cents from yourself for the halance of your own renewal). This is a mos benefiting y-ur neighbors and yourself beside helping us to improve "The Farmer's Advocate."

## Fair Dates Fixed

January 13th to 15th.-Ontario Horse-breeder Hest Toronto Stock-yards stock and Poultry Show, at ottawa.

The Farmer's Advocate" is far and away not in America That is universally admitted The best is the cheapest. That also is a well estabished principle, and in reading matter it
applies more forcefully than in anything else applies $m$
conclusion is hy all odds the best paper to take. Chea Enclosed, please find postal note to amount of cate ", for subscription to "The F'armer's Advo with ." The ensuing year. We are well pleased cellent paper, and should find a place in every
farmer's home.
GEO. H. STEVENS. A report from Ottawa states that H. R ment for South Africa, with headquarters a

THE FARMER'S ADVOCATE.

| ANK OF TORONII | woo |  | JESTIONS AND ANSWERS <br> Miscellaneous. <br> udder trouble |
| :---: | :---: | :---: | :---: |
| ONE OF YOUR UED POSSESSION |  | $\begin{aligned} & \text { Rang } \\ & \text { cang } \\ & \text { warer } \end{aligned}$ |  |
| SHOULD BE A OF TORONTO |  | tion |  |
| ings Passbook |  |  |  |
|  |  |  |  |
|  | Montreal |  |  |
|  |  |  |  |
|  |  | much of an uppard movement bofore tho |  |
|  |  |  |  |
|  |  |  | In PARRY DISTRICT. |
| Reserve and Undivided $\$ 4,727,000$ |  |  |  |
| INCORPORATED 1855. |  |  |  |
| AR |  |  |  |
|  |  |  |  |
| Toronto. |  |  |  |
|  |  |  |  |
|  |  |  | So |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  | , in oman |
|  |  |  | How |
| REVIEW OF LAST WEEK'S MARKET. | ho |  |  |
|  |  |  | ${ }_{\text {gre }}^{\text {grain }}$ is alisko |
|  |  |  | ack? |
|  | ${ }_{\text {are }}^{\text {aro }}$ |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  | 101 |
|  |  | 238 | heal Thio |
|  |  |  |  |
|  | ${ }_{\text {ket }}^{\text {ket for dress }}$ tome |  |  |
|  |  |  |  |
|  |  | dambe |  |
|  |  |  |  |
| milch cows and Quality generally was poor to med Prices ranged from $\$ 25$ to $\$ 50$, with |  |  |  |
|  |  |  |  |
|  |  |  | that amount ant |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  | tish Cattle Marke |  |
|  |  | ${ }^{10}$ mereer |  |
|  |  | 20ic. per ib. |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

GCite, Fiterature and (finutatian

The bill to reduce licenses in Great Britain apparently sustained a crushing defeat, 272 of the Lords voting against it, and only 96 for it, but
right-strength even, in things moral -can scarcely be computed by numbers. It is now stated, on good
authority, that the 96 included the authority, that the 96 included the
flower of the Peers-both Archbishops and ten Bishops, also Lord Knollys, Ton, and Lord Balfour of Burleigh the Lord Chancellor quoted a judg who declared that eleven out of twelve cases tried at a recent assize were due to drink, and the twelith
indirectly, and that ninety per cent. of cases of cruelty to children had the same cause, but the appeal fell
on deaf ears. . Why should the 272 on deaf ears. . Why should the 272 with which they do not come in con tact? What had they to do with criminality, or with the cruelty dealt to the wives and children of
the drinking poor?
Human nature is very substantially the same in all ages, and still the excuse comes, tongue, "Am I my brother's keep-

> The following, from a recent Amerinew subject, needs no comment. We rust the article may recommend iteif, especially to our women readBritish bill is now pending in the British Parliament to prohibit the
importation of plumage for millinery purposes, and is being strongly advocated by various humanitarian organizations. London tradesmen,
who, with those of Paris, establish the feminine fashions for the civilized world,' are up in arms against he ' silly sentimentalists' who seek ". Whole birds, slain solely that their dead bodies may be worn on
the heads of women who are foolish he heads of women who are foolis enough to suppose themselves beauti-
fied thereby, are becoming more and more in evidence on fashionable thoroughfares in London, Paris and saIe destruction of birds for the plumage, was recently described by Dr. David Starr Jordan, who is be president of the California Audubon Society, but who, whatever else he may be, is hardly a silly senti mentalist
" ${ }^{\text {In }} \mathbf{a}$
a
> describing a visit to a village by Japan, where he heard what he thought at first to be the notes of quail, but on closer acquaintance he countless insects. As he went from place to place. he saw a few birds in
cages, but no wild song birds cages, but no wild song birds, and
everywhere he saw myriads of insect. - and no fruit. Years ago, the French milliners had sent bird lime to Japan, and this had been spread on the limbs of the trees, and send to the Paris market for hat-

dependence of creature on creature what grave and far-reaching results might follow the extermination of a single species. In this regard, our who have made their homes in counwho have made their homes in coun-
tries where insects impose a heavier tax on farm products than in any
other part of the world, is immens other part of the world, is immense.
Fully awakened by disastrous experience to the economic importance of birds to agricultural interests, they plead with us to save these tireless
aids of the farmer. Knowing, now. aids of the farmer. Knowing, now
that no bird should be blamed for the depredations of one month, con sidering the invaluable services i
renders during the remaining eleven, renders during the remaining eleven,
they point to orchards in which the song of the fruit-gatherer is hushed and remind us that the birds, by whose agency the trees had been
made fruitful, were a local asset, and mode fruitrul, were a local asset, an chant. They speak of harvest fields ared by the ravages of an undu ncrease of insects, made possible by fluence by plume-traders, and tell us that the profit of the few ought no to be obtain
" On their part the feathe rs have no arguments of a scientific reconomic nature to advance in strong plea is that they have always slaughtered birds for coin, and that


Glenora, on Bay of Quinte.
a. Over and above the sentimental they do not see why their pecuniary tional view of the case to which we, by 'faddists.' cannot afford to shut our eyes. The for a rebellion against the forces material prosperity of a nation de- destruction, but it is a work that
pends largely on agricultural pur- must be done now or never the dangers to agriculture arising many species of useful and interest and voracity of insiects, and reflect ing birds from extermination. It ispossible to exaggerate the that the birds, which are the ma- importance of immediate action." decimated for a sordid purpose, we Mr. Carnegie states that, at the
must admit that we are confronted
with a question that meririon. procon most profound thought and study present rate of consumption, the
world's iron ore will be exhauster Man cannot set up artificial sland in forty years, experts in forestry form to them. The linkage of life almost as startling computations in
to life in nature is so intricate, the regard to timber and coul.
the cavernous maw of universal consumption has been turned against the ing already been made in extracting nitrogen from it for purposes of plant-growth. What next? Will the ficulty ing it of having one's calke and eatof this mortal sphere bid fair to share ultimately the fate of the Surinam toad of Bermuda, which has inof subsistence? toad is slowly starving to death. Enough! Comparisons are not pleasant.

A party of young Canadians in East-end music hall with the intention of protesting against the singing of a song which has been proving very popular in that quarter recently, were refused admittance. The
refrain of the song runs as follows
" Why send your sons to Canada,

Where hunger stares them in the face?"'
Common sense suggests that but Common sense surgests that but
little indignation need be felt over little indignation need be felt over
the occurrence. Such songs are not composed to create prejudice, but as an expression of a sentiment that $d$; hence their popularity.
All emigrants to Canada do not go hungry, but, as the reports from Shacktowns hovering on the borders showed last winter, many of them do. Canada has room and work and food in plenty for an innumerable multitude of men and women
from the Old World, but these must be such as are willing to settle down to hard, steady labor on the land or in the homes, as Canadian
pioncers are obliged to do. Needpioneers are obliged to do. Need-
less to say, no very great proportion of such men and women can be expected from the East End of Old
London. A contemporary facetiously marks: " Everybody feels bound to tip the railway porter. His employer knows it. The porter's nominal pay is twenty-five dollars a month, because his employers figure
that, with the tips he gets, that is The same so who gets the tip?" The same may be said of hotel and steamship service; porters must
be tipped, stewards, maids, elevator boys, waiters and waitresses, else be looked for. Practically, a can demanded of the people, and by
whom? " Who gets the tip?" by

People, Books and Doings. gineer, stated recently, at a meeting Club of Canada, that the day is near in which electricity will be substituted for steam on the railways. crease the carrying capacity fully hirty per cent. For the future, "God Save the His Majesty, to be played in quicker

JANUARY 7, 1909
tom. An order of the Army Council has been issued, instructing National Anthem is to be 84
to the minute, instead of 60 understood that the King and the royal family objected to the slower
time as too dirge-like, and the
brisker rendering of the music has been tried before the King, and ap-
proved by him. The correct time is to be inserted on all music sheets and doubtless other bands will copy the example
Mr. Reginald Brock, M. A., Ot
tawa, has been appointed Director and will act under Mr. A. P. Low
Descendants of Sir Isaac Brock are presenting to Canada the coat he
wore when he was mortally wounded at Queenston Heights
$\qquad$ fication of the canon law. Proofs
will be sent to all the Bishops of the Roman Catholic Church in the
world for approval and suggestion.
$\qquad$
$\qquad$
$\qquad$ Mask?' All. the same, people are Vatican, and the very latest is Mgr.A This author adds a new name to the already long list of candidates for
the iron mask-that of James de la Cloche, or James Stuart,, eldest of
the children of Charles IT,"-T. P.'s. ward as this mysterious personage a natural son of Louis XIV. and brother of Louis XIV., a child of
Anne of Austria and the Duke of Anne of Austria and the
Buckingham; (3) the issue of a se-
cret marriage of Anne of Austria with Mazarin ; (4) a twin brother
of Louis XIV.; (5) the Duke of Monmouth; (6) a son of Oliver Crom-
well: (7) the Duc de Beaufort; (8)
Fouquet of the Armenian Church; (10) Count
Matthioli, an Italian ; (11) M. de
Marchiel, a French adventurer.

Lake On the Mountain. Whether the visitor takes the the stony driveway over the upland, road, along the south side of an arm of the lay of Quinte, the dis-
$\qquad$ for more distant and flamingly adto miss many a scenic gem along the
Canadian water byways. Charmingly surrounded by the Murray
Canal, the aforesaid Bay and Lake aqueous arms, and beautified by Prince Edward possesses a history,
and has evolved among its people Farmer's Advocate and Home Maga-
tine" has many old friends here
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


Lake on the Mountain.

|  |  |
| :---: | :---: |
|  |  |
|  |  |
| d geographers to wrestle with the after higher meanings, and, whether |  |
|  |  |
| upon the products oi the "roller is the'birthright of every human soul. |  |
|  |  |
| process" which its energy sets in Take, for instance, the mythical |  |
| on the brambly and precipitous "JJanus," represented with two |  |
|  |  |
|  |  |
| ad there as a penalty for |  |
| misdemeanors. <br> In early days, the overflow of "'Tis mine to guard the portals of the |  |
| e lake doubtless formed a cascade, year, or open to the |  |
| one, Major Van Alstine, with an eye And to the importuning throng of days, to monetary utility-still characteris- Sometimes I hear the tread of stormy |  |
|  |  |
| tic of the good Bay of Quinte people feet. |  |
| -cut a channel down the mountair Hoarse trumpet blasts, and loud assaut- |  |
| flouring mill of the region, in 1796. But other times they come with flatteries |  |
| Some years ago, a wooden flume, $\begin{gathered}\text { smooth, } \\ \text { Entreating 'Janus! Janus! let us in.' . }\end{gathered}$ |  |
| perseded by a huge iron pipe, I watchful stand. I will not turn the |  |
|  |  |
|  |  |

$\square$
Declare the moment ripe. Two ways I
$\qquad$
$\qquad$
$\qquad$
$\qquad$ His reversed face doth show distaste, And frowns upon the ills now past;
Dut that which this way looks, is And clear,

And what is this but the Christian doctrine of hope?
Let heathendom teach us one more wholesome lesson. a good spirit who, wishing to benefit a young princess, led her into a ripe
and golden cornfield. See these
ears of corn, $m y$ daughter; if thou ears of corn, my daughter; if thou
wilt pluck them diligently they will
turn to precious jewels ; the richer turn to precious jewels ; the richer
the ear of corn, the brighter the
gem: But thou mayest only once pass through this cornfield, and canst
not return the same way." The
maiden gladly accepted the offer. As maiden gladly accepted the offer. As
she went on, many ripe and full ears
of corn she found in het peth, but of corn she found in het peth, but
she did not pluck thenh, always hop-
ing to find better ones further on.
But presently the stems greve thinBut presently the stems grew thin-
ner, the ears poorer, with scarcely
any grains of wheat on them; further any grains of wheat on them; further
on they were blighted, and she did
not think them worth pleking. Sornot think them worth picking. . Sr-
rowfully she stood at the end of the
field, for she could not go back the same way, regretting the loss of the
golden ears she had overlooked and
lost. lost. What better New Year's illustration could be given to us from our church
pulpits, of the inevitable resilt of a failure to grasp life's golden oppor-
tunities as they come to us year by year Seeing, then, that our opportunities
as a rule come to us singly, not in as a rule come to us singly, not in apt to be easily scared by difficulties
are even the most st ut-hearted amongst us, what better moting year
be suggested for our opening
than that time-honored injunction to "Do the next thing"

- Do it immediately, do it with praver:
Do it reliantly, casting all care; Do it with reverence, tracing His Eland,
Who hath placed it before thee with earnest command.
Stayed on Omnipotence, safe 'neath Fits Leave all resultings. "Do the next
thing." With the same thought in mind, a
writer for children says: Although it takes so many months Yet far more quickly than. you think
The months will disappear. The very centuries have wings; The work which you intend to do,
Begin it, dear, to-day. Begin it, dear, to-day.
Within a single fleeting hour
How many minutes lie l
How many minutes hie l
But even as you wait to count
Will sixty moments fy
If you've a tender word to say,
A kindly deed to do,
Suppose you do it just this day?
I would, if I were you." H. A. B.

Words of Appreclation. H. A. B. wishes to thank Mr. Cumming,
of Blyth, for his kind words of apprecia-
ion expressed it a recent issue. Life.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

The Quiet Hour.
What Some People are Though I am still laid
Though I am still laid on the sholf
with a lame kneo. and have been forced
 tiement worlh, of courres is am still deoply
interested in the progros of the ooluge
settelement ang the the settrestean in among the poor of the great
cities. It was therefore a great pleasure to io. to read an articie on "Sottlement
Work in a Great MIftropolis," by Anna Soaton Schmidt, and I think it will be of interest to our readers, so I I will quote
from her article which deals with some from her article which deals with some
of the settiements in Old London. Sh .
one gives us a peep into one House where the
weekly party given by. the Young People's Club Is in progres. These parties are
encouraged because the work of the young encouraged because the work, of the young
men and women during the day is very men and women during the day is very
conning, and they need the oscial rolea.
ation in a bright and happy atmosphere conion ing, a brighe and happy attosphere
ation hich is provided or them.
Their homes Which is provided for them. Their
are stunfy and fororn and then are sure
to find amusement on the streets, or in low dancing halls, unless a better place
is open to them is open to them.
over hapeneng ot obe Bank Holideay. Mr.
Gladstopen the enthusiestic young warden, conduoted us to the large hall, where
about firty girls in simple white shirt. about afty giris in simple white shirt-
waists and dark skirs were wheling
gaily around with their attendant cava-
 holidays. There is nothing that the
young yolke enjoy more, so then aro wrill
ing to roturn early from their excursions young ioks enjoy more, so they are will
ing to return eably from their excursions
in the country.
oterwise they would be late in the st,
intoo bod company.
n. Inost then
.Juat then any handsome young man ap-
proached and was introduced as Protessor M..... of Cambridge, who was vistiting
the warden.
'Will
you dance with the

 the next waltz began, he crossed the hall
and spoke to some girls who were sitting on an bench, suietly watching the dancers.
Their beamine taces told of their Their beaming faces told of their pleas-
ure, as he led. frrst one, then another ure, as he led. .irst one, then an
into the magic circle. The dance
he took them to the refreshment co for a cup of coffeo and a sandwich Probably some of our readers will think
that dancing-partieg are a strange way
of eleovating the degraded. $\begin{aligned} & \text { But } \\ & \text { But }\end{aligned}$ is sater to refrain trom judg ingt until one
has had personal experience ol settlement. has had $p$
problems. The Passmore Edwards Settlement is not exactly in the "Slums" of London,
but it provides for the social needs of but it provides for the social needs of
the poople around, whose "small salaries
permit of no luxuries and after their
 herm day's toil they
pleasure in their overct.
pleasure in their overc
dimgy boarding-houses.
dingy boarding-houses.
the noble moral ind inmate
they are encourangued and helped to lea
they are
good
lives.
But the work of the Duchess of Now
castle, in her Tittle settlement of St. An
thony in whitecter castie, in her little settlement of St. An
thony, in whitechapel. is reaching an muc
lower and more deraded class. wh lower and more degraded class, "wh
must be taught, through the beautifu
 Lhat it is possible. oven for those bo
in the dens and la iris of the East End
in conquer environment and beome sell-re-
spootiong, selfsupporting members of so-
 "submerged tenth" has as yet been
reached and helped to throw off the crushing weight of despairing misery, yee
oven that is worth while. ". Statistics in
ven even that is wort that crime and drunken-
England prove that
noss have greatly decreased since the sel.
tlemente beega their work," says Miss ness have greally decreased since the sel
tements began their work," says Miss
Schnide Schmidt, the the jilis, recently torn do on
in London, are not to be replaced b in London, are not to be replaced be
causoo of tho doerease in the number
criminals. Social workers agree that th streats are the nurseries of crime, fro
which the jails have been recruited-the which the jails have been recruited-the
direct their combined eflorts toward re direct the
cuing chil flunces." What can be expected of chi.
dren growing up in the degraded
ntuo diren growing up in the degraded atmo
phere of the worst slums? They ar phere of the worss stums wney dirt, their clothes are mostly ass. and the language they hee But arter two or three years spen
the ovening classes at St. Anthony

THE FARMER'S ADVOCATE

Wonderful change takes place in the chilpersonal influence of the Duchess. Watch-
ing the pretty, bright girls as they deftly cut and planned their winter dresses in
her sewing school, and remembering their her sewing school, and remembering their
homes. where a father or mother live with three or four children in one room,
and seldom have enough to eat, it and seldom have enough to eat,' it
seemed one of God's greatest miracles that anything so pure and sweet could come out of such fourness. 'We are great believers in the inheritance which each child has received from her Heavenly
Father, if only we can provide the environment.'
"The Duchess always takes the most
depraved cases. If a man has stabbed depraved cases. If a man has stabbed
his wife, if a drunken woman is beating
he the children, Her Grace is sent for-day
then or night she fearlessly enters the worst
tenements in Whitechapel." tenements in Whitechapel." One of her
helpers-Miss Violet-says that when she first came to St. Anthony's she was terribly frimhtened in the tenement houses,
with their dark, crooked stairways and with their dark, crooked stairways and
drunken men and women. "When I heard drunken men and women. "When I heard
them quarrelling I would often turn back -then the thought of our beautiful Duchess, who goes into much worse places,
would make me ashamed of my cowardice. She is never afraid. Often she returns late at night from her home in the
West End, and walks here from the West End, and walks here from the
underground stition. She wont spend d cent on cabs it she can Walk, She saves
every penny for her. poor, sickk, people."
A"t After visiting some of the. neighbors in
their homes. Where too fted the beds were unmade, dirt piled in every corner, of bread strewed on the floor and drunken men and women in a heavy
returned to the settlement.
After all," we must not blame then
too much," said Miss, Violet. "The longer I Jive among them, Violet. "The. MThe I
wonder that any are sober. You cannot imagine what our winter means without fire or light-especially when the fogs
settle over London. The men return
from their work wet and tired. What comfort is there in a room damp from fog and rain, filled with crying children, no fire and an ill-smelling lamp Is it
not natural they seek the saloons for
"Many of these poor creatures lead beautiful lives," said Her Grace. "I often feel that we receive here more than
we give, from the noble example of those we give, from the noble example of those
who are so patient, so cheerful, in spite of their terrible poverty."
The settlements certainly are doing a great deal to bring rich and poor to-
gether, and the spiritual gain is perhaps greater to the former than to the latter. They are learning that it is the joy and
privilege, as well as the duty, of the privilege, as well as the duty, of the

strong to bear the infirmities of the weak | and not to please themselves. |
| :--- |

My Pillowmobile.
In the depths of night,
To speed in my pillow Car
To dance perchance,
Truru sumny France,
I linger long
In the Hills of Song,
travel to Mandelay ;
I board my ship
And take a trip
glorious Yesterday.
My Pillow train
Will jump from Spai
Saturn, perhaps the Moon
Then take the track Then take the track
That leads me back
the home

## Thru old Japa Beloochistan.

Thibet and gay Pekin :
And thence we And thence we creep
Thru the vasty deep
0 the haunts of the Tril To the haunts of the
My Pillow Car's
Been up to Mars

## travels both earth and air; And, like the wind,

## It leaves l, hind The City of Woe and Care.

$\qquad$

The Roundabout Club
A Country Boy in a Big City Editor "The Roundabout Club": Having seen several articles in "The ject. "How to Keep the Boys on the
Farm." Farm," I thought it might be a good
thing if the young men could see things thing if the young men could see things
in their right light. A young man comes to the city at Fixhibition time. Thanksgiving, Christmas, or Easter; he sees all
the lights and festivities and is greatly attracted by it all, but fails to realize atcracted by it an, but fails to realize
that "all is not gold that glitters," and
that after the excitement there comes a that after the excitement there comes a
calm, and everything goes back to it calm, and everything goes back to its
normal state. Now, let us take a look at boarding-house life in a large city. A young man arrives in the city and
soeks a room for himself, and after a seeks a room for himself, and after a
while finds one to his liking at from one dollar finds one to his liking at from one half a week. The lady of the house at
once informs him that if he has once inforins him that if he has any call
ers he must take them ers he must take them up to his room;
he must be out at a certain time in the morning or his bed will not be made; and he must supply his own towels and soap. He next hunts up a boanding-
house, and finds one that he thinks he likes, and pays the that he thinks hars a week
Meal hours are 6.15 a. Meal hours are 6.15 a . m. to 8 a. m.,
dinner 12 m . to 1.30 p . m., and supper dinner 12 m . to $1.30 \mathrm{p} . \mathrm{m}$., and supper
from $5.30 \mathrm{p} . \mathrm{m}$. to $7 \mathrm{p} . \mathrm{m}$. If he is
there, all well and good; if not, he has to go without, or go out and buy for
himself. He is not at home where himself. He is not at home where
móther will give him a bite, and where
the pantry is the pantry is handy.
This young man next finds employmen and his working hours are 7 a a. m. to 6 p. m., with one hour for dinner. He
rises et 6 a. m., prepares for work, and
then proceeds to his boarding-house, and then proceeds to his boarding-house, and
after breaking his fast, sets out for work. after breaking his fast, sets out for work
At noon he returns to hio At noon he returns to his room, washes
makes himself presentable, goes over fo
dinner, and then back to another five hours' work. He hurries home when hi work is done, hungry as a hunter, and
feels as if he could eat anything that was placod before him, but he cannot go and
pit right down to his meal as he could sit right down to his meal as he could
at home; no, he must go to his room wash, dress for the evening, and then of
to his boarding-house. At his old home with dear old father and mother, Betty, Maggie, Jack and Tom around the table,
the conversation used to which were interesting to be on topica this table, what is the talk? Nonsense and chatter, which is intended for "everyone in general, but no one in particular.,
and which is of no interest to him. At home he would say, "Betty, that pudding is tip top," and "Betty answers, "Pass
over your plate," and over your plate," and he would get a
second supply; here no second helpings he gets, or if he does, the black looks
of the boarding mistress drive away his appetite.
After supper he has the choice of two
things-spend the evening in his room, or things-spend the evening in his room, or
go out. The city being new to him, there there are many things to be seen
and heard. If he is moral and religious, the churches, Y. M. C. A.'s, Public doors to receive him; and if the opposite,
way, the theaters, bowling alleys, billiard way, the theaters, bowling alleys, billiard
parlors and music halls all invite him to an evening of enjoyment, while the
saloons, with lights all glittering, invite
all young men, rich and poor, good and bad, to their doom. It it has been well
named, "The Bar."

## A door to povery, a bar to wealth, A bar to heaven, a gate to hell, Who named it that, named it well.

Sunday comes around, and he gets at an early hour and gets his best dud
on, and off he goes for a walk, and the to breakfast. After that is over he may
go for another walk, or go back to his
room Maggie would sit at the piano, and ho
could exercise his vocal powers, and could exercise his vocal powers, and no
one interferw, or if he felt frisky he
could give mother a kiss and a hug, or
have a wrate have a wrestle with lack, or a good old
fashioned argunient with Tom; but here
$\qquad$ho cares a straw whether he is happy
sad, good or bad, or whether he fegl,
t home" wh has or
money at the end of the weok and keep out of our way. So he reads for a
while, and then goes to church. In the aternoon he can go to Sunday schoon not as he pleases, but there is not much thurch at night, and after church to his onely room, there to go to bed, and get
eefreshing sleep to propare him for anrefreshing sleep to prepare him for an
other week of work and thankless toil. At home, after church, they would around the big, old-fashioned stove, while cuss the sermon, and bring to memory old scenes and faces; mother would then bring out a pan of good "Snows," or
Northern Spies, and oh! what a munch-ing-match would follow, and then off to ing-match would rillow, and then off to
rest. ALL THIS HAS NOW PASSED OUT of HIS LIFE.
This is but a faint picture of boarding-
house life, with no sympathy, love or couse life, with no sympathy, love or
care, with only strangers, and no one in whom to confide a care or sorrow. True, when a young man comes to the city
everything is new to him, but it soon becomes monotonous. The lights do be burn as brightly, the wheels do not turn as fast, the hurry and bustle become weary ploddings, and the young man wakes up to find that life in a large city
is not all that he anticipated, and he

## 'Mid pleasures and places though we

 may roam,Be it ever so humble, there's no place like home ! A charm from the skies seems to hat-
low us there, Which seek through the world, is ne'er met with elsewhere.
Home ! home I sweet home

An exile from home, splendor dazzles in vain ;
Oh, give me my lowly thatched cottage The birds singing gaily, that came at Cive me them, and the peace of mind dearer than all
Home ! home sweet home

## Toronto. "raoul

We have been much interested in the above letter. The condition which it
describes is one which has been experienced, perhaps, by every young man or
woman who, going into a big city woman who, going into a big city, has
been obliged to face the barrenness of the ordinary boarding-house........... We
should be much pleased to others who have had experience in city ife-the kind of city life, we mean, in
which the way has not been made smooth by the presence of city friends or rela-tives-the kind of city life which must be looked forward to, for a time, at least, alone, unheralded, and unknown. ... To one point of Raoul's letter, however,
we feel like taking exception. Surely the in the same category with the atevill and saloon. There are, ostensibly, some "advantages" in the city of which those with a little money to spend, may avail is assuredly one of them. There are,
however, music-halls and music-halls, in some of which even music is prostituted. Possibly it may be to such as these that
Raoul refers.
'Keep the South Winds Blowing
Editor "Roundabout Club": I am very interested in the subjects
touched upon. I arree with John M. C. that the girls spoil the boys. On one
,ccasion very recently ${ }_{a}$ fine. sensible boy dropped a lady (?) friend because
she was "too spoony." I was delighted to read the rules on ve should be our best all the time, not herely when in society.
Having been happily married for six
 Whappy marriages. "Kilowing All the Time." the South My little daughter of five has far too.
prat a distance to walk to school. As. Proat a distance to walk to school. As
1 was a school teacher. we decided that Was a school teacher. we decided that
an take little lessons at home for two I- three years. How I enjoy teaching Aer: lt has given me new ambition. As "Teacher, Nova scotia," emphasizes

JANUARY 7, 1909
f my failings is alweys wanting urry things. Hoping you may long continue this ex
ceedingly useful Club, I remain, Grey Co., Yours very truly, $\quad$ ELlen. Another Country Lad's Opinion. Editor "Roundabout Club": Farmer's Advocate" for a very few years heartily agree with Nero and Jane in your issue Nov. my opinion will not amount to much, ning to glance around for a mate to take found a new home, I am compelled to
say that the girls I would choose are as
scarce as hen's teeth, or nearly as scarce. say
scarce as hen's teeth, or nearly as scarce.
During the past two years I have lived in three different districts, and it seems
o me that life is just a game of chance, each one trying to deceive someone else
Perhaps I am wrong. I hope that I amm, but there is a certain lack, it seems
to me, of Christianity in the youth of our land.
My ideal is Christ, but I know that I
fall far short of the ideal myself, and in fall far short of the ideal myself, and in
choosing a helpmate I look for one whose ideal is the same as mine. "Resolved,
A debate was held once, that single blessedness, was to be pro-
ferred to married bliss," and the decision was awarded to the affirmative because they proved that nine out of ten mar
riages were not happy. Now, if young
people would take Christ as an ideal people would take Christ as an ideal
there would be fewer unhappy marriages.
CRAZY KID.

Self - made Men vs. Women - made
Men. We quite agree with Elaine that there
are different kinds of young men, and are different kinds of young men, and
fully appreciate the difficulty in ade
quately defining their most admirable quately defining their most admirable
qualities. But it is regarding the state ment "that young men are to a large,
extent what young women make them," that we desire to speak with Elaine.
She does not tell us whether she performed the experiment personally, an can produce for our examination a brand
of young men that are guaranted to
compete favorably with other makes of $\begin{array}{cc}\text { young men. Perhaps, } & \begin{array}{l}\text { however, she } \\ \text { means it for a theory. } \\ \text { Living as we }\end{array} \\ \text { it }\end{array}$ means it ore a theories, we all have a
are in an age of theores and she is dobt
right to our theories, less quite conscientious in her assertion.
At any rate, we cannot help feeling touched by her forgiving spirit towards
the shortcomings of the amateur young man. We can almost feel the throb o her kind, compassionate heart, as it goe
out in sympathy to the shortcomer. We out in sympathy to the tle, purring voice,
can almost hear her gent
saying as she occasionally runs up against saying as she occasionally. runs up againg
an embryo young man.. "Poor thing an embryo young mat then 'it' is not re-
What a pity
sponsible for its forolishness and simplic-
st was ensponsid didn't make itself. It was en
ity. It dirent, at the fate of 'its' environment.
tirely at tirely at the fate of wits enfortunately
and that environment was
the society of a very foolish and simple the society of ladies. They have sapped
class of oung lath int and let nothing
that brilliant intellect and but the smoothly-combed cranium. So
it is not in any way responsible for its conduct." : Elaine. We, who are true
No ! no
men thave yet a spark of the ancient fire men, have yet a spark vins, and couldn't of chivalry in our veinh, ander the terri
allow the fair sex to shoulde
ble responsibility of that "imitation man."." He is made in our image and
He
our brother, and no one feels the fac our
more keenly, than we do "that he per
sists in walking around on his hind legs dodging the authorities, and keeping ou of the menagerie." Imitation is show
sincerest form of fatery, so we show him a good example and ther there
Elaine. We quite agree with you that in the
many species and sub-species in think that
genera "Adolescens," but thin when subjected to a rigid anatomical ex amination, like all other vertebrates, they can be classified, the two panle-wick
orders agreed upon being the cand
vertebrate and the cast-iron vertebrate. The candle wick vertoratat has alreat

THE FARMER'S ADVOCATE
made man, the man of worth, the man
of wisdom, the
man of character, the man of charity.
Our humble conception of the ideal
young man is as follows: He is a man
who has ideas and principles who has ideas and principles of his own,
that he will not permit being waft-
ed this way and that by ed this "way and that, by the balmy
zephers of "Public Opinion," or that he
will not allow to be infringed upon by the will not allow to be infringed upon by the
fippant frivolity of the socalled modern
society, in which the unsuspecting sociely, in which the unsuspecting young
man is so often made the dupe of femi nine coquetry. He is gentle and kind,
and respects the opinion of others as he and respects the opinion of others as he
does his own. He is courteous to every
He one, and abhors anything of a hypocrit ical nature. Coupled with the fact that
he is just as much a man in his over he is just as much a man in his over-
alls as he is in his Sunday best, we have
before our win admiration alike from both sexes. Our ideal young man should be made of
the real fiber that will ever win for him the real fiber that will ever win for him
the honorable term, "a gentleman."" If
he possesses these qualities, hio. whole he possesses these qualitites, his whole
nature will be characterized by that physical and mental stamina that is
bound to win for him the attention and bound to win for him the attention and
approval of the fair sex. Latsly, he
must live the Christ-life, then he is worthy of the love of the noblest and [Will this very interesting "Gale"" kind-
What about a new discussion now, on
another phase of this subject ? Should people of opposite tastes and tempera ments marry? Or is more happiness to
be found in marrying someone "like one's se found in marrying someone "like one's
self " Let us hear your opinion on

Our Literary Department
Editor of "Literary Society"
Perhaps no one appreciated more than
Society, the articles written some time ago in your valuable paper, on the "Or evidence of the good influence of such societies on rural communities, I am sending a short history of our five-year-
old society.

A feeling for the need of better educaspeaking, elocution, etc., was evident
among the young people of our section, and a mass meeting was irst called
constitution, rules and regulations were
drafted, and the necossary offlcers elected,
drafted, and the necessary officers elected,
consisting of the President, Vico-President
Committee was appointed to arrange fo
debates, etc., and a Literary Programme Committee to arrange a literary or musiand a complete literary or other interesting programme one night of each month. To this committee a number of the fair
sex was appointed, who not only consex was appointed, who not only con
tributed towards the literary and musical part of the programme, but frequently
treated the society to refreshments, greattreated the society to refreshments, great-
ly aiding in making the evening a very Y aiding in making the
social and enjoyable one.
The Frecutivion
The Executive, comprising the Presi-
Tent, Vice-president. Secretary-Treasurer dent, Vice-president, Secretary-Treasurer, jects of debate for a period in advance,
hoosing the captains of the respective choosing the captains of the respectlo become acquainted with all the subjects digested reading. Some friendly warfar
has been waged on such subjects as "C $C$
has been waged 'on such subjects as "Cost
ern and Western Canada," "Women"
Franchise," "Ill-tempered Wife vs. Good
atured,
Slovenly Wife." We aim in
each case to get debatable subjects, and
our rules forbid the reference to religion
or politics.
T he programme of debates is occasionally
varied by mock trials, mock parliaments,
and addresses from prominent outsiders. and addresses from prominal membership fee of 25 cents is charged to meet running expenses for
lighting, minute books, etc., the cost of beating the school-house where the meet
ings are held being borne by the School ings are held being borne yer of the
Board. $\begin{aligned} & \text { During the second year } \\ & \text { society's existence, a musical instrument }\end{aligned}$ society's existence, a musical instrument
was thought necessary, and a Dramatic Club was organized, staging with success
"/ The Merchant of Venice," " Thomas A.Becket." "Columbus at the Court of
Spain," and, together with the efforts of


The Ingle Nook.
Not rong ago, we were at the reopening it a big school after holidays. Wo set pen door led into an assembly hall, where the Principal himself was endoa-
voring to bring order out of a chaotic vasing to bring order out of a chaotic
masiggling humanity. six hundred boys and girls noisily awaiting orders
as to what "Forms" they should take. Bang ! Bang ! went the bill; then, in a moment, dead silence; then the Princi-
pal's voice calling out in stentorian tones: " Girls who are going up fir coachers, and whose names begin w."
from A to Ho go to Form so-and-so."
"Bizz-z-z | Birr-s. clatter ! Immediately the uproar began, like a thous
bees-or worse.
Then
Then Bang : Bang 1 of the bell
again; another silence; another order, again; another silence; sother order, were disposed of
"My stars ! wlo
"My stars ! who would be a teacher!" whispered an onlooker.
At the same time there was reason to admire a little the expedition with which
so large a crowd was disposed of so large a crowd was disposed of.
These boys and girls were noisy between times, but when the season for silence
came they were absolutely silent. Perhaps under a longer strain they would not have kept it up-probably not unless
under compulsion of interest or good under compulion of interest or good
government-I do not know, nor am 1 It
at at the present juncture erpecially
anterested.
ing incident had brought up interested. The incident had brought up
a subject (and that is what wo paper a subject (and that is what wo paper
folk are always after), viz: "Audiences."
Have you Have you ever noticed how inconsisder-
ately some people behave in an audience? ately some people behave in an audience?
I remember sitting once, during a concert, behind a woman (a minister's wite
she was, too), and her daughter, who she was, too), and her daughter, who
never failed to set up a glggle whenever a certain individual appeared on the
stage. He was a tenor, rather an
apology for a tenor to be sure, but not people to glance at each other, put up
their handkerchiefs and simper, every time he went iat on a high note. to sit behind a big fat man who actually rolled up his overcoat and sat on it all through the performance. From his fine view of everything. Our memory of the evening is confinged chiefly to a blank
wall of black broadcloth. It is strange how many people who would not be the for the world anywhere else, seem to feel that rudeness is
ost sight of in a crowd. Nor is the propensity confined to the present age.
Writing on a meeting of the British AsWriting on a meeting of the British As
sociation half a century ago, Harriet sociation half a century ago, Harriet
Martineau said: "I am sorry to say Sir John Herschel himself so far succumbed to the spirit of the occasion as
to congratulate his scientific brethren on to congratulate his scientific brethren on
the 'crowning honor' among many of the presence of the fair sex at their sessions That same fair sex, meantime, was there
to sketch the savants, under cover of to sketch shaw, or little parasol, or to manste, shawl, or time by watching and quizzing
pass the
the members. Scarcoly any of the ledies the members. Scarcely any of the ladies
sat still for half an hour. They wan sat still for halk an hour. They wan-
dered in and out, with their hall-hidden sketchbooks, seeking amusement as their grandmothers did at auctions. I was, and I wished they had stayed at home' A public meeting nowadays is not like ly to be troubled by so overwheming a the surer of escape from people whe fidget, whisper, and giggle.
When it is remembered

$$
\begin{aligned}
& \text { fidget, whisper, and giggle. } \\
& \text { When it is remembered that the one obe } \\
& \text { ject of going into an audience at all in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { joct of going into an audience at all is } \\
& \text { to listen, the incongruity of such, be }
\end{aligned}
$$

$$
\begin{aligned}
& \text { kindness shourd bo enough to indicate } \\
& \text { the rudeness of it; no groater glap in the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the rudeness of it; no groater slap in the } \\
& \text { face can be given a lecturer or musiction }
\end{aligned}
$$

face can bo give a to attontion.

$$
\begin{aligned}
& \text { than failure to pay attention. } \\
& \text { Paying attention when attention is ro } \\
& \text { anirad is. in short. the essence of what }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Paying attention when attention to } \\
& \text { quired is, in short, the esence of whet } \\
& \text { is commonly" called "good breeding:" }
\end{aligned}
$$

$$
\begin{aligned}
& \text { is commonly' called "good breoding," } \\
& \text { whether in an audiency or elsewhere. }
\end{aligned}
$$ Fheilure in it is onough to stamp one at

once to all beholders, as either unkind once to all
or untaught.
The geeson for audiences "lu upon
us." Mon women, at. least, us.
watch ourselves that wo will give no
one cause to be "heartlly ashamed of
D.

Women's Institute Convention at Guelph. The discussion of the "xativ Problem"
proved to be one of the most important
of the convention. Professor Doen, of of the convention. Professor Dean, of
the O. A. C., spoke firat. Mill prothe O. A. C., spoke arst.
ducers, he said, have a do perform, but the consumers also have a duty. They should bear in mind that milk if
one of the most valuable foods, but also that it is one of the most easily conthat it is. It of thould be kept in perfectly clean vessels. A paramine-lined paper bottle has lately been invented, elipeoiall.
for use in the towns, in which mill mas for left several days without danger. Whe the milk is used the bottle is burned. Milk should be kept as cold as possible and in covered vessels. When left open
it is exposed to all sorts of dangers and flavors from the eir. . II milk has not been pasteurized by the millman thit
should be done at the house. Put it in a porcelain vessel, heat over the fire,
stirring frequently, untll a temperature of 160 freguently, until a tomperature
of
18
reached, then cover, and cool.
Mille tal Milk taken to a sick-room should not
be returned to the dining-room, or uused
by the patient or anyone else without heing agnin pasteurized. When a porthould not be poured back again into the vessel containing the main supply. Prof. Dean closed by saying that milk at 10 cente a quart it is the cheapest food that comes into a house. "o If I were making up a man's rations," he
said. "I would feed him at least three times a week on a bowl of bread and milk." He always took that when Mrs.
Dean was away and he was keeping Dean was away

Professor Edwards, also of the O. A.
.) followed in an address on the "Bac


In concluaing, may we pause to con-
gratulate the ladies on the marked imgratulate the ladies on the marked imwhich was evident throughout the con-
vention. One after another the delevention. One after another the dele-
gates (we do not refer at all to the
professional speakers) got up as though professional speakers) got up as though
hey had something to say; and invariably they said it, calmly, logically, with-
out wasting words, without the slightest indication of mere ". showing off," or talking for talk's sake. The Women's
Institute, in short, seems to have gripped Institute, in short, seems to have gripped
the fact that it has a work to do, and the fact that it has a work to do, and
come to the determination that it will
do it Upon one or two other points, however, the convention was open to criti-
cism,- - frst in the lack of precautions to ensure ventilation. As a man who came in near the end of one of the sessions
remarked, the air was "thick enough to remarked, the air was "thick enough to
cut with a khife" most of the time. It is to be hoped that next year the win-
dows may be kept open an inch or so at the top.
Again,
Again, much annoyance must have been
given to some of the speakers on the given to some of the speakers on the out of women-in the very middle of
some of the addresses-to catch trains. It might be misinterpreted. Indeed, heard one of the speakers-a very interesting speaker, too-remark after the con-
vention that he noticed he had made very "moving" speech. . . Next year, ladies, please be so good as to leave, if you have to, between the addresses, and
if a clock is not provided in full view to if a clock is not provided in full view to enable you to be easy about the time,
clamor for one ; it will be given you if
you ask for it.
D. D.

## Re Held-over Letters.

$\qquad$ over again. Now that the convention
report is off the tapis, we shall be able

## Current Events.

Thirty families of Hebrews have
$\qquad$
Plans are being made to hold a
great Centennial F'air at Winnipeg in 1912.

The Grand Trunk Pacific Flevator Company has been incorporated, with

An antitoxin against hog cholera has been discovered by experimenters

The Social Democrats left the Duma in a body recently because of the
suspension of two of their nembers.

A blizzard which seriously blocked traffic for a time swept over the wreek. Isles and Western Europe last

Tom Longboat, the noted Onondaga runner, was married Dec. 28th to
Miss Lauretta Maracle, of the Deser-

## onto Reserve.


with what Dr. MacMurchy had said in childreh. When possible, mothers should nurse their children. Cow's millk, being too strong for the stomach of the child
should be diluted in the right propor-
tion. Children are to-day appreciated more than over before, and yet every year thousinds of children die who might FOOD VAL Vep care.
$\qquad$ closed the session by one of his statisically convincing talks on the food value
of mills compared with the values of other foods. "If the true value of
mill as a food," he said, "were more
fully appreciatod, it would be used much mòre freely." To be really valuable, even sale, it must be clean. Being one
of the most favorable media for the growth of bacteria, it is particularly
sibject to contamination, and so must be given the best possible care.
Milk contains all the ingredients requirdid to nourish the bodys that is, it furnishes the materials which build u
the body and keep it in repair (protein) the body and keep it in repair (protein)
also those which supply keep it warm, and energy to do its work
( (earbohydrates and (carbohydrates and fat). The protein, fat, and carboydrates
may be oxidized or burned in the body, and the heat which they will produce is irequently used as a basis for comparison
of foods. Unfortunately, this does of foods. Unfortunately, this does no
give us an entirely satisfactory basis for comparing the nutritive value of foods, for the protein is absolutely essential for
the formation of flesh, and yet has a low the formation of flesh, and yet has a low
fuel value. . Taking all things into consideration, however, possibly a state
ment of the amount of energy a food is capable of producing is the best basis
upan which to compare the nutritive upan which to compare the nutritive
yalue of foods; and in order that we mayy
heve some measure for expressing the anve some measure of expressing the
amore a given substance capable of producing, the "calorie" is
telean as the unit. Roughy speaking, a teken as the unit. Roughly speaking,
calorie is the amount of heat required to
raise the temperature of one pound of water \& degrees Fahr.
a certain amount of protein, fat, and carbohyydrates in his daily food, and that
these ingredients combined should these ingredients combined should furnish
approximately a certain number of calories of heat. Any food which will furnish all the nutrients in the right pro-
portion to supply the needs of the body in a digestible and palatable form, that
is not too bulky, and at a moderate is not too bulky, and at a moderato
cost, is a complete food. Milk is fro quently spoken of as a complete food. does not contain enough carbohydrates nearly fulfils the requirements, but it is a little deficient in protein. Possibly catmeal comes the nearest to being A varied diet is, of course, necossary,
but we should know which of our common foods furnish the most protein, fat,
and carbohydrates for the least money The following table will give some idea of food values. It will also be seen that
certain combinations of food valuable for nutrition and energy, e.g. milk combined with bread forms a very
valuable food; to use butter with bread is also reasonable; while rolled oats and cream form one of the very best diet
aries. Considering its food value, we
could afford to pay much more for mill than we do. It is, in fact (in combina-
tions) tions. one of the very cheapest foods
for daily use :
$\xlongequal{\text { Fivel }}$

It 18 ostimated that $4,000,00$ Christmas trees were used in the has just passed.

The Canadian Northern Railwa Company has given notice of applica tion of a number of new branch line Northern Ontario

A sea-fight has occurred off the coas of Venezuela between adherents o crew of 'a gunboat working in the interests of the new President, Go-
mez. About twenty were killed and
fifty wounded y wounded

The British steamer Tai On was captured recently by two Chinese is believed The reason for the captur is believed to lie in the fact that the
steamer some time ago ran down junk and drowned a theatrical com pany on board.

A conference, looking toward the conservation of the natural resources the White House, on Feb. 18th, has been proposed by Fresident Roose velt, who addressed letters in regard frid Laurier, and President Diaz, Mexico. Canada has agreed to the proposal, and will send representa-
tives.

Owing to disquieting criticisms in regard to bringing the Panama
Canal to a successful completion, Mr Taft will proceed to the Isthmus to make a personal investigation at an
early date. Much dissatisfaction is expressed at the under-estimation of the total cost, which was at first placed at $\$ 145,000,000$, but which is now estimated by engineering ex-
perts at a minimum of $\$ 550,000,000$ It is now known that considerably
over 300,000 lives were lost in the terrific earthquake which occurred Sicily. Notwithstanding the fact that enormous sums of money were himself subsent, the King of Italy the Pope $\$ 200,000$, the sufferings the people have been intense ish, French and Russian ships have refugees and injurice away, carrying course of the Straits of Messina ha been so altered and deflected tha dangerous. There are indications to show that the vicinity of Mount Etna Nount Etna itself is quiet, but

Not Atheists Now.
where one of the posts of the British army porarily stationed, an old sergeant was
ordered to ascertain ordered to ascertain to what religious he joined the party told off for that particular form of worship. Some of the men had no liking for
church, and declared themselves to be atheists. But, the sergeant was a Scots man and a maǹ of experience. "Ah weel," said he, "then ye hae no need to
keep holy the Sabbath, and the stables keep maly been claned out lately."
And he ordered them to clean out the stables.
This occupied practically the whole day,
and and the men lost their usual Sunday
afternoon's leave Next Sunday a broad smile crept over
the face of the sergeant when he heard that the atheists had joined the Church
"Dolan." said Mr. Rafferty, as he looked up at the city post office,
"what does them letters 'MDCCC"CTTT mean?"" They mean eighteen hundred and "Doty sevene." "ame the query after "Dolan," came the query after a
Whuyhtful pase, "don't yez think
they're. overdoin" this spellin' reform


Feeds the Hair! 4, wisw
 Hair Tonic



 trolyss. Satisfaction assured. Get Bookict
Fils..
Hiscott Dermatologleal Instiltute 6I Collese Street, Toronto. Ont Established 1892
Consumption

Woman's Sympathy Are you discouraged? Is your doctor's
bill a heavy shancial ioad? Is your pain
a heavy physical burden? I know what these mean to delicate women-1 have
been discouraed too but learned ow to
cure myself. I want to relieve your burcure myself. 1 want to relieve your bur
dens. Why not end the pain and stop th
doctor's bill thin dion this for you an
will if you will assist me

 ent. MiRS. F. E CURRAH, Windsor, on

6166:-Gumpl that proung girls for young girls that pretty guimpes are
always needed. This one is novel and attractive, yet quite simple, and allows
variations of several sorts. All-over lace, tucked, fancy and plain nets, lingerie
materiak, chiffon, thin silk and everythio of the sort is appropriate for the facing and sleeves ; if liked, the guimpe can be made of one material throughout. The quanticy of matear size is $2 t$ yarrals 21 , if yards
36 inches wide with 3 yards 18 or $1 \$$ 36 inches wide with 3 yards 18 or 18
yards 44 inches wide to make as illustrated.
The above patterns will be sent to any subscriber at the very low price of ten
cents per pattern. Be careful to give
Correct Number and Size of Patterns Correct Number and Size or Patterns
Wanted. When the Pattern is Bust Wanted. When the Pattern is Bust
Measure, you need only mark 82, 34, 36,
竍 Measure, you it may be. When Waist
or whatever it
Measure, 22, 24, 26, or whatever it may Measure, 22, 24, 26, or Whatever Me Misses or Child's pattern,
be. When Min Write only the figure representing the
age. Allow from one to two weeks in age. Ahe to fill order, and where two num-
which to
baist and skirt, enbers appear, as for waist and skirt, en-
close ten cents for each number. If only sufficient. "Fashion Department," "The Address: "Fashion Department,",
Farmer's Advocate,"
The Farmer's Advocate'

collar and cuffs.
6180:-The perfectly plain outing shirt It the one that all boys like. It is comfortable to wear, while it is so easily made that all mothers will be glad to
welcome it. This one is shown in tancolored silk - finished chambray, but all
shirting saterials are suitable, Stripe shirting matorials are s in voie. Stripes as well
and figures are greatly in as plain colors, and flannels must be included in the list as well as cotton and
linen fabrics. Fine percales, madras and linen fabrics. Fine percales,
linen are, however, favorites. The quantity of material
The medium size (14 veirs) 24, 3\| yards 27 or 2 vears) is \& yards yo


5168 Misses' Guimpe

A southerner, hearing a great commotion in his chicken-house one dark inght, took his revolver and went to "Who's there?" he sternly demanded, opening the door.
"/Who's there? Answer or I'll A trombling voice from the farthest '"'Deed, sah. dey ain't nobody hyah

## The GoldenDog|BRONCHITIS

(Le Chien D'Or.)

## Comanlan Histerical Romance

 Copyright, 1897, by L. C. Page \& Co. (Inc.) [Serial Rteghta Securred by the Wm. Weld Co., Ltd.,CHAPTER IV.-Continued. "/ It is a strange mystery; But I lique," remarked Amelie, "I feel there is sin in it. Do not touch it.
It will only bring mischief upon you It will only bring mischief upon you
if you do!", if "you do !", Mischief ! So be it !
will knt I
wow the worst! The Intendant is deceiving me! Woe be to him ard her if I am to be their inme, Amelie, to discover the truth of "this secret ?" I? I pity you, Angelique, but it were better to leave
this Intendant to his own devices." "You can very easily help me if you will. Le Gardeur must know
this secret. He must have seen the his secret. He must have seen the
voman-but he is angry with me, woman-but he is angry with me,
for-for-slighting him-as he thinks -but he was wrong. I could not avow to him my jealousy in this
matter. He told me just enough to matter. He told me just enough to
madden me, and angrily refused to madden me, and angriy refused to fatuated-he called it-over other people's love affairs. Oh, Amelie,
Le Gardeur will tell you all if you ask him !"' que; 1 canhatul topic. At ony rate I need time to reflect, and will pray to be guided right.
pray you wray not at all! If you
ou will say the ond is wicked, and the means dishonorable. But find out I will-and speedily ! It will only be the price of another dance with
the Chevalier de Pean, to discover all 1 want. What fools men are when they believe we love them for their sakes, and not for our own !" as she regarded them, of her school companion, took her arm to wall to and fro in the bastion, but was not
sorry to see her aunt and the Bishop and Father de Berey approaching. " "Quick," said she to Angelique, - smooth your hair, and compose your looks. Here comes my aunt too !" Angelique prepared at once to meet
them, and with her wonderful power of adaptation transformed herself in a moment into a merry creature, all light and gaiety. She saluted the Bishop in the frankest manner, and at once accepted an interchiange of
wit and laughter with Father de Berey.
"Shaghter with Father de ever, in the Church's company;" she said, "s she had her morning calls to Amelie and the hand of the Lady de Tilly, and with a coquettish courtesy oo the gentlemen, leaped nimbly into ed horses like a practiced chatioteer and drove with rapid pace down the crowded street of St. John, the obtion of the men, and the envy of the women as she flashed by.


Old St. John's Gate, Quebec. Amelie and the Lady de Tilly, hav

Bronchitis is generally the result of a oold onused by exposure to wet and inalement wather, antion of the bronohiol tobee The Symptoms are tightness acrose The Symptoms are tightnoss acrosi who chost, aharp pains and a thiok phlegm at firat white, but later of a greenish of yellowith color. Noglooted Bronchitis is one of the most general canses of Consumption. Cure it at once by the use of

 Woodle Norwy Pine Syruy for my littld andly you oould hear her from one room to
the other, bat it whas not long until
could noe the offoot your medicino had on eculd noe the oftoot your modicine had on her. That
"as gho had a bed oold thin wintor, but in Wood's Norway Pino Syrup, Itried a hom node reooipt whith I Iot hrom a neighbde
 The prios of Dr. Woodte Norminy Pine Byrup pillow onte por botile, It in put ap
 tho may Pine Syabitita"
INSURE


Just as you Insure your Buildings. The loes of a stallion represents
 place the lost nimant whether dee

 Ilion, as well as your Ilorses, Mares, Coits, Funlies , Buecp, against death by ccident or disense.
booklet sent free on demam. Agents wanted in unrepres nted surgeon.
GENERAL ANIMAL INSURANCE CO. OF CANADA,
Dept. B. New York life eullalms.
MONTREAL





16 Points in the Sellirkt Staft Stay Fences and Getee possessime Undeniable
Superiority. Superiority.
Sellirk Fence Agents make money and build business. Sellirirk Fence Users
the best value for their money and are satisfied customers the best value for their money and are satisfled customers
We will send you full particulars oo receipt of the followine coupon properly filled out.
Selkirk Fence Company, Hamilton, Can.
Selkirk Fence Company, Hamilton, Can. I would like to know more about the Sellirkl Fences and Gates Send me a free sample
Name..


Sherlock-Manning Organ Co., London, Ont.
GET ON TO THE GREAT DAIN LINE.

And demand that your hay be pressed by a Dain Press. No other press makes as
nice bales, is as easy on the horses and men, nor has as large a capacity. Buy or nice bales, is as easy on the horses and it ithe most economical of all presses. Write for catalogue and DAIN MANFG. CO., PRESTON, ONTARIO.

BOOKS FOR ENTERTAINMENTS Hillhurst Hackneys and Shetlands

Dept. E. Toronto, Canada. PLEASE MEMTION THIS PAPER
among their people, proceeded their city home -their seigniorial residence,
capital.

CHAPTER
The Itinerant Notar
Master Jean le Nocher, the sturdy ferryman's patience had been severe
ly tried for a few days back passing the troops of habitans over the St. Charles to the City of Quebec. Be
ing on the King's corvee, they claim ing on the King's corvee, they claimroyal service; they travelled toll-
ree and paid Jean with a nod or a free, and paid Jean with a nod or a
jest in place of the small coin which jest in place of the small coin which
that worthy used to exact on ordinat worthy nations
This morning had begun auspicious-
ly for Jean's temper, however. A ly for Jean's temper, however. A
King's officer, on a gray charger, had just crossed the erry, and from toll which was the right of all wearing
the King's uniform, the officer had the King's uniform, the officer had
paid Jean more than his fee in solid few kind words to the ferryman and
a polite salute to his wife Babet, a polite salute to his wife Babet,
who stood courtesying at the door ". A noble gentleman that, and a
real one!" exclaimed Jean, to his buxom, pretty wife, "A and as generous as a prince! Jean flipped up a piece
given me." of sinver admiringly, and then threw
it into the apron of Babet, which she spread out to catch it.
Babet rubbed the silver piece caressingly between her fingers and up-
on her cheek. "It is easy to see on her cheek. "It is easy to see
that handsome officer is from the Castle," said Babe nice-looking he is too, with such a sparkle in his eye and a pleasant smile on his mouth.
He is as good as he looks, or I am He is as good as he
no judge of men.""
". And vou are an excellent judge of men, I know, Babet," he replied,
"or you would never have taken
"or me !", Jean chuckled richly over his
own wit, which Babet nodded lively approval to. "Yes, I know a hawk
from a handsaw," replied Babet, " and a woman who is as wise as
that will never mistake a gentleman, Jean! I have not seen a hand-
somer officer than that in seven years! "'
" He is a pretty fellow enough, I He rides like a field-marshal, too, and that gray horse has ginger in his heels!" remarked Jean, as the
officer was riding at a rapid gallop up the long, white road of Charle-
bourg. "He is going to Beaumanoir, belike, to see the Royal In-
tendant, who has not returned yet from his hunting party."
"Whither they went three days ago, to enjoy themselves in the chase and drink themselves blind in the
Chateau, while everybody else is Chateau, while everybody else is
sumnoned to the city to work upon
the walls!" replied Babet, scorniulthe walls! '" replied Babet, scorniul-
ly. "I I'll be bound that officer has gone to order the gay gallants of
the Friponne back to the city to
take their share of work with honest
 fiend fly away with the Friponne!
My ferryboat is laden every day with the curses of the hatitans re-
turning from the Fripome, where
theo chout they cheat worse than a sasque
peciler and , without a grain of his
politeness! The Friponne, as it was styled in
popular parlance, was the iinmense Magazine established l,y the Grand t claimed a monopoiy in the purports in the Colong. Its privileges nd decreos of the roval ordinances atraty manner-and to the projudice
$\qquad$
$\qquad$
sufficiently indicated the feeling the people whom it at once chea and oppressed.
They say, Jean,"' continued bet, her mind running in a practical and womandities and good b gains, "they say, Jean, that Bourgeois Philibert will not give it
like the other merchants. He set like the other merchants. He
the Intendant at defiance, and tinues to buy and sell in his own comptair as he had always done, is
spite of the Friponne." spite of the Friponne."
"Yes, Babet, that is what they
y. But I would rather he stood say but I would rather he stood he is to fight this Intendant-who is
a Tartar, they say." a Tartar, they say
"Pshaw, Jean! you have less
courage than a woman. All the wo courage than a woman. All the women are on the side of the good
Bourgeois; the is an honest mer-chant-sells cheap, and cheats no body! '" Babet looked down very
complacently upon her new gown complacently upon her new gown bargain at the magazine of the Bourgeois. She felt rather the more
inclined to take this view of the question, inasmuch as Jean had grumbled, just a little -he would not
do more-at his wife's vanity in buying a gay dress of French fabric, lik the parish were wearing homespungrogram, or linsey-woolsey-whether at church or market.
Jean had not the heart to say anFrench gown. In truth, he thought she looked very pretty in it, better than in the grogram or in linsey He only winked knowingly at Babet and went on to speaking of the Bourgeois.
""They say the King has long hands, but his Intendant has claws
longer than Satan. There will be trouble by and bye at the Golden Dog-mark that, Babet! It was only the other day the Intendant as they crossed the ferry. They forgot me, or thought I did not hear them; but I had my ears open, as always have. I heard something
said, and I hope no harm will come to the good Bourgeois, that is folk I don't know where Christian
him ," said deal if anything happened reflectively. "We him, said rabet, reffectively. "We worths at the Golden Dog. Some of the lying cheats of the Friponne his being a Fluguenot. But how car that be, Jean, when he gives the best weight and the longest measure of
any merchant in Quebec? is a merchan Ruevec? Religion d his head with a per plexed air. "I do not know whether
he be a Huguenot, nor what he be a Muguenot, nor what a
Huguenot is. The Cure one day Huguenot is. The Cure one day
said he was a.Jansenist on all fours, Waich 1 suppose is the same thing, you or me. lut a merchant who a gentleman, and kind to poor folk and gives just measure and honest
weight, speaks truth and harms no body, is Christain enough for me. A bishop could not trade more hongeois is as reliable as a king's."
"The Cure may call the Bourgeois what he likes," replied Babet, "but city if the good Bourgeois be not
one; and next the Church, there is not a house in Quebec better known
or better liked by all the habitans or better liked by all the habitan
than the (ioden Dog; and such bar gains, too, as one gets there!"' settles, many a knotty good bargain "And with a man, too, if he is
wise enough to let his wife do his marketing, as you do.. Jean! But arr arms akimbo and gazed.
A number of hardy fellows came

JANUARY 7, 1909
Niltrate of Soda Mitrate Sold in Original Bags
NITRATE AGENCIES Cn. ${ }^{6} 64$ Stone Street, New York
 Adaroen oftrice Mearrat I Orders for All Quantities Promptly
Filled-Write for Outations































 B. F. BELL, DELHI. ONTARIO

QUESTIONS AND ANSWERS






Miscellaneous
HORSE WITH TONGUE OUT. What can, be done to stop a horse fro
ticking out his tongue while working ? Ans-This is a habit that is very dimm
calt to break a horse from. Some have
and Sound cure in continued use
for the purpose. and others
ose of a close-ituny murzl disposal of straw Could a farmer who sells his straw bo
called up-to-date, or would it be betior policy to, scatter it over the field?
 straw at high prices and to maintain the
supply of. plant food and humus by pur hasing artificial fertilizers or barnyard occasionally, he could not be placed out
of the up-to-date class. In very few cases is it advisable to scatter stra
pver the field. In heavy and compar (ively moist soils this practice may be
good, if limited quantities are plowe Good, if limited quantities are plowe
under, but it is much better to use straw after it has been turned into manure by sorne class of live stock. No objection
can be taken to a man's method of disposing of his straw, provided always he keeps his farm in good condition, FLAX CHAFF-FEEDING QUES1. What is the feeding value of flax
chaff compared with timothy hay, if buying, for rough feed?
2. Would you feed it alone, or mix
with silage, roots, or other chaff? 3. silage, roots, or other chaff ?
3. What amount each of the following make a balanced ration for milk cows
and feeding cattle, to be finished on
grass and a
grass : Silage, roots, bran, oat chop,
with oat straw, timothy and clover hay ? 4. What is the name of the firm that
make the fanning mill; I think it is made in Detroit? R. J. P.
Ans. - . Henry says: "Where flax is Erown for the seed, the straw, or haulm,
is generally wasted. Stockmen who have fed flax straw to horses and cattle re-
sate nort satisfactory results from its use.
Frequently some flax sepd is left in the
smen straw, which increases its value. There
seems no foundation for the statement
that the fibre of flax straw forms balls that the fibre of flax straw forms balls
of indigestible matter in the stomachs of arm animals. It is, no doubt, digested
ar same as other fibrous matter-the lint of cotton, for example. Some flax
straw may aliays be fed, and during
times of scarcity will prove a boon to
the stockman who overomes his prejuanimals. The chaff of flax is not mentioned specifically, but we would
expect it to prove equal to timothy hay.
Possibly some Possibly some of our readers
of their experience with it.
2. It would seem best to feed the chaff 2. It would seem best to feed the chaff
mixed with silame, or roots.
3. For the milch cows, try silage 30 3. For the mich cows, ury shage
of 40 pounds, roots 20 pounds (or more.
if anailain)e. hay 10 pounds, oat straw
ad libitum, bran 6 pounds, crushed oots ad libitum, bran 6 pounds, crushed oa
$\mathbf{3}$ pounds. If the hav is chiefly clove
the proportion of bran may be reduc
$\qquad$
$\qquad$


## THINK it over

## AND you will

 FIND$$
\begin{aligned}
& \text { by reasoning with us we are correct in } \\
& \text { stating that it it too often the case, you }
\end{aligned}
$$ stating that it is too often the case, you

ust skip over an advertisement, barely read it, and that's the end of it. Did it ever occur to you, readers, that this is
expensive talking? So if it were only expensive talking? So if it were only
one-sided we had better not talk at all. If we expect returns we must tell the rruth: We want to talk about some-
thing every week which pertains to hing every week which pertains to
your interest as well as ours, and shall end in our mutual benefit. We are importers of the Celebrated Elastlc
Draft Springs, of which millions are in Draft Springs, of which millions are in
use in Europe. They actually prevent sore shoulders, stop many breaks, make your harness last very much longer,
and save your poor horse wonderfully See page your poor horse wonderfully. headed "Farmers," and watch this advt. next issue. In wishing our friends and readers a very
prosperous 1909, we assure you that prosperous 1909, we assure you that
your horses will certainly have a Happy New Year if you permit them the use of our Springs. Don't tell your neighor
TME TRANSATLANTIC IMPORT \& MFG. 163 Queen's st. North, Berllu, Ont.

Write for circular and information.

BE SURE TO GO TO
OTTAWA
Jan. 19, 20, 21, 22
TO PROFIT BY THE EASTERN ONTARIO
Live Stock and Poultry Show
\$7,500 IN PRIZES.
For Details Address
D. T. Elderkin, Secretary

21 SPARKS ST..

The Maid (after being kissed)-Yo
ought to be arrested for that!
The Man (dramatically--What's th
charge against the prisoner?
The Maid (nively)-Violating the un
necessary noise ordinance.

QUESTIONS AND ANSWERS Miscellaneous.

## SALE OF PIGS.

B sold three pigs to $F$ and delivered them 4th of December, and they were to
The were killed and third was killed The wecember. Filled, F
now says one pig had kidney trouble or now says one pig had kidnecy trouble, or
gall stone, and wants B to may . $\$ 10.50$. gall stone, and wants B to pay $\$ 10.50$
Can $F$ compel B to pay this amount? Ans.-Unless the pigs were sold subject
to a warranty covering the allleged trou-
ble, $F$ cannot legally compel B to refund ble, F cannot legally compel B to refund
any part of the purchase price, or pay ny damages.

## A THRESHING BILL.

A hired a man who owed a storelketper should B, the hired man, agreed that A of his wages, but before that $\$ 20$ out was earned $B$ died. A did threshing for
the storekeeper's brother, who paid to the storekeeper the $\$ 20$ instead of pay-
ing A for the threshing done, the bill ing A for the threshing done, the bill
for which was $\$ 19.50$. B had earned but $\$ 18$ as wages, and $A$ had paid that amount to $B^{\prime}$ ss widow. What action
should A take to obtain. payment for the thould A take to obtain payment for the
threshing ? SUBSCRIBER. hreshing
Ontario.
Ans.-His regular course would be to make a demand upon the storekeeper's brother for payment and then sue him in
the Division Court in the event of such he Division Court in the event
demand not being complied with.
SUGGESTED ASSIGNMENT.

1. Supposing A owes a certain number
people, and in particular a balance解 so a judgment, and a chattel mortgage
$\$ 70$. The goods would amount to bout 8400 , if sold. Who would be enitled to the first claim? A would like very man to have as near his share as
possible. 2. How is it as regards implements
hat are not all paid for? Would the vendors have to take their share or not?
2. Will it clear a debtor if he makes 3. Will it clear a debtor ir he make
an assignment to his creditors or not?
Ontario. Ans. -1 . The tax collector would have
o be satisfied first, then landlord, chatmortgage, employees (if any. to a imited extent). execution creditors, (as a
heir costs), and then general crodis 2. They could only take a dividend out the estate along, with a the general reditors, unless they had preserved their
iens ns against creditors in the regular way-in which case they could come in ahead of even the chattel inortgage.
a. Not unless there is sufficient in the
3. state assigned to satisfy all creditors
nd the oxpenses of the winding up.
$\qquad$
dit him with the amount of the divi-
mpecunious nobleman smiled.
not particular about the
"quall.

## PUT ON IN 1885 Perfect Protection in 1909

Metal Shingles may be＂guaranteed＂to last for 25 years－and not last five
When a house has been making Metal Goods only few years，of what good is their＂guarantee＂ that their shingles will＂last a life－time．
They don＇t know themselves how long their shingles will wear because they have not had time shingles will wear because the


## ＂EASTLAKE＂ <br> METALLIC SHINGLES

MADE II CANADA FOR 24 YEARS
Don＇t forget that－Mede in Conada for 24 Years In use，right in your own province，for 24 years proof，rain－and－snow－proof，wear－and－rust－proof by 24 years＇resistance against storms and climate．
The guarantee that goes with＂Eastlake＂Shingle is backed by 24 years＇test．You don＇t take risks， you know．
There＇s the＂Eastlake＂Cleat－the improvement that makes the＂Eastlake＂Shingles perfect．An entirely original idea，patented，and found only in ＂Eastiake＂Shingles．Let us tell you all about it Write for catalogue．
The Metallic Roofing Co．，Limited TORONTO

Manufacturers
WINIIPEG
Agents wantod in some districts．Write for particulars naming this paper． 54

Please Mention this Paper．


There are reasons for the conspicuous suc cess of＂Frost＂Agents．The reputation of
their goods gives them an influence no other Fence Agents have．They have the most omplet one：Woven Wire Fence，Field Built order they cannot fill．They can supply every possible fence requirement． They are able to sell fencing of the amous＂Frost＂quality at a rate that makes the price for inferior goods appear

Sale dates clanted an．13th．－At Union Stock－yards，West Toronto，Wm．Laking ：imported Sh stallions and mares in foal．
Jan．14th．－C．D．Wagar．Enterprise， Jan．14th．－C．D．Wagar，Enterpri
Ont．；Shorthorns． Jan．19th－At Markda Sproule；Shorthorns． Feb．3rd．－At West Toronto，W．G．Pet tit \＆Sons，Freeman，and
Salem，Ont．；Shorthorns．
Feb．4th．－At West Toronto，W．C．Ed wards \＆Co．，Rockland，Ont．；the Millers，Arthur Johs．
Davidson ：Shorthorns．

Mr．John Racey，Lennoxville，Que． whose advertisement runs in this paper，
writes：Amongst the Shorthornis we are writes ：Amongst the Shorthorns we are
offering is a particularly nice young bull offering is a particularly nice young bull
about eleven months old，by Nonpareil Victor 2nd $=84534=$ ．He is a dark red in color，has good style and form，and
from his breeding should do good wher－ ever he goes．We also have a fine lot ever he goes．We also
of heifer calves by Golden Crescent and other bulls．Those requiring something in this line will，we expect，find what will suit both with regard to price and
quality．We aim at producing an ani－ mal that combines both nilking and good feeding qualities．

Kyle Bros．，Ayr，Ont．，write ：－＂We
have recently made the have recently made the following sales
of Shorthorns trom our herd：To Alex． Hall，Ayr，the red fourteen－month－old bull，Rosebud Chancellor，a grandly－bred Kinellar Rosebud，sired by Bapton Chan－
cellor；Messrs．McFarlane $A$ Ford，Dut－ cellor；Messrs．McFarlane \＆Ford，Dut－
ton，secured Roan Gloster to head their herd．This is a very promising calf of
the famous Duchess of Gloster family． the famous Duchess of Gloster family．
and being got by the great breeding bull． and being got by the great breeding bull，
Bapton Chancellor（imp．），we would ex－ pect him to go on and develop into something good．Mr．F．Scott，Paris， got the Golden Drop calf，Golden Chan－
cellor，a March calf that won 6th at Toronto in a strong class of juniors． He has done fine since the show，and will develop into a bull with plenty of size young bulls for sale，including our two imported bulls，which will be home the first week of January．These are a pair of good bulls，with first－class breeding，
and anyone in need of such should see them before they buy．We also have Broadhooks Chancellor，winner of first at Toronto，in a class of twenty－six seni
calves，and a lot more good ones．＂

In market parlance，carriage horses， sometimes spoken of as＂heavy harness
horses，＂are full－made，round－bodied and horses，＂are full－made，round－bodied and
smoothy－turned，with an unusual amount of quality，and must possess to a marked degree，high action，with a fair amount of speed．They should have a long，well－ arched neck，small，neat head，a short， well－muscled back，long，level croup，and
well－developed thighs and quarters．The class is composed of coach，cob，park
and cab horses．They range in height from 14.1 to 16.1 hands，and weigh from more lithe in build and angular in form than those of the carriage class．They
are sometimes spoken of as drivers or are sometimes spoken of as drivers or
＂light harness horses，＂and are usually drivent to light－weight vehicles．Consider－ able speed is desired of some of the in－
dividuals of this class，which is composed dividuals of this class，which is composed
of runabout and roadsters．They range weight from 900 to 1,150 pounds．－Horse World．
the Cargill shorthorns． A private catalogue of the noted Short，
horn herd of H．Cargill \＆Son，Cargill Ont．，recently issued，shows the herd over 135 head strong，considerably over one－
half being imported，and all of high－class Scotch families，sought for the world over at the present time on account of their merit as producers of natural flesh，early maturity，strong constitution，and the
most successful show cattle of the breed to be found to－day，as shown by show－ yard records．At the head of the herd
as stock sires are the Dathie－bred bulls， 13lood Royal（imp．），by Pride of Avon；
Proud Hero（imp．）．by Pride of Hall， Proud Hero（imp．）．by Pride of Hall．
and Red Star，by Vanguard．The pedi－
krees in this catalogue are tabulated on grees in this catalogue are tabulated on
the most approved plan，and parties de－
$\qquad$

## Ontario Horse Breeders exhibition

Union Stock Yards, West Toronto JANUARY 13, 14, 15, 1909

Over $\$ \mathbf{3 , 0 0 0}$ in Prizes. Entries Close January 2nd.
All horses exhibited will be stabled in the Exhibition Buildings. For prize lists, entry forms and all information, address

| WM. SMITH, | A. P. WESTERVELT, Secretary, |
| :---: | :---: |
| President. |  |
| Parliament Buildings, |  |
| TORONTO, ONT. |  |




AFeeling of Security
 GILSON ENGINE "Goes Like Sixty."

overning and sparking. Positively suaranteed. bigsest value, free trial. All sizts.
sk lor catalogue. GILSON MFG. CO., 450 YORK ST., GUELPH, CAN.


Imported Clydesdales
 WM. COLQUHOUN, MITCHELL, ONT


$\uparrow$NEW IMPORTATION OF CLYDESDALES.
 bred right
royally. T. D. ELLIOTT, Bolton, Ontario, P. O. and Station

| belle's bronze turkeys. Siluated between the towns of Barrie | best lot of turkeys, of all ages, for sale, that he has ever had, and he has been |
| :---: | :---: |
|  |  |
| sion of the 6. T. R., is the village of tpoultry column. |  |
|  |  |
| er place is the home of the best flock |  |
| America. owned by w. J. Bell. Th |  |
|  |  |
|  |  |
| prize male (six in number) at ene recent"inter Fair, Guelph, and had some of |  |
| The third-prize winners as well, gives a\|recty fair idea of the high quality of |  |
|  |  |
| (is birds. Notwithstanding the showing $\begin{aligned} & \text { How. G. W. Ross. ex-premier of Ontario } \\ & \text { Hellege }\end{aligned}$ |  |
|  |  |
| the past year at the Dominion Exhibi- |  |
| $\cdots$...'. Chaw Neepawa; Winnipeg Poultry |  |
|  |  |
|  |  |
| $\cdots$ ark, and leading Indiana shows. In- Dre Mctaygarts vegetabe remedies for the |  |
|  |  |
|  |  |

QUESTIONS AND ANSWERS Veterinary.
CALF WITH COUGH. Year:ing calt has had a hacking cough
ior some time. It eats all right and appears perfectly healthy, except for th
cough. W. J. H. Ans,-The cough indicates pulmonary
tuberculosis, for which nothing can be done. The only which nothing can method of diag nosis is the tuberculin test, applied by
veterinarian. If the calf reacts to th test, do with it as your veterinarian
directs. If it does not react, do not b

> FISTULA OF TEAT Cow had teat cut in .to the duct by
barbed wire. It has all healed excep
a small opening through which mil barbed wire. It has all healed excep
a small
escapening through which mill
March. She will be due to calve in March.
Ans.-Leave hier alone until s. A. A. M.
dry. Then cast her, or seches Way, and scarify her, or secure in some
all around until it is of the opening
ith carbo. Then stitct

## Miscellaneous

## GERANIUM - LEAF FUNGUS.

 What is the matter with enclosed gera from some disease. plant is almost dea Ans.-These geranium leaves resemblesomewhat the leaves of one of the species somewhat the leaves of one of the species
of native geranium which have been at-
tacked by native geranium whan and an a plasmopara-a fungus closely
talked by
allied to the one that causes potat blight and the $\left.\begin{array}{c}\text { one that causes potat } \\ \text { If there were supericia }\end{array}\right]$ hyphw, which would have verified the MATERIALS FOR FOUNDATION How much cement, gravel and smal stone will it take to build a foundation
under a driving shed ? The wall will be
-
$\qquad$
$\qquad$

D. McEACHRAN

Ormsby Grange, Ormstown, P. Q. CLYDESDALES STALLIONS RECENTLY IMPORTBD.


 CORRESPONDENCE IINVITED.



3
VERY CHOICE YOUNG imported
Clydestale Stalllons
Wm. Meharey, Russell, Ont SALE OF IMPPRTED SHIRE HORSES. Two stailions, 4 mares in foal, will be offered for bal
by public auction io
ronto Esx

Dr. Bell's Vetermary mealienl Wonder

STAMMERERS

 the arnotr instirute
RHEUMATISM.
 BLAIRS GOUT\& \& HEUMIMTIC PILLS

##  <br> I have just landed my choicest i mportation of Premium and Prize Clydesdale stallions in years' experience. <br> O. Sorby, Guelph, Ontario



THE UNION STOCK-YARDS Horse Exchange west toronto, canad
Auction sales of Horses, Carriages and harness
Monday and Wednesday
Private sales every day
Private sales every day. Horse Exchange. It will in-
Ceroe and see this new Hersite
terest you. Also the quarter-mile track for showing and $\underset{\text { HRRBERT SMITHH, Manager. }}{\text { (Late Grand's Repository.) }}$

Clydesdale Stallions and Mares! A fresh lot has just arrived, including many prizewinners. Some
extra big ones. Prices right. Inspection invited. DALGETY BROS., LONDON, ONTARIO. Stables Fraser House." Address correspondence to Dalgety Bros.,


IMPORTED CLYDESDALES, SHORTHORNS AND SHROPSHIRES



1IMPORTED CLYDESDALES


## IMPORTED CLYDESDALES

datan

1


Clydesdales and Hackneys whaty int in



Oak Park Stock Farm Co., Ltd., have at preem tor atatatheics



aIMPORTED SHIRES A. hit simany yive stallions and fillies from their noted Shire stud, high h-class representatives of the breed.
Correspondence solicited.
Address : DR. C. K. GEARY, St. Thomas, Ont.


have you secured one of "the farmer's advocate" premisms

HORSE OWNERSY USE
 $\mathrm{R}^{\text {adiol treatment }}$





 rotassium three times daily. If this rects
doses.
developing action, etc.

1. What is the best way to shoe to
develop action?
Would you sho the the same in winter as in sumper?
2. Mare has capped hock.
 Ans.-1. Shoo with faut shoes of con-
siderable weight. without calkins. Tho
shoos should weigh from one the two
pounds, gecording to the weight with



 Thos. Reld. 9 Santiticn Aforl




Mr. A. I. HICKMAN Court Lodge, Egerton, Kent, Eng


For Sale! Percheron and Fremch Drart
 from G. T. R. depot

Shires, Shorthorns and Lincolns
 John Gardhouse \& Sons. Highfleld, ont.

## A \$5,000 DAN PATCH STALLION FREE.

## WONDERFUL WORLD FAMOUS MILES BY DAN.

 1 mile in1
2 milles in in
3 milos in
18 $\qquad$
 Mune ivereme
 Dan drew 180,000 people at Two exhibitions and over ONE MILL ON
PROPLE have attended his marvellous and thrilling speed exhibitions. The DAN HAS BROKEN WORLD RECORDS 14 TIMES
 ACCIDENT ONLY PREVENTED 1:54 ON OCT 11,1908 On Oct. 11, 1908, at Lexington, Ky., Dan Patch paced the greatest mile of his life and Only an Accident Prevented his having a record of $1: 54$. He paced the first quarter in 29 seconds-the second quarter in $27 / 2$ seconds, beng a $1: 50 \mathrm{clip}$-was at the half in $561 / 2$ seconds, a 1.53 ctip-the third quarter in 29 seconds aid was at the thre quarters in $1: 25 / 1 / 2$ and was finishing strong
at the seven-eighths pole when the pacemaker broke a blood vessel in his nosat and slackened up at once which crowded Dan in toward the fence and shed the mile in $1: 56 \frac{1}{4}$, which the Horse Papers and all Horsemen admit was the Fastest and Greatest Performance in the life of the World Famous Harmess Horse king. This accident is an 1909.
 over Six Years Dan Patch 1:55, has paced more Extremely Fast Miles than ived. Dan's oplendid plysical condition after six years of continuous miles ander two minutes is the wonder of the entire horse world. This preparation gives Dan purter blood, more strength, belter appetite and digestion, more
nerve force and speed. We Originated "International Stock Food," over wenty years ago and have constantly used it for our own Horses, and other stock. If it gives such results for Dan Patch $1: 55$, it will give paying results for Cash Guk., "International Stock Food Fapm" of 700 acres, 10 miles from Minneapolis. On the farm we have over 200 head of Stallions, Brood Mares, Colts, Trotters and Pacers. Our leading Stallions are Dan Patch 1:55, Directum 2:05 1 , Arion 2:073/ and Roy Wilkes $2.06 \frac{y}{2}$. We will be pleased to have you vis
our stables at any time and see the actual, every day results of using "Interour stables at any tume ar horses of all ages and conditions. We hereby agree to pay you $\$ 5$, ooo Cash if it is not given to our Stallions, Brood Mares, Colts
and speed liorses every day. "Interuational Stock Food" has stood the great and speed horses every day. "International Stock Food" has stod the great
est of over twenty years constant use by over Two Million Farmers and Stock Owners. Its sale has reached around the world until the stock owners of Canada, Japan, China, Australia, South Africa, etc., join with the stock owners
of European Countries and The United States in pronouncing "International of European Countries and The United States in pronouncing diternational
Stock Food" he Greatest Blood Purifying Tonic and aid to digestion that
 Mark," [No. $5^{2791}$,] for Highest Quality, combined wuth remarkable cheapness to use. It Purifies The Blood, STrengthens The System and Greatly
Aids Digestion and Assimilation so that each animal obtains More Nutrition Aids Digestion and Assimilation so that each animal obtains More Nutriton
from all grain eaten. We guarantee it equally as good for all kinds of stock and perfectly harmless even if taken into the human system. One tablespoonful mixed with the regular grain feed will Save You at least THREE QUARTS
OF O.ITS for each horse Every Day and the same proportion in feeding all OF U.ITS fur each horse Every Day and the same proportion in feeding all
other kinds oi stock. We are simply asking you to use "International stock Fuod" on our positive guarantee that it will save you money, over its cost, and keep your stock healthy and vigorous. "International Stock Food" has been the Standard of The World for Over Twenty Years as a purety vegetabie,
cheap, medicinal tonic to use in small amounts mixed with the regular grainfeed.











THIS \$5000. DAN PATCH STALLION FREE Mr. Savage has mailed na a large photograph of "Forest Patch" the young Don
Patich Stallion he will give away in his novel counting contest. We can assure sou thai Phis sman Pngraving is an exact reproduction of this fine, young. remistered stallion the




Cold-Sores
Are your hands chapped, cracked, or sore? Have you "sold cracks"
which open and bleed when the skin is which open and bleed when the skin is
drawn light? Have you a cold sore. drawn light? Have you a cold sore, rrost bite, chilblains, or a "raw"
place, which at times makes it agony for you to go about your housenold ior you to go about your housenold
duties? If so, Zam-Buk will give you
relief, and will heal the frost-damaged |skin. Anoint the sore plazes at nignt. sink into the wounds, end the smarting, and will heal quickly.
Read this Lady's Experience.
Mrs. Yellen, of Porland, says:of the great benefit I have derived from cracked that it wands were so sore and near water. When I did so they would smart and burn as if I had scalded them.
I seemed quite unable t.) get relief froun I seemed quite unable t. get relief from
anything
put on them until 1
tried Zam-Buk and it succeeded when all else
had failed. It closed the big crackhad failed. It cosed the big crack . . and in a very short time hiealed byy healer and should be in every ho



## 2ambin


 8 COOTE BLOCK, LONDON, CANADA.
 Mr. Rhodes went around his farm befor
breakfast, land Mr. Kipling was good an hreakfast, and Mr. Kipling was good and
hungry befrre he returned. When Mr.
Rhodes came tack he laden with placards inscribed in hubs Starving, 1 ' door he, read: 'For the human race breakfast It has sustained invigorates the
body. housands; it wody. It has sustain you. See that you get it. Why die when a little breakfast prolongs
In the breakfast room was found reading his paper, but the ex pression of innocence on his face was
rather overdone.

## Black

 Remarkable for Watch richness and pleasing flavor. The big black plag chewing tobacco.
$\qquad$
$\qquad$
"Maybe I can solve it."
"Thin troy. Which yets out of date the
uickest, a battleship "or a woman's hat?"

## SHORTHORNS BY AUCTION



Tuesday,
Jan. 19, 1909. sharp.

Dr. T. S. Sproule, M.P., Markdale, Ont. FORTY-FIVE (45) HEAD of Scotch and Scotch-topped Shorthorns by auction, without reverve. Among
which are 7 bulls, pure Scotch and Scotch-toped, from 10 months to 2 years
隹 of age. High-class herd headers among them. The females are Floras, Margarets, Lady Janes and others, tracing to Beauty, imp.,
making an offering of high-class quality, breeding and character.

TERMS: 9 Months on approved joint notes; 5\% off for cash. Catalogues. Capt. T. E. Robson. Auctioneer.

Angus Cattle for Sale - A few choice
Prices right. Three miles and yest of Ering sualis. C. P. R.. 16 miles northe-eas of Guelph.
J. W BURT, Coningsby P. O... Ont

Angus WalTER HALL,


Poultry Tonic increases egg production. CURES DISEASE
Ibs., 25 c . By Ma
 Louse Killer kills lice on poultry and

THE HACKNEY STOCK TONIC COMPANY, TORONTO, ONTARIO
Glen Gow Shorthorns Pleasant Valley Herd


$$
\begin{aligned}
& \begin{array}{l}
\text { GBO. AMOS \& SON, Moffat Station and P.O } \\
\text { Moffat is II miles east of Guelph on C. P. R. }
\end{array}
\end{aligned}
$$

Imported Scotch Shorthorn Bulls 10

 FRED. BARNETT, MANAGER.
J. F. MITCHELL, BURLINGTON, ONT.

## Scotch Shorthorns



Shorthorns and Berkshires
 S.J.Pearson,Son \&. Co.,Meadowvale,Ont.

| Brampton, G.T. R. |
| :---: |
| Stoneleigh E., and |
| E. EFFF $\&$ SONS, breceders | Stock Farm $\begin{gathered}\text { of Shorthorns. Liecesters and } \\ \text { Berkshires. }\end{gathered}$ for sale. Bond Head vious ages and obtock otes

stations, G. T. R.

## m <br> SPRING VALLEY SHORTHORNS. <br>  <br> KYLE BROS., AYR, ONT., P. O. and STATION.

SUBSCRIBE FOR "THE FARMER'S ADVOCATE AND HOME MAGAZINE.


YOUR DANGER BEGINS WHEN YOUR BACK ACHES.

It In the First and the Sure Stign of Kidney Disease
Doan's Kidney Pills
ocro tho aching back bry ouring the aching nefs achinin $\begin{aligned} & \text { and not not the boack }\end{aligned}$
They ace direotly of the kidnopy and
 the wholo syitem.
Nrito: Fraik Foos, Woodider, N.R.


 Doaris Fidnop Pilla aro 5 oentat por boad
 nog Pill Co., loronto, ont
LAKEVIEW HOLSTEINS Hen

 W. D. BRECKON. MEr., Bronte, ont.

## IMPERIAL HOLSTEINS

㫦


 bracting and breding and quality. Paris, G. T. R.; Ayr, C. P. R Ridgedale Farm Holsteins -rof sall salivos


HOLSTEINS FOR SALE.
 DON Nun fon ABort. Worrctavie: ont
 and


 after a long look.
-'Home'?
Why "Because ther
replied meekly.


GOSSIP
At an auction sale last month, Geo. A Heyl, Washington, M., is reported
have realized an average of $\$ 179.33$ for 53 Shetland ponies. The highest price was $\$ 450$. Si.
to $\$ 350$ each.

If you hire a horse at a livery stable If you hire a horse at a livery stable
you ought to treat him as if he were
your own. if you drive out 10 miles your ough. not to attend to your own
wants until you see him properly cared
wate wants until you see him properly cared
for. If an honest man you will remem-
ber that you are under a twofold obligation to that animal-an obligation to
its owner and an obligation to the mal. You are the debtor of both, and
though you pay the price of the horse no money can release you from the duty and moral claim involved in the bargain
between yourself and the owner. neglect the poor speechless beast that cannot appeal to the commiseration of a
passer-by is simply unpardonable man who is guilty of such neglect is man who is guilty of such neglect
worse than a man.-Our Dumb Animals
r. D. ELLiott's new importation

Mr. T. D. Elliott, of Bolton, Ont., ar-
rived home a short time ago with his
new importation of 14 Clydesdale stal
lions, 2 Clydesdale fillies and one Thor
oughbred stallion, selected in Scotland
with
oughored stamion, selected
with due rectard to their superior excel
lence and right
lence and right royal breeding. The
first feature of the lot that particulaty
first feature of the lot that particulario
forces itself on the mind of the visito
is the great size of every one of them.
There is scarcely one of the lot that will
not make a ton and over horse. Couple
with this is the exceptionally grand with this is the exceptionally grand qual-
ity of their underpinning, their clean flal bone, their well-sprung ankles, their big,
well-tapered feet, and the beautiful silky hair of their legs. Visitors and intend-
ing purchasers will find this as choice ing purchasers will find this as choice a
lot of Clydesdales as was ever seen together in Canada, and a lot that when
properly conditioned will carry off a properly conditioned will carry oll a
good share of leading honors in any com-
pany. Several of them are first-prize pany. Several of them are frst-prize
winners in Scotland, and represent the
get of such sires as the Cawdor Cup get of such sires as the Cawdor Cup
winner. Hiawathas the champion, Baron's
Pride; the Royal and Highland winner Pride: the Royal and Highland winner,
Silver Cup; the Highland and A. S. winner, Baron's Best; the noted show horse
and winner. Gartly Squire, bright prize horse. Ascot; etc.; and havng for dams such noted mares as the
1,000.gs. Queen of the Roses; the noted prize mare, Romolo, and got by such
sires as Hiawatha; Prince Gallant; the $\mathbf{£ 3 , 0 0 0}$ unbeaten Prince of Albion; Mac
gregor; Royal Favorite: Darnley's Her gregor, In the matter of age there are one
etc.
9 years old, one 4 years old, four 4 years of age, seven 2 years of age, an
one 1 year old. The fillies are both one 1 year old. The fillies are both
years of age, one of then got by Baro
Hood, the other by Gartley Brand. arst named is a right good quality filly
that will yet make her mark in tho ring: the yet make her mark in the sho
 three-year-old, Sir Daniel (13578), by
Hiawatha; dam by Prince of Albion: Hiawatha; dam by Prince of Ablon; g.-d.
by Macgregor. This coit as a yearling
won first at Bishopton and Paisley, and fourth at Glasgow; as a two-year-old ho
was first at Kilmarnock; and this yeaas first at Kilmarnock; and this ye
had the Tiree $£ 50$ premium. He is
tight royal
$\qquad$
$\qquad$
$\qquad$

Mapte Line Holsteins and 0xfords
 libs at three years old ARso a few chooce Oxfort
Down ewese W. A. BRYNT. CairnSorm. Ont
Middesex Co.


The Maples Helstein Her RECORD OF MERRT CO WT,
Hieaded by Lord Waye Mecthilde Calamity also
in the Record of Merin. Nothing for sale but choice
 HOLSTEINS Cuw wap amp
 prizes at Galt and Hespel
sins, Hespeler. Ont.
 than we do next spring.
Why no write to
ARIRGHT E \& F. MALLORY, FRANKFORD, ONTARIO.
 sired by Sara Hengerveld Korndyke,
and a number of thers bred th this bull
BROWN BROS., LYN, ONTARIO.

## OIL CAKE

J. \& J. Llvingston Brand

The finest feed known for stock. Once a user, either fine or coarse ground. Write

DOMINION LINSEED OIL CO., LIMITED BADEN, ONTARIO. 31 Mill St., MONTREAL, Qur


Centre and Hillview Holsteins Riverside Holstells


For sale: Seven young bulls from two to nine
monts. oddo out of Reoond of Merit cows, sired by
Si Pieder
 days, and 87.6 lbs. milk in 1 day.
J. W. Richardson, Caledonia, Ont
 Only Bull Calves For Sale holsteins and AyRShires, GEO. RICE, ANNANDALE STOCK FARM, TILLSONBURG, ONTARIO.
Mapte GIen For sile: Two bull calves born RUSINESS HOISTEINS


Stoneycroft Ayrshires Choice young bulls and heifers of the very best breed Large Improved Yerkshire Pies
and dans, now ready to ship.
Stoneycroft Stock Farm, Ste. Anne de Bellevue, Que.
HOW GLEN AYRSHIRES! AYRSHIRES $\begin{aligned} & \text { Bull and heiter calves trom pro } \\ & \text { ducing dams. Right good once }\end{aligned}$


Burnside's Champion Ayrshires , mamemime

R. R. NESS, Howick, Que.
 Ayrshires from a Prizewinning Herd-
calves for saie trave some nice bull and heifer

Prizewinning Ayrshires $5 \begin{gathered}\text { High-class Bulls, from } 6 \text { tio } 24 \text { months } \\ \text { of } \\ \text { ofe , } 100 \\ \text { months to } \\ \text { cows and }\end{gathered}$ of ages 10 Cows and Heifer
months to 5 years of age.
brod from the depect-milking strain
A. Kennedy \& Son, Vernon, Ontario
Hill siew Steck Farm. Winchester station, C. P. R

JANUARY 7, 1909
 Dr. Heese poultry Pana-ces is a garanteed egg producer. It is a tonic-not a ration. It contains eleinents which aid digestion, make good blood, and free the system of poisonous dead matter. It is "The Dr. Hese Idee" that pooltry can be kept healith, active and prolino, even under the unnatural condition


INSTANT LOUSE KILER KILLS LHE
SKUNK

Write for
HIGH PRITCES
Heran $\underset{84}{\text { E. Front st., E., }}$ T. $\underset{\text { TORONTO, ONT. }}{\text { COM }}$ OXFORD DOWN SHIEEP We have 50 yearling ewes, all bred to our im
ported ram, champion at Toronto Exhibition, 1008
 henry arkell \& son, arkell ontario Atell C.PR. For sale at very moderate prices.
They were sired by
And champon ram. Ane or frintcrass type and quat
Write for circular and prices.
$\qquad$
anOxford Down Sheep, shorthorn cat-

HAMPSHIRE DOWN SHFEP! Yearling rams and yearling ewes, All bred
from inp.sine and dams.
price reasonable. L. E. MORRAN. MILLIKEN, ONTARIO. IMPORTED HORNFD DORSFTS I have for sale a few of both sexees, the got
of last year's champion all round the circuit, Imp. Romulus
of Dorsets. JAS. ROBERTSON $\delta$. SONS. MIIton P.O. and POPLAR LODGE SOUTHDOWNS AND BERKshires. -At right prices. 2 aged. 3 shearling rams,
2 ram lambs. Flock headers.
Berkshires all ages,
 When Writing, Mention This Paper.
'THE FARMER'S ADVOCATE


ale Berleshires SUNNYMOUNT BERKSMIRES


 C.P.R. \&. G.I MGLEOD, Duroc-Jersey Swine and Leicester shecp.

YORKSHIRES
MONK
are the easily-fod. quick-matu
Ail ages for s.
lit
FERGUS, ONTARIO




Jorkshires are noted for superior excellence. Both sexes and all ages for
. Featherstone \& Son, Streetsville, Ont.





din. Mem bat $A$
$\qquad$
 CURED $\begin{gathered}\text { Mr, Wm. Stinson, } \\ \text { toronto } \\ \text { Tontaris: }\end{gathered}$
 monialsin one year. Sole proprietors:
Trench's Remedles, LImited, Dubllu. What a peculiar chauffeur you have."


GOSSIP.
r. h. hassard's NEW importatio Mr. T. H. Hassard, late of Millbroc
now of Markham, Ont,, has lately turned from Scotland with an import
tion of 25 head of Clydesdat tion of 25 head of Clydesdale stallion
and one Hackney stallion. Before leat and one Hackney s
ing for Scotland, was going to bring over the best lot he
was
ever imported-and he has kept his word.
Wo wory ever imported-and he has kept his word.
Wo very much doubt if ever before was There a lot of Clydesdalese imported "
Canadan by any man or lirm the equal this lot. True, they are not all world
beaters, but certainly there are a num-
ber oi exceedingly high-class husse ber of exceedingly high-class horses,
horses that when made up will weigh up
to 21,000 ths., of superb mould and on faultess bottooms. We must say tha
parties visiting Hassard's barns at Nark ham will see as perfect specimens of
Clydestale ideality as the breed produces. And on breeding lines, while they are
bred in the purple, particular attention
was paid to keep as far as possible from was paid to keep as far as possible from
injudicious innreeding. A synopsis of
the breeding of a few of them we give the breeding of a few of them we give
below. Deserving of first mention is
the brown eight-year-old, ©lolden Gileam the brown eight-year-old, diolden Gleam
$(11730)$, by the great sire (old Mine;
daum by Royal Alexander. Few horses of the calibre of this one has ever been
imported. In condition he will easily
weigh a ton. with supert quality and weigh a ton, with superb quality and
character throughout. The district that gets his service will be fortunate. He
is a high-class sire and very sure. Brave is a high-class sire and very sure. Brave
Nelson (12872) is a black five-year-old,
by Prince Tom; dam by Raiburn. He is a massive, big, thick horse, on the best
kind of underpinning, a duplicate of the double champion, Right Forward. Prince
Togo (13146), a brown seven-year-old, by Prince Robert; dam by william the Con-
queror, is a horse which, when in con-
dition, will weire 2150 , 1 s. dition, will weigh $2,150 \mathrm{lbs}$ Combined
with that is smoothness and quality,
topped of with style and character. He is a proven sire of sterling worth. Car
cellus (14548) is a brown five year-old
by Marcellus; dam by prince of Car by Marcelus, Here is a great show horse; a
ruchan.
cracker from top to bottom; a horse that will bear the closest inspection. Admira-
tion (12797), a brown five-year-old, is a
full tion (12797), a brown five-vear-old, is a
full brother to the chanmpion, LLabori, got
by Hiawatha; dam by Craichmore Darn-
In ley. He is up to an ton in weight
lemooth to a turn, and full of quality;
sum Sluooth to a turn, and full of qualityr, a
show horse all over. Dunure Nikko
$(14102)$ is a brown two-year-old, that in Scotland this year, at the Highland, beat the Toronto champion, Landsdowne,
sired by Hiawatha; dam by Prince of
Albion: g.d. by Top Gallant; breeding
 Midscat Prince. Here is something very
choice, smooth, even and stylish, on
perfect bottom; a show colt of a hig perfect bottom; a show colt of a high
order. These mentioned are only repre-
sentative of the lot. In age there are
one 8 yenrs old, one 7 years wid one 8 years old, one 7 years old. one 6
years yold, three 5 years old, three 4
years old, seven 3 years old, nine 2
$\qquad$ more of them will be on exhibition at
the HIorse Show at the West Toronto
Stock-yards on January 13th, 14th and 15th. Inspection is invited, as and
Hassard is not afraid of comparison
When condition is taken into account That. tre for sale at ruasonable procices. and on
terms to suit. The Hackney stallion
 his horse was at the head of the great
Morton Stud, which speaks for him a all-around action. and style galore.
ather Hackney stallions on hand are the

 Hew (10033) and Fastroodions Ronyal Reanso the Hackney pony filly, Little Clip
(148,34). 111 these are for sale at easy or Hackneys. Hassard intends going ow Paul, at the ape of four. was asked one Morning hy his papa. "What is the name
of the first meal of the day?", "Oatmeal." reepronded little polll.
promptly.

WHAT WE WANT $=\mathbf{w n}$
 WE WANT to pay you WELL for doing it. WE WANT to pay you WELL for doing it. first-class value. We offer nothing else. If any one of our subscribers, WE WANT you to know that every premium we offer is NOTE THE FOLLOWING LIST OF PREIUIUIVS.
The number of new subscribers required to entitie you to each premium is marked opposite each. Send for agent's outfit, and begin work to-day.

## RAZOR.

The Grifin Corbo Megnetic Razor, direct from the manufacturers in Germany. The manufacturers will not allow this grade of razor to be sold for less than \$2.00. We offer for twe new subserlbers.

## KNIFE.

The Famous "Farmer's Advocate" Knife. Genuine Joseph Rodgers. (Made in Sheffield, England.) For one new subseriber.

5

## "CARMICHAEL":

Camallan Farm stery.
Bound in cloth, illustrated. Just the thing for Christmas or Birthday Gift. "Far above the ordinary run of fiction,", says the Buffalo Courier. "Should be in all the homes of the people," Toronto World. For two new suthsoritiors; or eash, \$1.25.

## DICTIONARY.

An indispensable volume in every home. The Chambers' Twentieth Century Dictionary. Cloth bound, contains 1,200 pages, profusely illustrated, printed on superior quality of paper. For two new subscribers.

These premiums are given only to our present subscribers for sending in bona-fide new yearly subscriptions, accompanied by
$\$ 1.50$ each.

## NICREL WATCH:

Good timekeeper. This which has taken well. For three now subserthers

## MOUTHOREANS.

Best German make. Keys, A, $\mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{B}$. Two instruments for one new suluseriber, or choice of one Mouthorgan and one Compass for one new sub. seriber.

## THE MICROSCOPE.

 Tripod Microscope, with stront magnitying lens, usetal tor amining wreed and other socds, in sects and other small objects. Isa means of great entertainment and instruction tin the tomb endi out of doors. Will be found invaluable in carrying on nature study, now becoming a specialty in rural schoots. Tw-atirnotion one new subsertber, or ont Microscope and one Mouthorgan for one new subscriber.BIBLES.
(Bagatir's.) Probably to bee value of all our premiumes. This handsome volume (coavenient size) for only two now sulbseribers.

## BARON'S PRIDE.

Handsome picture of the Cha pion Clydesdale. Size, $17 x 13$ ins, including margin. Suitablo for framing. For one new sub seriber.

We must have honest workers. Changing the name from one member of the household to another, or deception of any kind; will not be allowed. If discovered, the premium will be withheld.

## The William Weld Company, Limited, London, Ontario.

# FIFTY DOLLARS SPENT FOR MY SHINGLES 

## Adds $\$ 500$ to the value of any House or Bar

ANY building good enough to be roofed right is too good by far to be roofed with wooden shingles. No building worth oarrying fire-insurance on deserves any roof less good than "Oshawa" Galvanised Steel Shingles. Simply beoause-
"Oshawa" Shingles, of 28 -gauge semihardened sheet steel, make the only roof that absolutely and actually will be a good roof for a hundred years. If any "Oshawa"shingled roof shows the least sign of leaking in twenty-five years, this company will replace that roof with a new roof, free. That's the kind of a written guarantee you get when you buy "Oshawa" Shingles, - and there's \$250,000 back of the guaranteo.
Thousands of "Oshaws"-shingled roofs oover farm buildings, residenoes, public edifices, churches, all over Canada. They make a roof handsome enough for any building whatover,and it is the most practioal of roofs, for the simple reason that an "Oshawa"-shingled roof oan NOT leak.
It can't leak, because, to start with, it is made of extra-heary, extra-tough steel, special galvanized. The galvanizing makes these gaivanizing makes these
shingles wholly proof against rust, -and rust is the only enemy steel has when it's used for roofing
good roof for a hundred years.



Such a roof is not only rain-proof, snow proof, and fire-proof, but it is wind-proof. It makes any building it covers warmer in winter and cooler in summer-because-
The Pedlar four-way-lock-every shingle locked to adjoining shingles underneath, on all four sides-makes an "Oshawa"-shingled roof practioally one solid sheet of steel, without a crevice or a crack.
> "OSHAWA" galvanized stel SHINGLES

A new roof for nothing if they leak by 1933

That keeps out the slightest suspicion of moisture-it keeps out the winter winds and keeps in the warmth-and in summer it wards off the sun's rays-won't let them get through.
And "Oshawa "-shingled roofs are fire-proof,-as a matter of course. How could you set fire to a roof of solid sheet steel? The fire-insurance people will make lower rates on a building protected by "Oshawa" Galvanizad Steel Shingles That saving alone will pay for the roof within ten years.
Some think a corrugated iron roof is fireproof and about as good as an "Oshawa"shingled roof. That isn't so. We make
$\qquad$ means roofed with "Oshawa" Galvanized Steel Shingles.
Maybe you think the first cost of these shingles is so high as to outweigh all the savings they make and all the merits they have? Would it surprise, you to know that you can "Oshaws"-shingle any roof for $\$ 4.50$ a square? (A "square" means 100 square feet, -an area 10 by 10 feet.)
Just about the price of A1 cedar or cypress shinglesand they'll be rotted to dust before even the first ten years of the Pedlar guarantee have worth of farm property. Not a cent of that loss could have happened if the buildings that were struck had been roofed il
 "Oshawa"-shingled roof will passea. An Ostast ten wood-shingled roofs-and be a better roof every better roof every
minute of the time, in every way a roo ought to be good.
Anybody can
 Anybody c $c$ an
shing put on these shingles, a tinner's shears are all the tools necessary. It is impossible to get them on wrongyou'll see why when you send for a sample shingle and a book about "Roofing Right."
Suppose you send for the book and the sample to-day,-now. It will pay you to get at the real facts about the right roof.
corrugated iron roofing, -and it's all right, for its kind. Nobody makes any better. But corrugated iron isn't the roof for a farm building,-nor for any building that is meant to stand a long while. It is a good enough roof for structures that are meant to last only a few years,-but only "Oshaws, Shingles are sure to last a handred years and are good for a century.
Another thing about these shingles:insulate it far better than any lightningrod system ever could. Last year lightning destrayed over half a million dollars'

We will send, postpaid and free, samples of Pedlar Art Steel Ceilings and Side-walls, of which we make more than 2,000 designs.
rite for detatis

