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## Vol．XLVIII <br> Vol．XLVIII

LONDON，ONTARIO，DEGEMBER 4，1913．＇Yurejg SUOne9y9nd
No． 1079
For Baking Success
ster 9030 －This Oven Test

Success on some baking days can be expected，no matter what flour you use．But constant success is rarer． It can be assured in only one way． The miller must select his wheat by oven test．

So from each shipment of wheat we take ten pounds as a sample．We grind this into flour．Bread is baked from the flour． large in quantity，we use the ship－ ment from which it came．Otherwise we sell it．

Constant baking success comes as a matter of course from bearing his name．


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Aylmer Scale is the only 3 -point bear ing scale on the market.
The only scale that will weigh correctly The wheels are lare The wheels are large and encased All material and workmanship are firstCapacity of this scale, 2,000 lbs. Capacity of this scale, $2,000 \mathrm{lbs}$.
Size of platform without rack, $24^{\prime \prime} \times 366^{\prime \prime}$.

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Mais scale will pay for itself in a short time. Mail us $\$ 26$ to-day, and we will deliver tached, to your nearest railway station, if in Ontario, or $\$ 35$ with cattle rack. Let us hear from you.
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You will see the best Horses, Cattle, Sheep and Swine farms in Ontario.

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The best of all dairy investments Saves \$10. to \$15
per cow every year
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## President

For Christmas Boxes.
Sensible Gifts for
Sensible Men.
Suspenders
STAMMERERS



Vol. XLVIII.
EDITORIAL
This is the season. for renewings.
The winter show season is now in progress.

Most of the fall plowing should have been
Two Indian summers were experienced in many
On the farm, knowledge more than ever be

Renew the pleasure of your home, comforts of your family and profits of the farm

Will be sent' next week in the form of the Christ mas Number $\qquad$
There is sufety for the peopls in publicity try be unhampered-right ideals must guide.
$\qquad$ Now is the time to lay the plans.
$\qquad$ the family, no farm home is properly equipped
$\qquad$ Like the every-day farmer on his way to
factory or market town, if any class in the munity deserves a good road to travel over, it is the rural mail carrier.
$\qquad$ nearly fifty years, is its motto still, and is a
$\qquad$ who does not slight anything is most successful. make a success of winter feeding of live stock. How many of us enter upon our winter's. work energy into it we do the spring and summer work? Yet it is or should be just as important and valuable on the farm.
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nsible Men.
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The Farmer's Advocate AND HOME MAGAZINE.

- La LEADING AGRICULTURAL JOURNAL IN Mer dominion.
PUBLIBBED TREKLY BY
LAM WELD COMPANY (LITTEBD). jorin weld, managrs.
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 UQ Fin WILLIAM WELD COMPANY (LIMTTED)
koted the smaller the cost per case, basket, crate, box or barrel, as the case may be. Organiza one interested in the business of fruit growing, beekeeping, vegetable growing, or in fact, any other branch of agriculture in which there is an active association organized can well afford to he could for a small fee, join forces with the in Acential association, reap a qreat benefit there-
from and do his part in fostering and furthering from and do his part in fostering and furthering

A ${ }^{\text {S }}$ Subscription Christmas Bor. The outstanding event in agricultural journal-
sme of the year and of the coming week, will be the ismue of the "best ever" Christmas Number of "The Farmer's Advocate and Home Magazine'". Its
articles and illustrations will be representative of artcles and illustrations will be representative of
the most finished work of writers and artists of the most fank. Unlike other publications no extra charge is made for this remarkable number,
though worth at least one third the entire year's though worth at least one third the entire year s
reqular subscription price of $\$ 1.50$. A copy will also be sent together with all the remaining nur
bers of the present year, to new subscribers. bers of the present year, to new subscribers.
As a Special Christmas Box to all readers whose subscriptions are paid up to the end of 1913 , we will accept $\$ 2.25$ any time from now till Dec. 31st, 19w, ukscription to Dec. 31 own , 1914. Among your neighbors and friends there, is someone Who would value highly "The Farmer's Advocate", If brought to his notice. Let him know what a the year. You can safely say that its actual
cost to produce amounts to double the $\$ 1.50$ subscription price for which he secures the 52
copies of the year, and which will furnish more copies of the year, and which will furnish more
sound, practical reading matter for the farm and some than any other three agricultural publications combined.
Remember this offer is open only to Dec. 31st oo speak to your friend or neighbor personally or
over the rural telephone, befowe he might inadvertently order another paper. Obtain the sub-
scrption, at once so that the new subscriber will scrption, at once so that the new subscriber will
receive the larger number of this year's copies,
inclusive of the Christmas number with which inclusive of the Christmas number wo take advan
we are sure all will be delighted. To tage of the foregoing offer the old subscriber mus
of course send a bona fide new name. Yo cannot do yourself and your friend a better turn
than this in the closing month of the good old

The Lesson of the Arena. The urban dweller busy with city business, bition to professions goes to a live-stock exh become intimately acquainted with the character istics of different classes and तifferent breeds, bu live stock appeals to him, he enjoys looking at it, and he spends the day at the exhibitrom much the same spiritict seeing the sights of a large city. He has a good time; he takes pleasure out of everything he sees. Temporary delight may be all he, at the time, expects, but few things he sees are not educative; it adds to his knowledge of things in general, is instructi and valuable.
The stockman, the expert agriculturist goes to live-stnck exhibition to make a critical survey
the animals on exhibition. He knows good one at sight; he has had experience; yet there are things for him to learn. He must be ever on the alert for new developments in type
and conformation : he must know what the best judges demand in an animal. Therefore, he must see the stock together.
The young man from the farm attends a livestock exhibition to gain more knowledge of his chosen profession. He wants to see every animal of the breed in which he the show what there is in for him, be able to seo the animals ined up and placed so that. by comparison the cod and their inferior points are plainly brought before him as an object lesson. see the stock to advantace. There is only one satisfactory place to do this, and that is in the judging ring. Animals cannot be studied, critithe judging in the ring that educates where a competent judge makes the awards. A casual glance at the stock is not enough for the twentieth century visitor to an exhibition of live stock. The prime need of live-stock exhibitions is to encourage the breeders to produce mor good stock, and to educate them to accomplish this. The first requisite of such a show is then a view of all the spectators interested. The public demands such equipment, and it must come. Exhibition managements now see the need of it, and it is to be hoped that every large stock show in the country may, in the near future, be noted for tive feature of the show-the judging.

The Coming Issue of Issues
It is not an easy tnsk each year to gather a
class of material for our annual Christmas Num ber of such a high order as to eclipse all former
issues, but we feel that our readers, when they have carefully read and analyzed next week' "Farmer's Advocate and Home Magazine," wil agree with us that the standard has been agai
set one long notch higher. It will be replete from cover to cover with goor things.
The front cover in colors is a Canadian winter
scene, prepared by an artist of note, and must scene, prepared by an artist of note, and must
be seen to be anpreciated. The reading matter is all prepared by the best writers obtainable on matters of interest to all thoss who enjoy farm
life. The studions reader will find the editorial article on The Book of Books and the Farm
something entirely new nnd original in treatment of a reminiscent nature is an account by Dr. J. f. Rutherford of farming experiences in "Scotiand foreshadowing of the future of the horse, and an
excellent history of Percherons in America by Wayne Dinsmore. The lover of good cattle will
read with interest how the Aberdeen-Anœus has been develoned in Scotland-a historic sketch by
Tames R. Barclay. Sheepmen Canada over will Tames R. Barclay sheepmen Canada over wo
be interested in the decline and redevelopment of
our sheep industry, by T. R. Arkell. The bacon our sheep industry, hy T. R. Arkell. The bacon
hor has his inninus this vear in an excellent conde for the Trish", "There is nothen of the Emerald Sle, and all admirers of Trish character and
 resume of the acricultural year in Canada, by J.
H . Grisdale, is instructive. nairymen will digest "The word of Prof. H. H. Deans article or
"The outlook for Canadian Cheesemaking." The
in greatest poultry investigator in the United
States. Dr. Raymond Pearl discusses how to

the front cover an excellent article on the utilit and beauty of snow has been preppared by A. B. B
Klugh. New Ontario is not forgotten-C. A Galbraith tells of its advantages ; and to cap all the Home Department will be stronger than
ever, with articles of interest in the home. Girls ever, with articles of interest in the home. Girls Blythe Wilcox. Birds, The Farmer and His Wife, by Mrs. Mabel Osgood.Wright, President of the
Audubon Society of New York State is another Audubon Society of New York State is another
feature, and Peter McArthur has prepared Christmas Talk which all should read. All this excellent literature, illustrated and interspersed
with the best-finished work of the highest-priced cuniras and reproductious of masterpieces in printing by several of the most eminent of
modern artists; make this one the issue of all modern artists,
Christmas issues.

## Nature's Diary

By A. B. Klugh, M. A
Of all the phases of botany there is none of greater importance o han that which deals with the life processes of plants. and which is termed ptant physiology
Before we can understand anything about
plant physiology it is necessary to knom litut plant physiology it is necessary to know a little
about the substances which are concerned in the life processes of the plant, and this leads us a little way into the subject. of chemistry. All
substances belong to one of two classes, they are substances belong to one of two classes, they are-
either elements or compounds. Bv an element



Fig. 1 -Portion of epidermis of
Fig. 2-C mas sention throu
treat it in any w'ay we like, but we cannot makeit into anything simpler. We can, on the other
hand, build elements up into compounds. Thus we bring together the elements sodium and chlorine we have sodium chloride, common salt.
We burn carbon, it unites with the oxygen of the We burn carbon, it unites with the oxygen of the one atom of carbon has united with two atoms
of oxygen. Water is a compound of the elements. of oxygen. Water is a
hydrogen and oxygen.
The most. important elements which are used in the life processes of plants are carbon, hydrosium. These are all necessary to the life and growth of the plant and if anv of them are wantplant derives its nourishment. death from starvaplant derives its nourishment. death from starva-
tion will follow. There are other elements which are made use of by plants, hut as life may be secondary iniportance.


Fig. 3-Cross section of rootlet showing root
Of these elements the oxygen and carbon are
derived from the air, the hydrogen from water in the soil, and the rest from the salts of the soil The first life process which we shall consider Plants differ from anmais, in becing ay,le to use foon. The leaves from these to build up their from the air. This gas intors through minute found on both surfaces of mans leaves, on the lower surface only of others. While in such float-
ing leaves as those of watrit tities, they occur
and stomata that there are about $\quad 3.000$ of them to
the square inch in an apple 1.0 ind the square inch in an apple 1.9 F , and about 300 ,
ono to the square inch in The structure of the stomata is hown in Figures 1 and 2 . The "guard ceils," which enclose
the opening, control the size of the aperture. the opening, control the size wi the aperture.
If we take up a small root whit some earth
attached to it, carefully wast way the soil, and attached to it, carefully wast was the soil, and
examine it with a hand-lens shal see, just behind the growing point, an area covered with
fine hairs. It is these hairs which ahsorb the
water from the soil, and ther are really extenwater from the soil, and ther aro really exten-
sions of some of the outer ce?ls wis root. as
is shown in Figure 3. The root-hairs take up water by a process known as osmosis. To
understand something about osmosis we shall have to perform a little experiment. Take a
hittle bottle, fill it to the top with a solution of sugar and tie a piece of the inner membrane an egg tightly over the mouth. Place the bottle at the bor a few hours. When we take it out of there for a few hours. When we take it out of
the basin we shall see that. the membrane is bulged outward. Why ? Because the sugar solution has "attracted" water through the memthe bottle. Now, inside the root-hair is a solution of salts stronger than that in the soil, and in it, is drawn in through the cell-wall of the oot-hair. The water then passes into the root, ap the vessels of the
In the cells of the leaf is a substance known chlorophyll, which gives leaves their green
The chlorophyll, by the aid of light, is Ne to combine the carbon dioxide taken in from orm starch, which is the main plant food. The chlorophyll appears to act oy cercepting a considerable portion of the light rays which strike
the leaf, thus compelling them to expend their onergy. If light traverses a substance with omparatively little effect is produced. On the other hand, when it strikes a substance wa are produced. This work of chlorophyll is called "light" and 'building up," and in this procass only the carbon of the carbon dioxide is used, the stomata. The plants and animals are comple mentary to one another as far 'as the gasses of the air are concerned, up and the aimals using oxygen than they use up, and the animais using
up oxygen and giving of carbon dioxide from
their lungs. their lungs.
Plants use up some oxygen, for they respire just as truly as aninials do. and as in animals
the oxygen hurns up compounds in their cells, the oxys producing energy Some idea of the rate of starch formation in
plants can be obtained from the fact that in a summer day, firteen hours long, a squash plant manufactures three-quarters of an ounce of starch grown squash leaf has an area of about one and oneeighth square feet, and a plant may thear entire plant
many as a hurutrei of them. The
would then produce nearly nine and a half ounces would then, produ
of starch per day

The Concern of Goverment.
he cost of iving is not so muci infated food prices as infated living generally, in the citie and towns. People would are weronto recently stated, that in so far as the cost of foods is a factor, the situation is the result of long-growing conditions not to be altered in a day o year. Apart from remedies which the people can the restoration of agriculture to a higher public lavor. There has been an undue and almost
world-wide industrial expansion. To make con-world-wide industrial expansion. ditions favoration of all industry, on its busines side as well as its practice. should now be the particular concern of governments.

Giving trustworthy information from ever available source on the practice and business o farming and undeviating advocacy of the righ of and interests of its readers. Home Magazine. By form loyal sup port, for 1914.

## When the signers of the Declaration of Ameri

 can Independence, were affixing their names that ohistoric document, one of the to observed to the rest: "Unless we all hang thgether we shall all hang separatelf, wed by farm at ers, horticulturists aytheir business to-day

Couldn't do Without It. papers printed, and we have taken it for nearly
twenty years, and we could not get along very well without your valuable paper and hom inarazine.
Huron Co., Ont.

A Farmer's Politics.
Editor "The Farmer's Advocate" :
The other day I wrote an article
Thies to steer The polichics. It was not a political article, but it liect the public in Canadian economics as they altect the public in general, and the farmer in
particular. It contained a couple of mild jibes for the government. The editor wrote me that he was pleased with the screed, but that seeing that several bye-elections are on at the
present time, and in many sections where our paper is read political battles are being waged and remembering also that our paper has as many readers leaning to one side of politics as
to the other, we were obliged to go through the article and in places tore down a few statements which might be taken up by some of our readers
as altogether too strongly favoring one side of as altogether too strongly favoring one sides
politics. However, in cutting out the names of political leaders we do not in any way detract from the force and weight of the article. You
can readily understand that it would not do for can readily understand that it would ner Advocate' to publish anything savoring toe strongly of politics."
Here is
Here is a text to set us farmers thinking, to
see if we can't revise our attitude towards polisee if we can't revise our attitude towards poli-
tical parties. It was really a sad commentary on our narrowness that the editor should have
felt compelled by his readers to cut out the felt compelled by his readers to cut out the
names of the party leaders lest some of us take names of Are warts so small that we can't see the party leader we happen to favor criticized without taking offence and sulking like big boobies ?
Is there one of our number who would act so much like thirty cents as to write an editor and cut off our subscription, for instance, bscause his
paper contained a mild, timely criticism of the paper contained a mild, timely criticism of the
party we happen to favor? The editor's letter party we happen to favo
says yes, and he knows.
What is politics anyway? Annandale de-
scribes it as "the science of government: that scribes it as "the science of government; that
part of Ethics which relates to the regulation part of Ethics which relates to the regulation preservation of its safety, peace and prosperity."
As I look at it, my vote is a famnily affair, As I look at it, my vote is a family affair,
just as paying taxes is a family affair. If the Just as paying taxes is a family affial. If in stance, and clothes become twenty per cent. cheaper, my family would either buy more clothes
or other good things with that twenty per cent. The little ones who go to school in the cold weather are therefore just as much interested as
their father is in the tariff made at Ottawa, and their father is in the tariff made at Ottawa, and
just as much as they are in the prices father
gets for the produce he sells just as much as they are in
gets for the produce he sells.
In our anxiety to stick up for one of the party leaders and to swat anybody who ven-
ures to criticize him, even when our fairminded uess and commonsense tells us he merits it, we lose sight of the home, where politics should be gin, Too many of us look on politics as ${ }^{\text {g }}$
"game" in which two sides set out at election "game" in which two sides set out at election
times to win, honorably if possible, but win nimyow. We view the "game", through a men tal spy-glass as being played in a very big way
by very big men in a very big arena at ottawa. by very big men in a very big arena at Ottawa. comfort and happiness is apt to depend on the wisdom of father's decision when he marks hi
ballot. If we gave some sober, careful though解 the home side of politics and thought less of in donned the clothes of his opponente formerly


The Reward for Hard Work.
it as a "game" to become excited and rattle-
headed over, graft and corruption and "pull with headed over, graft and corruption and "pull with
the government" would soon cease and this Canada of ours would be a better place to live
in. And furthermore, editors would not be obin. And furthermore, editors would not be ob-
liged to cut out the names of party leaders from their contributors' articles, because we shopld all be discussing the business of the country,
"the science of government," calmly and serenely on their merits, with a single eye to "the preservation of the country's safety, peace and prosperity." We should forget the foolish superstition which has crazed so many of us-that
one party is ailways right and the other alway one party is always right and the other aiway is absurd.
People are talking about women in public life,
votes for women and that sort of thing. Why ? votes or women and that sort of thing, Why?
Because wo are beginning to see that, as lawi
are made by elected politicians, and as they at are made by elected politicians, and as they at-
fect women and children, so women have a fect women and children, so women have a
mighty big interest in every process by which
the laws are made. mighty big interes
the laws are made.
Eyery man who has girls going out into the
world knows the dangers that surround them world knows the dangers that surround them from scoundrels on the lookout for prey.
therefore wants the laws which protect therefore wants the eww which proce If the father
daughters to be made very strict.
feels that way, how much more so does the feels that way, how much more so doee the
mother feel? She hasn't a vote, but she has as mother feel? She hasn't a vote, but she has as
much interest in her husband's politics as she
has in his daughter. These are the politics that has in his daughter. These are the politics that
begin at home; it is a family affair, and If you begin at home; it is a family affair, and If you
think of it in the right why, you wil roalize that the state is only the familly you whllipled randize mat mat
nified, and you will come to feel that your vote nified, and you will come to feel that your vote
is a sacred thing which you cannot allord to is a sacred thing which you cannot afiord to gamble with by "backing favorites" on election on former occasions, or because father and
grandfather voted the same ticket. There to 10 grandfather voted the same ticket. There ring of progress in. "A Conservative (or Lib eral) I was born and a Conservative (or Liberal)
We farmers need to take fresh stock of what political parties and partyiem stand for, not be cause of any objections to party government, but
because it is time for a change in our attitude because it is time "or a change in our attitude
towards politics, "the preservation of the coun try's safoty, peace and prosparity"," We should
cease thinking of it as the "game", of politice. The salety, peace and prosperity of the home too much wrapped up with the mark put on thet
scrap of paper which we deposit in the battot box for the important act to be called a "game"
We call this the Age of Progres, as it surely
When We call this the Age of Progress, as it surely
when we see Niagara Falls milling the cowe in
Etable a hundred milea away. Still many of w atable a hundred miles away. Still many of an and vote for that party through right and I know a man who before the general eleetiol with his pen, to upset the Government then in power at Ottawa because he had sufficient ev dence that, as he put it, they were "rotten. and at the next general election he worke measure up to preeleotuion promiaes, "Iree trad as they have it in England," and so on got them to voter him into poer and then sim
ly donned the clothes of his opponents formert
the Tiberal leader because he didn't like the reci-
procity pact, not on the economic side, but be procity pact, not on the economic sicica, sut be men to prevent by reciprocity a complote union
of the Britannic nations. And now this man is not any too well pleased with the present Gov-
He doesn't like the way the navy arnment. He doesn't like the way the navy question has been handing Act was put through
et the way the Banking
last year, with no advancement in the interests last year, with no advancement in the interests
of the public. And if another general election comes along there's no knowing where this man may find himself on ballot day.
Now, I am that man, and if I had my time to
so over again I would take the very same course, go over again I would take the very same course,
because $I$ i believe it is the only course an openminded man should take. I don't hold myself up as a model, but your hide-bound party man
will no doubt think J'm in a muddle. Woll, as the old lady replied when Well, as the old lady replied when the doctor ethed of the was better, I am and I ain't."
Amid all the playing lor the retention or win-
nilig of office that has been going on at Ottawa
sinco November, 1911, I confees to being somesince November, 1911, I confess to being some
what puzzled. But by the time the next genera coction comes round, when , the wheat has all
been sifted from the "chaf." which is a good name for much of what passes currency as states
manship. I shall no doubt know where to find manehip, ind how to mark a ballot slip.
Now, what would happen if every voter wer to got into a similar "muddle ?" Simply this,
my dear fellow farmers : One government would
got hoisted out of office so quickly after another get hoisted out of office so quickly after another sould soon take stock of themselves and wor ernment, elected on a platiorm of real reform and progress, and intent on carrying them out. But as long as the people are indifferent, and
roedy to follow the bell-wether to the polling booth, whooping it. up like grandpa, professional politicians will be indifferent too, and we shall get indifferent legislation.
Happily there is a widening discussion of
party weaknesses. A few years ago nobody was party weaknesses. A few years ago nopen met-
bold enough to discuss the subject in open meet ing. Now even the partizan newspapers are ut-
tering much truth and soberness. The sense of thee country appears to be that both political
parties need to be horn again. Newspapers may parhort, the leaders may look with saddened long ing for a new birth; but real progress must be
gin with the individual voter. Which, being ingin with the individual voter. Which,
terpreted, means you, John Smith, and me,

Northumberland Co., Ontario

## THE HORSE.

Good Swede turnips are relished
One good-sized one a day is enough.
If the horse's roughage ration is to be straw
The good horseman looks tor the right kind :

The horse still remains the greatest drawing
card at a live-stock show, notwithstanding the card at a live-stock show, no
popularity of the automobile.

Timothy hay sells at the highest price on the
market, but clean, well-cured clover makes good market, but clean, well-cured clov
winter feed for the farm horses.
Buy a little bran; it is a good investmen
where colts and in-foal mares are being wintered where colts and in-foal mares are being wintered
and, in fact, may be used to advantage with and, in fact,
miost Idle horses.

In every district where there is not already a good stallion, if some one man does not make
the purchase of one, a few prominent men should the together and buy the best horse available.

Some mares abort each year as a result of an accident. A box stall or stahle door left swing-
ing open may blow shut on her as she is going through, and the harder she tries to get through the tikhter she is squeezed. This may cause her
to "slip" her foetus. Keep the doors fastenea.

The brood mare must have exercise, but some
care is necessary that she is not injured in the yard or naddock. Turning her out with one or
more nlayful colts is sometimes disastrous. Colts mick in play and may injure the mare, clumsy becallse of carrving a developing foetus and unable
to get out of the way, and the injury may result in an abertion.

The New York Horse Show
Canadian horses again pranced themselves infame and money at the annual New York Horse Show, Madison Square Gardens. Hon.
"lifford Sifton's "Cleveland" took the blue ribon, being first in a class of qualified hunters. In the eontest for sets of quallified hunters, Mr. Gifton's trio, Elmhurst, Ranello and Sunday Morning, took the blue ribbon. On the second day, the sifton entries were winners in the class ior hunters or jumpers over four successive jumps of five feet. J. W. Sifton's Mayfair won the blue and W. B. Sifton's Skyscraper took fourth prize. On the third day, in the contest for pair of jumpers going over the hurdies abreast, Sarah Moore and Billy, the entry or Capt. Rodden, of on entry, Wasp and Elmburst. The challenge cup for best Hackney at the show went to Aquinus, of the Auburn Farm. He won a similar honor in 1911. Miss E. Viau, of Montreal, won the Waldorl-Astoria challenge cup for best half-bred Hackney with her gelding, Earl Grey, driven by A. Yeager, Simcoe, Ont. She took
several awards also in harness horse classes several awards also in harness horse classes qualifited hunters ridden by qualified hunt-club members, J. W. Sifton riding. In the pony
class, Master and Masterpiece, exhibited by Major class, Master and Masterpiece, exhibited by Major
C. W. MacLean, Brockville, Ont., won the blue ribbon in harness class, and in the class for ponies not exceeding thirteen hands two inches,
Masterpiece took the blue and Master the red Masterpiece took the blue and Master the red
honors.
On the closing day, Hon. Clifford Sifton'e On the closing day, Hon. Clifiord Sirton'
Ranello was adjudged best, heavy-weight hunte
and Major W. T. Rodden's Outlook, reserve and Major W. T. Rodden's Outlook, reserve weight hunter class, and in middle-weight hun ters, Sunday Morning took second, and also first qualified hunters up to carrying 180 pounds third. C. W. MacLean took championship cup for pony in harness. With four entries Majo Maclean captured four blues and one champion-
ship. In qualifed hunters through the ship. jump, W. T. Rodden's Sarah Moore took the
pen
yellow ribbon. The spectacular event of the day yellow ribbon. The spectacular event of the day
was the challenge cup coach race, four-in-hand, was the chalienge cup coach race,
seven miles, in 36 minutes, won by Emil Seelig. The greatest winner of the show was Judge Wm. H. Moore, whose entries took 30 ribb
ing 17 blues and five championships.

## United Horse Breeding

 Horses are no longer the only power for farm we daily replacing the horse as the horse has re placed the old-fashioned ox-team of pioneer days. With the advent of motor power comes a falling off in the demand for horses, but withal to prices. With this new condition arising, breed ers are forced to produce high-quality animals, because they can be disposed of any time at fancy prices.The farmer or breeder cannot always select the mare, for he usually has the female, but the sire must be chosen to mate each time. Here is the breeder's opportunity and here often the
breeder falls down. Unless he is experienced and a good judge of horses, the stallion in the community, fat and sleek, will look good to him, if placed beside another horse, the difference in conformation, quality and action will be nt once
apparent. A horse-raising district has a decided apparent. A horse-raising district has a decided
advantage over a community where interest doe not center around any one particular line of live stock. Buyers will go where the stock niary be
found in quantities, and in Ontario there ure disfound in quantities, and in Ontario there ure dis
tricts known as horse communities. In order that the farmers might have the use of the very
best sires, instead of being influenced by flesh best sires, instead of being influenced by desh
and shiny coat, a small horsemen's league might and shiny coat, a small horsemen's league migh
be formed in a district with enough members to afford the purchase of a good stallion, or better still, pledge their patronage to an individual member who would purchase a horse up to their
standard and insure him a profitable fee. This system would standardize the type of animal and the one horse would better suit the community years than it did at first. Live-stock shows afYord splendid opportunities to study strains and might decide on a horse or character delegates to suit the members of the league. Community breeding gives a place a name and a decided ad-
vantage over unorganized and individual efforts.

## LIVE STOCK.

The New National Exhibition at Toronto.
nued from last week.
BEEF CATTLLE
SHORTHORNS.-Visitors to the National Live Stock and Dairy Show were not disappointed in the beef-cattle classes. One is well within her limits such a uniformly good lot of Shorthorns and the prize winners have never been excelled at any Canadian show. The senior classes were tolerably wass quality. In the junior classes were all frst-class quality. and itwas a pleasant sight to oe a long line, progenies of the old English and Aootch stock, competing best material, it was interesting, for in it was Missie Marquis, Smith \& son's great show bull, ho at Toronto and Ottawa this fall was grand
hampion of the breed. He could not stand up. champion of the breed. He could int stand up. howd Gay Monarch. Missie Marquis has gone of
hnd doom since the this along the back and top line. The telling strain of shows and fitting furced him
into furth place, but he has a past which comes into fourth place, but he has a past which comes
nly to the very best. Among the two-year-old only to the very best. Among the two-year-olda
came Gloster Fashion and Right Sort. Peter White, of Ottawa, had no harder task in all the beef breeds than to decide between these two
great bulls. Right Sort was a good one, with great bulls. Rilght Sort was a good one, with
a stronger back and better head and face, and perhaps showing a tendency to more ruggedness hroughout than Gloster. Fashion, but the latter bull was so blocky in type, so straight in his
lines, so low set and so smooth throughout with even flesh and quality that at last he won the day and became senior and grand champion of
the breed. In the senior yearlings. Wawalton the breed. In the senior yearlings, Wawalton
Renown beat Meadow signet for first place and later landed the junior championship. He is large, white bull for his age, but has few super-
ior points to Meadow Signet. The decision ior points to Meadow reignet. ine this class. Eight two-year-old heifers came forward and Maxwalton Musin struggled into premier place.
Jealousy 4th caine second, with Crystabel third. Jealousy 4th cane second, with Crystabel third
The winner had her winning points in her strong breast, girth and general quality, while the bec ond had a greater spring of rib. The largest
class wus thirteen senior heifer calves, with Augo classa was standing first and Maxwalton Foxglove a red heifer with good constitution but a littlo up-standing, second. Silver Quen had the form
and flesh to win, but she is a little hard to the and flesh to win, but she is a litcle hard to the
touch, and went third. Exhibitors.- Mitchell Bros, Burlington: Kerr \& Davidson, Balsam Frank W. Suith \& Son, Scotland, Ont.; Jas,
Leask \& Son, Greenbank ; Carpenter \& Ross, Leask \& Son, Greenbank; Carpenter ${ }^{\text {\& }}$ R Ross,
Mansfield ; Anoka Farme, Waukebha ; John Gard house \& Sons, Hightield; A. F. \& G. Auld, Eder Moflatt; E. Wrien \& Sons, Reo. Amos \& Sons Miller, Stouffille: D. A. Graham, Wyoming Pritchard Bros., Fergus; Geo. Gier \& Son, Wal-
demar : Kyle Bros. Drumbo : Wm. Wilson \& demar : Kyle Bros., Drumbo: Wm. C. Wilson and over: 1, Carpenter \& Ross, on Craigallachie, by The Choice of All; ${ }^{2}$, Anoka Farms,
on Suitan Stamp, by Whitehall Sultan: 8, Kerr \& Davidson, on Gay Monarch, by Gold Sultan: 4. Frank Smith \& Son, on Missie Marquis, by clipper Marquis; 5, Mitchell Bros.o on Raphael, oka Farms, on Gloster Fashion, by Leader of Fashion; 2, Mitchell Bros., on Right Sort, by Red Rosewood; 3, John Gardhouse, on Lavender Gainford Victory, by Gainford Pride 2nd; 5, A. F. \& G. Auld, on Broadhooks Ringleader, by Newon Ringleader. Senior yearling bull: 1, Cardaler \& Ross, on Wawalton Tenown, by Avon-
dae. Amos \& Sons, on Meadow Signet, by Scottish Signet; 3, E. Brien \& Sons, on Sea ham, by Trout Creek Wonder ; 4, D. A. Grayearling bohby Burns, by Roval Archor. $\left.\begin{array}{c}\text { Junio } \\ \text { y }\end{array}\right)$ Mitchell Bros., on Cluny, by Edgar of Cluny; 2, Robert Miller, on \& Ross, on Come-in-Time, by The Gallant: 4, FA Watt, on Clan Alpine, by Proud Monarch. Senio bull calf: 1, Geo. Gier \& Son, on Matchless Hero, y Mildred's Royal ; 2, Anoka Farms, on Royal Silver, by Mute Sultan ; 8, A. F. \& G. Auld, on
Randsman Commander, by Bandsinan Leask \& Sons, on Flower King, by Orange Fm-
ber. Junior bull calf: Kerr Sittyton Favorite, by Gay Monarch ${ }^{\text {Savidson, }} \mathrm{F}$
Wat Watt, on Favorite, by Gay Monarch ; 2, F. A. A.
quis: 3 , Anokard Perfection, by Gainford Marquis: 3, Anoka Farms, on Lone Star, by Prince 5, Mitchell Bros., on Cranright, by Right Sort Cow, three years and over: 1, Mitchell Bros., on
Queen Mildred, by St. Augustine: 2, Carpenter

DECEMBEER 4, 1913
THE FARMER'S ADVOCATE.
\& Ross, on Maxwalton Gloster 3rd, by Avon-
adeo 3 , Robt. Miiller, on Princess 3rd, Gy Gloster's Choice i, 4, Anoka Farms, on Winsome Sultan, by Whitehall Sultan , 5, John Gardhouse, on
Blossoms Lady, by Prince of Archers ; 6 , Car Beonser \& Ross, on Maxwalton
pontoster, by Avon-
dale.



 lage Bridegroom. Senlor yearling heilier :
Carpenter \& Ross, on Maxwalton Rosebud, Avondale; 2, Anoka Farms, on Fancy Mine, by Sultan Mine ; 3, Carpenter \& Ross, on Maxwal-
Lon Roan Lady, by Avondale ; 4, Anoka Farms, on Duaness dlotoster, by Sultan, Amine. Junior yoarling heiter: 1, Anoka Farms, on Village
 Nonparell, by Bridhrae Suatton; Gloster Sth, by Avondale, and Maxwalton Queen, by Avondale
4, F. A. Natto on Heather Belle, by Proud MonAugusta, by Fond Memory; 2, Carpenter \& Ross In Maxwalton Yoxglove, by Avondale 8 , 8 nd 5 ,
O. Watt, on Silver Queen, by Gainturd Mar-


 Avoncale is bay Monarch; 3, Mitchell Bros., on Sooten, Beauty, by Right Sort ; 4, Anoka Farms, on Anoka Clipper, by Sultan Stamp. Graded
 Senior and grand champion bull : Anoka Farms
on Gloster Fashion. Junior champion bull
 Carpenter \& Ross, on Wawaiton Renown.
and grand champion cow: Anoke Farms, on
and Maxwantion Musin. Junior champion female
Carpenter \& Ross, on Maxwalton Roan Lady. Carpenter ans. -White faces were more numer Ous than the Angus, but they could not measure ous than the Shorthorns in numbers. Yive and gix
upere out in some classes, but the average ran
wit were out in some classes, but the average ran
much lower. Honnie Brae 21st, a winner at the Canadian Na

 class, but third. and smooth
Cliford's Miss Brae 26 th was again the win-
 won from Rubelle 17 th of Ingleside. Rosali Exhihitors.-L. O. Cliford, Oshawa; Jame
 A Blackstone . 2, Smith,



 Hunter, on Commander 2nd, by Newton Led ; sie
 26th, by Bonnie Brae 3rd; 2. Smith, on Rubella


 on Miss Dale, by Clover Leaf Dale buth Heifer, enior yearling: 1́nde 2, Smith, on Rubelle Ingleside 33rd, by Bonne Brae 21 tr, 'Mrs.
 Heilier,
Fairfax, by Perrection Fairfax; 2 , Lady Blanche
Mise loth, by Bonnie Brie 31st: 3, Page, on Mise Jude, by Crescent Lad; 4, Reed, on Heifer, senior or
by Sir Mark of Ingleside 2 nd. by Sir Mark of Ingese
calt : 1 , Cliford, on Nay Queen 5 th, by Refiner 2. Smith, on Laura 35th, by Refiner; 3, Parge,
on Miss Brae Soth, by Bonnie Brae





abermeen-angus.-Three exhibitors led Whit at this event, but the closest battles were
bectween Bowman and Lowe. The stock was in sctween showman and Lowe. The stock was in
selves to he conficion, and they show them-
 smeothness of body and depth and evenness of feeshing, make them worthy of a high place in
the livestock industry Exhibitors,.-Jas. Bowman. Guelph; John Lowe, EElora. Thos. B. Broadioot, Fergus. Fark Wizard by Elm Park Rincleader : 2 , Bowman, on Beauty Prince, by Prince of Benton, Two.vear-old bull : 1 , Bowman, on Young Leroy,
by Ieroy Brd of Meadow Brook.
Yearling buil : 1. Bowwian, on Beauty's Erwin, by Frtwin C.; 2,
 $\frac{\text { Rellmedia Proud Boy; } 2 \text {, Rowman, on e. F. }}{\text { Khiser }}$. Kriser 2 nd, hy E. P. Wizard ; \% Bnwman, on E.
P. Wizard Brd, by Beauty's Prince: 4, Broad-


A Leicester Champion of 1913.
oot, on Balìedia Keepsake's Elmar 2nd, by
 E. P. Beauty 3rd, by E. P. Kaiser ; 2, Bowman,
on E. P. Rosebud, by Lord Val 2nd ; 3, Broad-
 Pot, on Balmedia Header, two years old: 1,2 and 3, Bowman, on E. P. Pride, by Magnifcent.
E. P. Beauty, by F . P. Ringleader Brd, and E. E. P. Reauty, by E. P. Ringleader Bra, and year
 Violet, by Proud Elmar 2nd, and Balmedia Mays,
Dv Proud Elmar 2nd. Hefler calt: 1 and 8 , by Proud Elmar 2nd. Hoifer calr: 1 and
Bowman, on E. P. Pride, br Magnifcent, and E.
 Middlehrook Pride 1oth, hy balme Balmedia Prouid


Gloster Fashion
Senior and grand champion
Toronto
last month.
Toronto last month. Shorthorn buil own the Now National
Toronto last mont 1 and 2 . Bowman. Senior Boy. Graded herd 1 and 2, Bowman. Semior
and grand champion bull, Bowman, on Elme Park
 geaut, on E. P. Beauty 3rd. Junior and grand champion temale, "This breed was represented by only one exhibitor. In a naturat part in a animals might where no skill or trouble is spared to fit the individuals and have theodera and foedspared condition, as a model to breaders and
icras, they were an outstanding incongruity. Hay
ing no competition it was not necessary to keep
hem in show condition or lead them into
the
 patrons enthusiastic And sincero enough to it-
crease the herras and numbers. it might well be
removed from the prize list of our fairs and the removed from the prize list of our fairs and tho
money be divided
mongst more poplar breate
 money
Guelph.
hieep.
Never before at any Canadian show have so
many high-quality individuals come forward. Ail many high-quality indilviduals come forward. All
sheepmen pronounceed the exhbibit superior to anyhheipmen prenounced the exthitits superior to anyof the inferior animals being abseant to a marriced The grand champlon wother was found in to shearling owned and brought out by J. \& D. J.
Campbell, of Woodrille, Ont. Two crossee oi
Shrren Shropshiree have given thia, wothor acompact,
low-down form, and he had been atted to low-down form, and he had been fittod to were
wother
the res ring with a Southown and Lincoin wether,
discerded discarded. ©hamion long wool pen wore a alight in-
deed. The tincoln breod getan the credit for this




 pon with all ittit individuals of Dodding breeding
they made up an aggregation capable of winning
 Otswolds, Leiceatere and Tincolna, Jas. Doug-
 Brookilin, Champion winners and grades
Croses, , W. A. Dryden; and Jas. Douglas. Cotswou.Ds.-Exhilitors.- - E. F. Park, Bure

 1, Park; ${ }^{2,8}{ }^{8}$ and 4, Brien. Wwo lamb: 1 and pen : 1, , Park', $; 2$, Brien. Pen lambe : 1 , Dolson;
2, Brien
2, Brien.

 Ram, shearling iam, Whitelew.: ${ }^{\text {Rodgrer. }}$, Ram




 . Hanmer, Burlord; . He Firner, Burlordi








 OXFORDS.-Exhibitors.-P. Sylvestre, Clair-






 . Arkell ; 2, H. H. A. Arkell.
year will remedy any defect in this particular.
YORNKSHIRES. YORKSHFIRESS.-The exhihit of Yorkshires was
one of the best ever brought together on those
historic grounds. one of the best ever brought together on those
historic grounds, and reprosented the best efiorts
and fitting of many of the leading Canadian breedand Itting of many of the leading Canadian breed-
ers they were judged by Prof. G. E. Day, Of Guelph, ers they were judged by Prof. G. E. Day, Of Guelph,
and exhinited by J. Featherston \& Son, Streetsville; J. E. Brethour \& Nephew, Burford ; R. S. S.
Frisby, Victoria Square; W. Manning \& Son,
Woodville Sunnybrook Farm, Eglintan, and Wohn Duck \& Son, Port Fredit. Egintan, Boar, two
Jond
years and over had an entry of four ranging in years and over had an entry of four ranging in
size from 700 to 1,200 pounds, of a type and size from 700 to 1,200 pounds, of a type and
quality seen nowhere else in the world outside a Canadian showring. First went to Manning on
last fall's Canadian National champion, Eldon last fall's Canadian National champion, Eldon
Duke ; second, to Frisby, on Eli's Royal Gover-
nor ; third and fourth, to Featherstone, on Annor ; third and fourth, to Featherstone, on An-
derson's Money Maker, and Suny Brae Gold-
 12 and under 18 months : one and three, Feather-
ston; two, Sunnybrook Farm. Boar over six
snd under and under 12 months: one and two, Featherston.
Biar under six months: one and four, Brethour; two, Duck , three, Featherston. Best boar, any
age, Manning. Sow two years and over: one age, Manning. Sow two years and over: one
and two, Featherston; three, Manning. Sow
over 18 months and under two years : one and over 18 months and under two years: one and
two, Featherston ; three, Manning. Sow over 12 and under 18 months: one, Featherston; two,
Brethour; three and four. Sunnybrook Farm.
Sow over six and under 12 months : one, two Sow over six and under 12 months: one, two
and three, Brethour: four. Featherston. Sow
under six months: one, Featherston two and under six months: one, Featherston; two and
three, Brethour. Best sow any age, Featherston.
Boar and two sows: one. Brethour; two and Boar and two sows: one. Brethour; two and
three, Featherston; four, Duck. Litter of three
one and two, Brethour. Boar and four sows, all under twelve months: One, Brethour ; two,
Featherston. Farrow, six munths and , under Featherston. Farrow, six munths and unde
nine: One and three, Brethour; two, Feather-
stonn ston. Barrow, under six months: One, Feather
ston; two, Duck; three, Brethour. TAMWORTHS.-Tamworths were out strong,
both in numbers and quality, exhibited by J. D,
Douglas \& Sons, Mitchell, and P. W. Boynton \& Douglas \& Sons, Mitchell, and P. W. Boynton \& Son, Dollar, the awards beeng pe exception of sec
son, Norval Station. With the tion seven, for sow over one and under two
years, where third went to Boynton, all the
awards went to Douglas. awards went to Douglas.
HAMPSHIRES. -This breed, made a strong
showing from the well-known and high-class herds showing from the well-known and high-clats herd
of Hastings Bros., Crosshill ; J. H. Rutherford, Caledon East, and T. Readman, Erindale. They were judged by S. Dolson, whose rulings were a over, first went to Rutherford, as did also second and third on boar over one and under two years.
Readman's winnings included second Readman's winnings included second on boar un
der six months, third on sow over one and under six mosens, third on sow over one and un twelve months, and third on boar and two sows. ships and the barrow prizes, went to Hasting CHESTER WHITES.-This breed was out
stronser than has been seen in Toronto for sey eral years. Besides the two noted herds of D DeCoursey, of Bornholme, and W. E. Wright \&
Son, Glanworth, a strong exhibit was brough out by P. Sylvester, of Clairvaux, Que. Worthy
of note was the strong character of the entire of note was the strong character of the entir This class was also judged by Prof. Day, whose awards were as follows : Boar, two years and
over : One, Sylvester ; two and three, DeCoursey Boar, over one and under two years : One and three, DeCoursey ; two, Wright. Boar, over six
and under twelve months: One and two, DeCour Bey ; three, Sylvester. Boar, under six months One and three, Wright; two, DeCoursey; four,
Sylvester. Best boar, any age: Wright, on hi six months and under entry. Sow, two years
and over: One and four Wright. and over: One and four, Wright; two, DeCour
sey ; three, Sylvester. Sow, over one and under two years: One, DeCoursey; two and three,
Wright; four, Sylvester. Sow, over six and Wright; four, Sylvester. Sow, over six and un-
der twelve months: One and three, DeCoursey two, Sylvester; four, Wright. Sow, under six
months: One and four, Decoursey; two and three, Wright. Best sow, any age : DeCoursey and three, DeCoursey. Litter of three : One, Wright; two, DeCoursey, Rarrow, six and un-
der nine months: One and two, Wrest der nine months: One and two, Wright; three,
DeCoursey. Barrow, under six months : One and
three DeCoursy. DeCoursey. Rarrow, under six
three, DeCoursey ; two, Wright.
RERKSHIRES.-The battle royal of the swine exhibit came in the Rerkshire classes, some of
which showed a remarkable uniformity, and high class merit was conspicuous all through the exhibit. Again Prof. Day placed the awards for the following well-known breeders: S. Dolson \&
Son, Norval Station; H. Dolson, Alloa; W. W. stownridce, Gergetown; Josh Lawrence, Wood-
stack; P. Woynton \& Son, Dollar ; E. Rrien \& Son, Ridgetown, and Frank Teasdale, Concord.
Awards.-Boar, two years and over: One, Brown-
two years: One, Teasdale. Boar, over twelve S. Dolson; three, Lawrence. One, Boynton; two, under twelve months: One, Lawrence ; two, Brien; three, H. A. Dolson. Boar, under six
months : One, H. A. Dolson; two, Brien ; three Boynton. Best boar, any age : Brownridge Sow, two years and over : One and two, Brown
ridge; three, Boynton ; four, H. A. Dolson ridge : three, Boynton ; four, H. A. Dolson,
Sow, over eighteen months and under two years One, Brownridge; two and four, H. A. Dolson;
O. A. Dhee, S. Dolson. Sow, over twelve and under three, S. Dolson. Sow, over twelve and under son ; three and four, S. Dolson. Sow, over six and under twelve months: One and two, Brownridge; three, Brien : four, H. A. Dolson. Sow,
under six months : One, H. A. Dolson. under six months: One, H. A. Dolson; two Brownridge: three, Brien. Best sow, any age
Brownridge. Boar and two sows : One, Brown
ridge ridge ; two, H. A. Dolson ; three, Brien ; four
Boynton. Boynton. Litter of three: One Brien © two
Brownridge. Barrow, six and under nine months One and three, P. Dolson ; two, Brien. Barrow,
under six months: One and two, Brien ; three, under six months : One and two, Brien ; three,
S. Dolson. EXPORT BACON HOGS, PEN OF THREE,Not for many years at the Toronto, Guelph or Ottawa shows has the exhibit of bacon hogs been up to the standard of excellence shown here, nor the fitting so uniform all through, comments on all sides. In the class for pure-breds, there were
eleven lots out, exhibited by J. Featherston \& Son, John Duck, D. Douglas \& Son, W. Manning Prot, Da, F. Brethour \& Nephew and S. Dolson. went to Brethour : two to Duck ; three, four and six to Featherston: oight to Douglas, and nine In the class for grades or crosses, nine lots out and the quality was well maintainad. The exhibitors were the same as above with Brethour ; trom R. Douglas; four, Frisby ; five, Manning

Sweep down the Stable Walls.
Now is the time to look after the cobwebs in
Now is the time to look after the cobwebs in
the stable. My hired man came in from the field the other flay and said. "'Mou will have a my watch." A watch he had purchased but two days before. He wanted to know if watches would stool well, and how long it would be un-
til he could grow a grandfather clock. His he could grow a grandfather clock. His
mind was on the old saying, "What you sow you also reap." It is the same with the cobwebs, if you let them alone they will multiply, which is
detrimental. Where you see cobwebs and dirty detrimental. Where you see cobwebs and dirty
stables you usually find unthrifty cattle, horses and pigs. In fact nothing is likely to do well
where these acumulate in abundlance where these accunuulate in abundunce, at leas
not so well as if it were not there. This is the time of year at which all stables
hould be swept thoroughly. There are plenty of wet days, and a man is hetter at that than an old broom can make a big change in a large stable in a short time.
If the stable walls and ceilings have not bees
swept before the cattle and other stock have been put in, it would be better for them to stand out in the cold a few hours while they are swept and
the dust is allowed to settle, than to stand in an unhealthy stable all winter. Cleanliness and healch go together, while dirt and
generally found in the same stable.
If the stables could be swept early in the fall and given a chance to air well before any stoc go in, so much the better, but that is the time
of year when the farmer is busy getting out roots of year when the farmer is busy getting out root
and finishing his ploughing, so he has little time and anishing his ploughing, so he has little time a wet day the cobwebs are neglected. There are as getting the broken window panes replaced with
new ones, and cow-chains or mangers which need new ones, and cow-chains or mangers which nee
repairing before the dead of winter sets in.
Dufferin Co.. Ont.
CLIFTON M

There is one particular in which management that is in the arrangement and spelling of name of animals and exhibitors in their catalogues. It
is a source of worry to the man attempting to is a source of worry to the man attempting to
report an exhibition to find the same man's name spelled three or four difterent ways, or to find the animal's name which appears several times
spelled about as many different ways as it has spelled about as many different ways as it has
letters in it, and that means a few in the case of Holstein cattle or Percheron horses. Exhibi-
tors and the reading public like to know who tors and the reading puhlic like to know who
owns the winning animals and what the correct names of those animals are. This is a matter wnrthy the consideration of all show manage-
ments, some of which have great room for ments, some of which have great room for im-

COTSWOLDS.-Yearling wether: 1,2 and 4 ,
Brien : 3, Park. Wether, lamb: 1, 2 and 3 , Brico ; 4, Park.
Brien ; 3, Park. $\begin{aligned} & \text { Wether, } \\ & \text { Best wer lamb: lamber : }\end{aligned}$
 Kelly; 3 and 4, Whitelaw. Wether, lamb: 1, 2 SHROPSHIRFS.-Yearling wether: 1 and 2 Carapbell: ${ }^{4}$, W. E. Wright: ${ }^{3}$, Lloyd-Jones
 Lloyd-Jone
Campbell.

OXFORDS. - P. Arikell took all the awards. southoowns.-Yearling wether: 1, Thloyd-
 Hainuer
Jones.
DORSETS.-Yearling wether: 1 and 2, W. E. Wright; 3, F. Fr. Wright. Wether, lamb: 1, 2
 W. E. Wright.
I.INCOLNS.- Yearling wether: 1 and 3, Lin-
den ; 2, Lee ; 4, Brien. Wether, lamb: 1 and 2,
 Lee : 2, Linden. Best wether, Linden. Wether lamb, Kelly
SUFFOLKS.-Yearling wether: 1, Bowman 2, Henderson. Wether lamb: 1 and 3 , Hender-
son $; 2$ and 4 , Bowman. 3 wethers: 1 , Henderson; 2, Rowman. CROSSES, long wool.- Yearing wether: ${ }^{1}$, , ,ee; 2, Whitelaw; 3, Brien.
Wether lamb : 1, Whitelaw ; 2. Iinden ; 3 , Brien. 3 lambs: 1 , Brien; 2, Whitelaw ; 3 , Linden.
Champion, Lee. Short, wool.-Yearling wether: 1 and 3, Camp-
Well ; 2, Kelsey. Wether, lamt: 1 and 2, Kelly;
 champion wether, Campbell.

That the swine hreeders of Ontario and Quebec
preciate the efforts put forth by the manareappreciate the efforts put forth by the manage-
ment to establish a really national show way
shown in the large and representative entry in shown in the large and representative entry in
the various breeds, an entry totalling about 33 an
head an increase of about fo over the entry at head, an increase of about so over the entry at
the Cnnadian National in September last, and of
" quality never excelled by any former exhibition in Cranada. The judging accommodation was


[^0]
## THE FARM.

## Agricultural Education in Canada.

 A short time ago we published a list of thenumber of students attending the agricultural
 430, of which 321 hale from Ontario. The num-
berre coming from other countries and provinees
were published in our issue of october 23rd. Now more published in our issue or october 23 trd. Now other
that the regular courses are open at che the ot that the reel colleges and schools in Canada, we
agricultural
hive obtained $f r o m$ their offciall heads statements aliricuturained from their official heads
hivining the number of students at each. giving the number ine East the Nova Scotia Comirencing Conlege opened on November 4or
Agricultural
last with an enrolment of of 90 which, in propor tion to the size of the constituency, is a mose
tetisfactory attendance. $A$ number more ap satisisactory atcencen received from students, who
plicions have ben
wing to the lateness of the season, will not be owing to the lateness of the season, whill hot be the
able to report tor a short time
 attendance will be considerably over the century
During the year a number of of changes mark. been made in the faculty at the college. fivision at the Connocticut Agricultural Colleg Storrs, Conn., has assumed the position or pre
 and Plant Pathologist for British Columbia, has assumed the positiun of Protessor of Zovogy and
Entomologist for the Provine on ona E.ntomologist. Trueman and Brittain are natives
Both Messrs.
O New
 Several further additions to the staff are con templatell, and will be announcod for the largest
 held from January 6th to 16th next. The new buildings erected during the past two years and
the increased facculty will make it possibl to carry on this Short Course much more efectivily
than ever before in the histoty of the institution. Applications are alreaay being receiven from those who purpose ateons made up as follows: Noval
at the
Scotia, 47 ; New Brunswick. 26 ; Prince Edward Island, 6 ; Newfoundland, $2 ;$ British
$1 ;$ United States, 2 ; Great Britain, 6.
Skipping Ontario, whose records were pre viously given, Manitoba Agricultural college is next in line President W. N. Black reports
at this Coliege there are registered this year in agriculture, 242 , and in home economer,
The attendance is increasing daily, and a number
 Columbia, 3 ; Saskatchewan.) 1 ; direct from the old Country, ${ }^{\text {B. }}$. As students in agricuture trown or villages, un-
the Manitoba Colleere from tow two summers on less they have spent at least two summers
arm, the entire attendance may be taken as comfarm, the entire attendance may omparatively few-
ing rom the farm in fact comper
perhaps not more than five per cent.
 Pror. Last year of about twenty-five per cent.
over the
The a aricultural college in connection with The agricultural college inn eonnocted at Saska-
University of Saskatchewan, loce in the certififate toon, reports the registration in conpleted. For
course in agriculture as not yet
 the certificate course about sixty in the frrst year
the second year and abo
and or probably one hurdisation last year was
agriculture.
sixty-four in the rifst year of the certificate course.
Alberta
has three agricultural schools where courses of study are put on
cultural deading in terres to to be obtained from the to be estabished. At the men will average about sichteen years of age, and practive, are from the with the exheption of the piris will average about
farms. The age
twenty years. The course in agriculture will extend over a period of five months, will be a two
hold science for this year. it wit
onth's course. month's course. There are no tuitiong ing. The
onlv expense being for books and lodging this
ond equipment in connection wivin a main building
y complete.
Besides
 of work pursued isk Manitoba Agricultural Uring the first two years.
The school at olds has
students enrolled,
The
 continue until March $\begin{aligned} & \text { constitut the Domestic Science } \\ & \text { months wwil } \\ & \text { Course, which begins January } 6 \text { bth. So far every }\end{aligned}$
Course, which begins January 6th.
student who has registered is from the farm.
No antempt is made to take students from the
 train the young man to go back on the farm Manitoba Agricultural Colleges, with a particular adaption to western conditions. It is plannad
that tow years will complet the course, and the
and There is another school at Vermilion operates on the same lines as those at olds and Clares-
holm. $W$ We also got the number of students in attendance, which ${ }^{\text {is }}$ twenty-one.
Just before going to press we received the port from Macdonald College. St. Anne De Belle have 123 students, in the school for teachers 169 and in houschold science 79 , making a total
of 371 . Of these 29 come from Quebec, 23 from Ontario, 16 from New Brunswick, 11 trom Nova
Scotia, seven from Prince Edward Island, three Scotia, seven from Prince Edward Island, thre
from Alberta, one from Newfoundland, four from
 Indies, two from
the United sitatas
These are the number of students actually en gaged in the study of agriculture in Canadd iust
now. They are all taking the regular courses and their numbers will be swelled greatly during
the winter by bhort courses in each college Not the winter by short courses in each colliege. Not
counting the Teachers and Domestic
Doiche counting there are then nearly 1,200 students
couking special arricultural training. Adding the
tate Domestic, Science and Te
over 1,600, a grand total

## Why Not Ontario?

Editor "The Farmer's Advocate":
Nothing of recent years has attracted wider Nothing of recent years has attracted wider
attention that the Tinited states Land Show, Whict was that instuted some five years ago by the
Chicago 'ribune, and is now in progress in the Chicago 'Tribune, and is now in progress in the
Coliseum, Chicago. coiliseum, chicaco. haco he an annual affair, and
This show has the Union having cheap lands every State in the Uuin having cineap
has large and very aattractive exhibits of agriculturali, products, whether it he fruit, vegetables,
yrain or alfalfa baty:
Railway companies musi
 ind them here year, arter year booming the
along these linines, including the C. P. R., along these lines. including the C. Pr. R.,
and C. N. R. Man Mave Canadian provir
and and emselves of this opportunity to display thei
Why not ontario ? wares and charms. Why not ontarn boast o and so little to say. We advertise the fact our government reports that the rat
tion is loess than it was some years ago. tion is less than it was some years ago very en
No man mows but the man with a ver quiring mind and has time to investigate
himself that ontario has any especial attraction, himself that ontario has any especiait to live in. Wo
or is a particularly desirable place

 Farmers make money here too
what kind of a noise one of the western states or Provintes would make if a farmer could sell
$\$ 12,000$ worth of crops from a 50 -acre farm in $\$ 12,000$ worth of cop single season. Yet these men can be found in
Yen A single and on land that can be bought for two
Ontario and
hndred dollars per acre, and I doubt it the fact hundred dollars per acre, and I doubt it it wact ac-
is known outside of the county where it was
 amp to make a little noise sometrmes-t
ablow their own horn" as it were. Why not blow their own
Ontario
On $\qquad$
Good Silage from Wilted Corn.
Editor "The Farmer's Advocate
I noticed your advice re wilting green cor
re given in due time to growers of corn for the sill We thought it was good advice, but we had ours not many that acted upon, as
pretty we mell mat it with the corn harvester, we stooked it (it mas in stook just as well when unbound. try when put into the silo. The sheaves were so shrunken as seem as though they had never been titht, as one man remarke. ing into the silo it did not settle much arter be ing put in. It is the best silage or think silo, but I am trying to plan a flat roof that I can re move when filling, as we have found some inconc
venience in flling silos with roors on. If succend in this I I. may let you know and get you
opinion on it. Cpinion on it.
Huron Co.,


All the Family Want It Please find enclosed $\$ 1.50$ for renewal of your valuable paper. It is appreciated th every ond
of the family, we can't be without it
tit
BAECHLER. Huron Co., ont.

Cold Weather Concrete Stable Floors

The chief disadvantage to the use of concrete on the farm, when the farmer does the work himbefl, is he has time to undertake construction of
ber any kind. Using proper protection concrete work need not cease with warm weather, although
such work as walks silos and other outside work such work as walks, silos and other outson completed in summer. Nevertheless, à stablo loor, for instance, can be put in in the late fall and even when the temperature is beow concete will be just as good as that aid in summer if the work is properly protected The writer knows of a farm, twelve malies from sranter with excellent results. In ordinary cool weather the protection need
ony be a covering of straw, manure, sawduast or only be a covering oh staw, mant, as the final set sand until the work has hart
is called, when the conere is safe. There are two distinct batcthes to bo made in this class of
eoncrete work-the rough, or lower part of the concrete work-the rough, or lower part of Ahe
concrete, and the top, or apper layer. Ald
And from a too lengthy review of the general strength
of concrete, the value of crushed stone and the different kinds of gravel, the easiest way for the inexpenien known as pit-run gravel, that is the gravel a sit is found in the gravel pit before
has been separated into the different classes. has been separated into the difirerent classese. A
little more cement is required, but this is better little more cement is required, sur ansing. Port-
than going to the expense, of sereenig than going to ot which there eare many brands is the only satisfactory cement to use. Thererore for a stable
gravel, cemert and cleare
cent gravel cemment is injurious to concrote work at thit
there is ilime is
ind time of year, because the lime holds the frost
the concrete crumbles.
The mixture sheuld be be the concrete crumbies.
about ife to one for rough and three to one tor the top. This is a rich mix, but it is bettor
to pay for the floor in the Arst place and not Ro pay for the flor in the firs. place and no
have to patch. "Five to one" means that for every bay of cement there is to be used five bags
of gravel. of course, this can be measured in a wheelbarrow. In coold, weather the concrete should In cool, or cold, weather be diffleult. when part of the stable is in use, but the things to eemember are to keep the cement dry and to
keep the concrete
from
freezing. is too cold will appear to set,", but it is a faleo
set and will crumble when it thaws. In laying set and will crumble when the haws. prepare the a concrete foor the frst ftipg in to the required
bed. This is done by fling intio the is hard. IB height and tramping the fill until it is hard.
the land is of clay, gravel is needed tor a drainthe land in of clay. gravel is needed for a drain-
age. Cinders are better, but they are not ot bo
had in the country. About three inches are
 is a drainage in itself. Gutter forms siou on the outside and kept apart by width boarda, which
are are knocked out as the concrete meets them. A
rounded form is hard to build, but a $V$-haped rounded form is hard to build, but a do-shapes
gutter is simple. It is better to build the forms the entire required length at once ir pose the Atter twenty-lour hours it is sale to remove the
Iorms.
Extensive
orm bullding is a complicated matter, but little trouble need be experienced in stable forms. The concrete the work
The actul mixing should be done on a board as nearly watertight as possible, The cement to to be
mixed dry into the gravel. Then, while two men re turning the batch, a third pours on the waier, a little at a time, until every part of the bitch too wet. Next the rough is deposited and ked to a rough level and thoroughly tramped. To do this an ordinary wooden pounder will answer, though iron is beter. It the toor is blg.

level pegs will be needed toep the whole at | Tevel The straightedge is laid across the pegs |
| :--- |
| to give the proper level. $\begin{array}{l}\text { In a mall } \\ \text { Ioor, thees }\end{array}$ |

 floor above to the secenso of the worr in the etapla
and to use the same measurement all over the and to use the same measurement ant loor, two by four lavid from
floor. In a small
lon side ot the tloor to the other will do away One side of the tloor to the other will do away
with level pegs. Three inches is enough for the rough and one and a hall inches tor the top
The top should be bo finer material than the rough, so as to give a good wearing surface and
to allow for a smooth finish. The top is o more to allow for a smooth inish. if cracks are to be prevented. is mixed in the same way as the
The top is is rough, but the rough has set; otherwise the con-
on beiore the crete will not knit together. As soon as a
batch of rough is off the board the top should be be batch of rough is off the board the top should be
started and by the time it is mixed the rough started and by the tiine it is mixed ine reaty ithe batch of rough has not been
Fill ber
too large. Enough water should be in the top too large. Enough water should be in the top
so that the mix will slowly pour from a pail.
The top is poured on and levelled with the The top is poured on and levelled with the
straightedge and left for s the initial set to take place. There should be a board placed at the limit of each batch to prevent the concrete from
spreading too far. This board also serves as a spreading too for. This board also serves as a
frost expansion joint if required. Expansion
 which arterwards are art he action of the changes in tem-
is to allow for the
perature on the concrete. II the top does
not perature on the concrete. If the top does no
dry fast enough a drier of one part cement pery fast enough a drier of one part cement
one part of gine sand should be sprinkled
Teating with the fingers is the simplest way one part of hne sand sers is the simplest way to
Teeting with the fing
tell whether concrete is ready to finish or not. ready the fingers will leave a decided mark, but will not sink in far
Proper finishing is a trade in itself, but a farmer can get a pretty fair finish if his is careful.
This work is done with a plasterer str trowel, although there are automatic trowels on the mar-
ket the writer has seen used to considerable advantage. The man doing the finishing kneels on board and rests his weight upon a floot. This This to remove the inequalities in the surface.
This done by "ironing." which is rubbing with This is done by "ironing," which is rubbing with
short,
muick
motion. a held lightly and is swung with full arm
swings, very lightly, so that the edge and a litswings, very lightly, so that the edge and a lit-
tilo of the flat only touch the neex surface. The
first sking of the trowel is to be the longest. gradually bring ting trewe work narrower so as to to
get rid of the water. The use of the float will get rid of the water. The use of the foat will
depend upon the condition of the surface. The depend upon the condition of the surfice. .The
marking of is done when the concrete is stile marking othis is to divide the work into blocks.
moist
The writer has found the easiest way to do this work is to have two men hold a tightly-drawn
inch rope and for a third to run along and pat it with the trowel. Finishing is work requiring
considerable experience, though a stable floor considerable experience,
need not be too smooth.
The next consideration is the protection fron frost. As soon as the finishing is complitet,
clean straw or manure is heaped upo the con-
crete to depth of about four inches. If any crete to a depth of about four inches. 1 If any
canvas sheets are near it makes a neater job to cover the concrete with these first before using the sand or manure. Care should be taken to usage will iniure the concrete. In ordinary cold weather this is all the protection necessary, because the fact that the work is inside is in it when the work is delayed until the temperature is below freezing. It is difficult to protect outside work at this temperature, but inside work is pe material must be heated. The simplest way for the farmer to do this is to build a. fire of saw logs, as close to the jos as is safe, and to leave a
gravel.
Heap the gravel nearly level with the tops of the logs. There may be several ways to
heat the water near the stable; the chief thing is to heat it. It iss't necessary for the material
to be roasting hot, but it must be reasonably warm. There are many other ways of heating material, but the quickest way for the inexperienced man is usualle thery cold weather, if it is possible, it is well to have some means of keeping the inset, such as cans of hot coals. In the majority cases this is, of course, out of the question. Should the work not be completed at the end
the first day, the end of the last day's work with a on operations boing resume a proper bond with a pick so as to provide for a proper bond
between the old and the new concrete. Washing the old concrete is not necessary for this class of
works
Horses should not be taken over concrete work. Horses should not be taken over concrete
until forty-ight hours have elapsed. If this until forty-eight hours have elapsed. If this
can't be avoided boards should be placed for the horses to walk upon.
In buying cement it is well to observe that the ement has been properly stored, 1 , iled near is nom lamp ; that it is also well to tiled new near some the of
dame
the cement. but usually the dealer's word has of the cement, but usually the dealer's word has to
be taken for this.
Cement that is very old has be taken for this. Cemment that is very old har
lost much of its strength. These precautions ar well to be obsereve by the farmer at all thimese
even after he has the cement on hand but partieven after he has the cement on hand, but parti-
cularly to keep the cement dry. Cement should cularly to kep the cement dry. Cement should
always be piled on poles under cover and should alwass be kept away from the walls. The idea
of the covering is not only of the covering is not only for a protection from
damp, but from air as well, because air affects damp, but from air as well, because air affects.
cement. Concrete construction has taken a wonderful
place in the industrial world and it is rapidly
cace comino into general use throughout the fapming
district districts ass a recognized building material. Coir
crete construction is lacting, smatitary and for

ploy concrete, not only as a present means his farm. Co Adjunct to the future value York Co., Ontario.

Chas. L. PITTS. Note,-WV would not advise attompting to do
concrete work in too cold weether but there aro many good points tor the beginer in cement
work in this many good points for the beginer in
work in this article.-Editor.

## THE DAIRY.

Milk Prices in Oxford Co., Ont. $T$ Twenty-five years ago the local cheese factory was the only place where the farmer could dispose of his milk, and when cheose was only selling at from eight to ten cents a pound the returns were not very large, loften ranging from 70 to 80 cents per hundred pounds. But of late years the situation has changed very much. The
condensing factory in Ingersoll has been taking large quantities of milk from the cheess factories in fact one or two factories have been closed altogether. And Toronto milk and cream whote sele men have been getting considerable cream and a little milk from$\$ 1.60$ per hundred, and the Toronto people about the same. A few farmers have been shipping milk to Windsor and after expenses are paid they are netting about $\$ 2.00$ per hundred pounds. Of and as the milk is not distributed to the consumers untir the day forlowing that on which it is taken from the cows and not used until the
third day, it will be understood that extra care

Homestead Colantha Prince Canary Champion Holstein bull at the New National Show.
must be taken in cooling and handling or it would not be fit to use. The patrons of our
cheese factories got about $\$ 1.12$ per hundred for cheese factories got about this may at first sight
the October milk. Now, look small compared to $\$ 1.60$ or $\$ 2.00$, but we must remember that the most of our patrons
realize as much, if not more, from the sale of realize as much, il not more, rik. some of our $0-$ acre farmers get from $\$ 500$ to $\$ 800$, and
ane even more, from the cheese factory, and they, asen a rule, make more than that from their pigs fed on the whey returned from the factory. of course the pigs require considerable grann would not renize half the amount that the pigs bring, and then besides, there is the manure that he pigs make, which is certainly worth a great
Farmers who send to the condenser gendeali drop out of pigs entirely, as they con-
erally drop
dither sider that without whey or separated milk pigs
are not proftable stock. It is the farner's are not profitable stock. It is the farmer's pri-
vilege to sell his milk wherever he can make the most money, but it is wisdom to look at every side of the question and figure out all the items
before deciding which is the most profitable way before deciding which sithe most prontabe way has been a great boon to the farmers of oxford County in the past in fact it was the making
of the farming industry, and we should not of the farming industry, and we should not
despise it now, and we ought to foel a little despise hy for the cheesemakers who have invest cd, in many cases all their money in the choese
factory, but times changr and we have got to Tactory
change with them
Oxford Co., Ontario.




## Preserve the Butter Industry

## Canadian

 interests of the consuming pubic will be well advised to be on their guard weakè any attempts, direct or thsidious, egislation insuring honest product今 upon which the industry so lar yely rests, As stated in lastmeek's "Farmer's Advocate," what is known as week's "Farmer's Advocate," what is known as
"filled cheese". has been kept out of Canada, and the manuacacture, importation and offering, sell
ing or having in possession for sale of any oleoing or having in possession for sabe of any oleo-
margarine, butterine or other substitute for butter manufactured wholly or in part from any fat
ter
other thin that of milk or cream is prohibited. other than that of milk or cream is prohibited. For various reasons cheesemaking, especialy yor
export, is not making the progress in Canada that tit once did, but milk, cream and butter production is making a large and gratifying ad-
vance. Manufacture of butter for home consumption is increasing and a very considerable export trade to Newfoundland has developed. In the United States, oleo and bogus butter pro
ducts are entrenched, backed by the big meat in ducts are entrenched, backed by the big meat in
terests, which have been almost suffciently pow terests, which have been almost sufficiently pow-
erful to throttle e the Govermment itself and keepp dairy farming involved in ${ }^{\circ}$ a constant struggle
The self same or similar interests, allied
with The self same or similar interests, alilied with
others in "the trade," may desire a foothold for imitation products in Canada under the specious
plea that the people would be benefited by hau plea that the people would be benefitted by hav
ing access to cheaper foods, but really to enrie ing access to cheaper oods, but realy to ennic
themselves. In order to lull the farmer the pre tence is nade that it might further advance the price of cattle and hogs, the packing-house fats,
scraps and leavings of which largely enter into scraps and leavings ol which argely enter into to the town consumer would be to relieve him perhaps of paying a few cents extra for honest
butter and then more than take it out of him in butter and then more than take it out, of him in
the price of meats and lard, $a$ game that would play into the could
of the "big cinters
of tion ests", at both enter.
The industrial clases. and the Canadian pubhe generally have
no need nor desire to be dragged down to foreign food standhas been found that rigidly and strictly enfurced regulations
 wounds. In Canada it would also mean
the employnnent of
an army of salaried an army of salaried
officers to keep the manufacture and sale
of such products un-
der their own name. der their own name.
and the history of
ane traffic olsewhere shows that it could
only be partially suc only be partially suc-
cessful. Incidentally, the public, or the
vas majority of them, would be deceived.
The whole history of the oleo business has been fraught with deception and fraud. In com-
pounding oleomargarine, different manufacturers pounding oleomargarine, different manufacturers use different materials and there are a number S .
brands, some of which, in payment of a U. S .
inland revenue tax, are colored to look like but inland revenue tax, are colored to look like but-
ter. "The Farmer's Advocate has examined oleo wrappers which, presumably, were technically printed in accordance with Government regulations, yet when put upon the package on the
store counter the true designation would be in very fine though long enough letters, while in iull view of the customer would be perhaps
in vory
plain
plach
type,
word as
leading "Jim to im in very phain type,
agine he was getting Jersey butter. Oleo usual-
ly contains oleo oil (made from the intestinal ly contains oleo oil (made from the intestinal
 mal products, according to the particular formula used, with the object of making a compound
that would vield the most profit on the mula used, with the ohject or mafing a comp:ma-
that would vield the most profit on the ma-
terials and labor involved, The pretext :that oleo is the "poor man's butter" will not oleo is the "poor man's hutter will not
lead legislators in Canada into the dangerous
experiment of tampering with one of the foundaexperiment of tampering with one of the founda-
tion agricultural interests of the country. After tion agricultural interests of the country. After
many years of strenuusus and costly endeavor by
producers and Government agencies a sound and producers and Government agencies a sound and
only reasonably remunerative industry (with only reasonably remunerative industry (waith
prices not burdensome) has been developed, and
it would be little short of criminal by the ad-
vent of bogus products to throw it into conorly reasonably remunerative industry (iwith
prices not burdensome) has been developen, and
it would be little short of criminal by the ad-
vent of hogus products to throw it into con-
fusion and jeopardize its existence.
. Wm. Watson — fu

Buying and Selling Dairy Cows. Editor "The Farmer st and mandenance of a
 has a m
that co
business
Though one may have to search far for the
ind of a cow he wants, it will pay him to do soo and especially is this true if he intends
retain her for $a$ brecder.
Every cow that is

purchased ho idea of using her for a breeder.
ed with the
There are two general places in which cows There are two general places in which cows
can be purchased. on the farms and in the city
The farms have the advantage in can be purccase. The farms have the advantage in
stock yards
that something may be know of the cows purthased. A cow found in the stock yards is un-
chars. suspicion of having reactedt ot the tuberulin
deest, though the suspicion may be without foundeation. But it is best to be on the safest side
and those reall interested in the inproving o
andir hed will do well to go out and hunt for their herds will dan
the cows they wan
Stili, it should be borne in mind that tuber-
mulosis is present in many rural localities, and culosis is present in many rural localities, and
spme of the affected herds are losing individual
 the farm, the chances of obtainng animals afeect-
ted with tuberculosis are ont nearly so groat as as in getting them aty to send their cows to ma
 ence of the disease. In buying convs, etterfore
the farm or at the stock yards it it its, therofer
to a wise measure of protection to have every cow
tested with tuberculin before the payment of the cost money is made. In the purchase of cows for the dairy, it is
is
 eal ainity of the cow to produce milk wollowing maniested
that age the cow will produce her maximum yield
of milk, and will produce the strongest and best
俍
 out what kind of bulls have heen generally used
in the difierent ocalitites Where dairy bulls
have been extensivelv used, one will hunt with have best success for dairy cows of value.
the under-
The inexperienced dairyman when
very oten deceived.
He takes to buy cows, it very deren in the trans-
has, in many cases, to pay deary in artion. This may be in paying overvalue
usetul cow, or, what is more expensive still,


 think that the largest, finest-1ooking often untrue
the best to buy, but this is more of
 cauce the rargest and handsomest-10oking oo one
dhey may be tempting to purchase, but no
They men metecting should let this be an dairy purposes. Quality
good milk producers for diant
and quantity of milk are the most mestial desire in these respects her lonks do not amoun to much, provided she is in hood health and hate
too oid. Cows havina a handsome aporance
those possessed of the nay be desirable, cut ent inse are often unatrac-
greatest milking capabilities

 It is not an easy mater a good deal, but
and when found they cost a the price unless it nd when found they cost at prie unless it is
one should stand baxco on the pricil be well re-
out or freason, for the purchaser will
The scrub cow

 tained and bred to pure-bred dairy bulls.
first calves from such cows will be one-halt pure,
and, gradually, by the persistent and succossive Irst calves from such cows will be one-halt pure,
nd gradually. by the persistent and
ase of ofessive
sse such sires, the original native blood will be so diluted hy pure blood that the
animals will be practically pure-bred.
 incessary hine that teast expense amount of or work
bier that
teat
astes tuel in making steam certainly wrill
not

 In the purchase of a cow for dairy purposes the
same idea should be kept in mind. The cow
 new product which ishould be protitable. Milk, is
the product. and it it it isnt srfifient in quantity
the and rich enough in quality to pay for the food
eateo lyy the animal and the work of milking and caring for her, she proves a loss instead of a
crofit. The scrub cow that bellows loud and eats hrartily is like the engine that wastes fuelmakes lots on noise and rattile, consumes heaps
of fuel and nakeses little "steam ,", UNERWOOD.
W.

## THE APIARY

## Beekeepers Discuss Co-operation

 Co-operation was the dominant note of theannual convention of the Ontario Beekeepers As annual convention of the
sociation, which met in
Toronto The attendance , nearly 300 , was the largest on
record. The three days' proceadings were re
 The secretarj's and other reports showed the assoiiation to be flourishing. In three years the
anembership has increased rom thes than 60 to

 have found considerable dificicult.
good marke tor their surpluse say morning, after
the opening routine business had been conducted, the meeting was thrown open for discussion on
co-operation. Before the convention met the co-operation. Before the convention beretary on
memmers had been notified by the secret.
the proposed plans and were asked to have theit the proposed ph
opinions ready
opinions ready.
The first matter brought up was the co-pera The first mater hroung A number of the
tive buying oi hone tinn. in
ounty secretaries outined the work as carried
 on in their respective dout the same. The asso
pluns followed were about
ciations got wholesale rates from the can manucians ions got wholesale rates frout the can
facturers. The orders of the mere
thene then usually sent to the secretary, who then the company. The separate shipments were the sem
was billed separately
 Thene style of trade was discussed. The litho-
 They are much more att
The two and one-half and fill
popular with the conand
popular with the consumer
Tuesday evening a special session was called for the discussion of the coo-operative selling on
honey. There is a steadily-growing market in honey
the West and to supply it properly more thor-


 associations. ench require about $\$ 500$ capital,
tions ound ond
which would be borrowed from the members at six per cent. The members would bind themselves to marThe a members would proption of their crop through
 standard and put up association. Each lo-
cided upon by the central
notily the central of the cal society would notily the centraa and the amount of honey the selling. This reerrs stend
central would do then
Each local would altond to the general market.
to its own local market. fixed charge would be made by the central for selling and any sur plus would be the amount of honey they contri-
proportion to proper. The capital roquired by the central wourd
buted. be subscribed be discussion, the meeting decided that some such system of co-operation was adhist some and passed a resolution that the
visable and
 Irena, spoke on the duties of a director the demondo much for his district by diseseminating the in-
strations and meetings and dise his fellow bee iormation thus otheined among his hellow iee
keepers. By furthering the interest of the as
Bis keepers.
sociation, he benefts the individual
concerrading in inson
problem was led by H. G. Sibbald, Claude. I would be impossible to bring out in a report of
this kind all the points mentioned. The same his kind all the points mentioned. The same
holds true to the other discussions and addresses holds true to the other discussions and addresses,
The main points in swarm control, however, are In the spring to give the bees as much room as
possible to raise brood in the brood nest and to possible to raise brood in the brood nest and
nduce them to keep honey out of the brood ncst
$y$ putting the super in early. Any honey in the y putting the super in early. Any honey in the the honey capping protrudes slightly, by shoving
the combs close together the bees are induced to en combs close together the bees are induced to nd thus give more room for brood. The colcells kept cut out. As the season advances, the iven myst be enlarged and more ventilation hirds full, another should be given. A good general rule is to know the condi.
colony and keep ahead of the bees.

$$
\begin{aligned}
& \text { The Thursday session ope McKinnon, St. Eu- } \\
& \text { on Queen Rearing by J. A. McKin rearing yellow } \\
& \text { gene. For profit he believes in res }
\end{aligned}
$$ gene. For profit he believes in rearing yellow.

bees. The longevity of bees is also important. M... McKinnon tested the longevity of different
strains of yellow bees by placing a frame of each strains of yellow bees by placing a frame of each
in a hive of blacks in the fall of the year. By in a hive of blacks in the fall of the yoar,
next June the most of them had disappeared,
but some held on till July. From this latter but some held on till July. From this latter
strain he bred his queens. A queen whose
daughters vary in color should not be bred from. strain he bred his queens. A queen whom
daughters vary in color should not be bred from.
There is a vast difference, too, in the working daughters vary
There is a vast difference, too, in the working
abilities of different colonies and the best workabilities of different colonies and tele for breeding. swarming
ers should be seleted for is also undoubteclly hereditary. It is well to
let the weakert colonies raise the new queens and let the weakerl colonies raise the new queens and
lellow the stronger ones to harvest the crop. allow the stronger ones to harvest the con to Various methods of introducing the new quen alde
the hive were discussed. The Mriller, or smoke method, is one which is being largely adopted
The bees are given a little smoke, the queen is allowed to run into the entrance, the entrance losed for a few minutes, then opened and the bees are quitting work, is the
S. D. House, a visitor from Cornellius, N. Y., brought out an interesting point, which was, not oemedde with Another good method is to place the queen in a wire-cloth cage in the hive, leave
ther in the cage and then liberate her. At the afternoon session addresses were delivered by Dr. G. C. Creelman, of the Ontario AgriIn sural Colilege, and E. R. Root, Heaing of the work which the O. A. O. is doing, Dr. Creelman credited its success to the
quality of the farming community of Ontario. quality of the farming communtyon in crop production which Ontario has undergone, and also
the way in which the college is furthering the the way in which the college is furt agricultural and beekeeping interests. experlment
Mr. Root told of an interesting
which he is now conducting. He is sending 800 which he is now conducting. He is sending 900
colonies of bees to Floride for the winter. His colonies of bees to Floride for the winter. His
capital, as he terms them, will thus be working nearly the whole year round, instead of five or
six months only. He will save the expense of neariy the whole He will save the expense of
six minths only. He
winter feeding and at the same time hopes to winter feeding and at the same time hopes to
double the number of colonies. There are no
doubt many dificulties in the way, and Mr. double the number ondies in the way, and Mr
doubt many dificulties
Root's experinfent will be tollowed with interest Several resolutions were passed by the conA message of condolence ${ }^{2}$ ontario's best-
of the late $W \mathrm{~m}$. MacEvoy, one of Ont known beekeepers, and the originator or the
well-known MacEvoy treatment for foul breed. $\Lambda$ well-known MacEvoy treatment for our treed. $\mathbf{N}$
resolution to the Department at Toronto, asking
that all spraying of fruit trees be prohibited while in spoom, and that the penalty beon a mini-
that an endeavor be made by the association to obtain
perfect honey pail. That the Departincnt at perfect honey pail. That the Departincht at tricts for foul-brood inspection and that more

$$
\begin{aligned}
& \text { nicipality. } \\
& \text { The last-mentioned resolution was passed af- } \\
& \text { ter considerable thought and discussion. It was }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The last-mentioned redion wased as and } \\
& \text { ter considerable though and discussion. It and } \\
& \text { felt that the present system is inadequate. By }
\end{aligned}
$$ felt that the present system is inadequate. By

appointing local men, more inspectors could be appointing local men, more inspecturs could
obtained for the same money, as traveling exobtained for the same money, as traveling ex-
penses would be reduced. Another strongly-felt
need was better inspection of bees that are 1 m need was better inspection of bees that are im-
ported. Large numbers of bees are coming into
Lat ported. Large numbers of bees are coming into
the country, which are liable to be diseased, and
little or no inspecting is done.
 urer, Morley Pettit, O.A. C., Guelph; directors,
the above named officers. and the following : $R$.

 Thamesford; Jacob Haberer, Zurich; Miss E. Rob
inson.
s orวiw irny

## HORTICULTURE.

Healthy Seed Potatoes.
Not only do unhealthy tubers decrease the
vield of potatoes, but they may start an epidemic in the field chat whe the weather is favo
 alone has reported a loss of $\$ 10,000,000$ in one year due to the ravages of late blight, while in
the United States the toll of this disease has amounted to $\$ 36,000,000$ in one season's crop. Had the loss in Canada during the summer of 1912 been estimated its enormity would have
been appalling. Much of this waste can, how been, appaling. Much of this waste can, how
ever, eprevented by planting healthy tubers and
and spraying with Bordeaux mixture.
Most growers know the peculiar odor emanat ing from a field of potatoes atfected with late
blight and can easily discern the wilted, spong bright and can easiy discern the wilted, spongy
condition of the leaf, but as a preventive measure. it is more important still to be able to Identify the disease in the tuber itself, for ther the spring. The affected tuber shows a surface slightlyy depressed, while the healthy, white colo of the fesh is changed to a dirty brown. If th soll is dry, dry rot results, but if wet the tube
decays and becomes a slimy, offensive smelling mass. The disease continues, ofter they are put into storage, and those showing only a slight
discoloration in the field may later be entirely diestroyed.
Bordeaux mixture sprayed on to the plant during July and August will prevent the develo men the spring that show $n$ signs of an unhealth coler and thus forestall the introduction ioto th fileld of the disease to await, orly favorable climatic cenditions for a hasty development.
others, and amongst the resistant kinds may mentioned Carmen No. 3, Rural New Yorker Rural Blush, Green Mountain, Delaware and
White Beauty.
No variety is altogether immund White Beauty, No variety is altogether immuane
from the disease, and unless precautions are taken, any kind is liable to fall a victim to the
bilight and rot, but if healthy seed is planted blight and rot, but if healthy seed is planted much can be done to allay destruction from this disease.

Valuable Premiums Offered full page announcement on page 2121 in this Iut Page announcement on page 2121 in this
Issue of $a$ series of splendid premiums. which
and present subscribers may secure by obtaining new
subscribers to 'The Farmer's Advocate and subscribers to ""The Farmer's Advocate and
Home Magazine." The articles are all extra good value, and readers will be pleased to reecive
such excellent remuneration for the little time re such excellent remuneration for the ittle time re
quired to obtain the necossary number of new quired to obtain the necessary
subscribers.
See page 2121 .

Growing Canning Tomatoes. Since the advent of the canning factory there has grown up an industry of vast importance to the country and profit to the farme and proximity o the receiving station. Distance, hotever, ne mile of poor roads will often determine whe her a farm may be devoca toxtensive crop ping or be obliged to resort to a system or certain extent overcome. What distance will launch a farm outside the peandent largely proftable canning-crop production is de and facilities for handling the output, but, as a general thing, any distance beyond four miles orm the factory Dealing
Deacing particularly with tomatoes, which are character of of oil the foes not far factor as amption, the ash is Eenerally believed. A sandy loam containing soil, well drained, is desirable, but with the proper management a great variety of soils may oe brought into use for the production of toma
toes. A. McCue and W . C. Pelton, of the Delaware Experiment Station, have just com pleted an exhaustive work on tomato growing
which says: "The tomato needs a large quantity which says: "The tomato needs a large quantity
of ready available plant food during tihe for part of the growing season and a soill conditio that will keep the plants well supplied with
moisture, especially during the latter part of the moisture, especially during the latter part of the Some prefer to have a crop of clover precede
the tomato crop but in this case often the plants the tomato crop, but in this casee often the plant oemain green by intensive spring cultivation may be proper fertilizers. Clover, corn, tomatoes an grain make a good rotation for the tomato field results. heavily drawn on by the crop, but nitrogen is ed. A ten-ton crop of tomatoes, according to Voorhees, will contain 25 pounds of nitrogen 13.6 pounds of phosphoric acid and 51.6 pound of potash. This may be returned to the soil in
500 pounds of a fertilizer testing 5 per cent trogen, $2 \frac{1}{4}$ per cent. phosphoric acid and 11.32 per cent. potash; or in 156 pounds nitrate o soda, 100 pounds superphosphate and 100 pound
muriate of potash Ariar grower should aim at producing 400 bushels per acre, but often this is not obtained, while in
some cases it it may he exceeded some cases it may bee exceeded. With this pro-
duction, it has been estimated in Prince Edward County, Ontario, that operations per acre will
 rent of land, commercial fertilizer, cost of plants
and all the labor connected with preparing the land and growing the crop. Ath preparng the turtion
increases, so will the cost of groxing and har-

Vesting. Setting four foet by four feet 2,722
plants per acre are reauired, and the character plants per acre are required, and the character extent of 100 bushels per acre. The past season has shown blight on weak plants, while entirely free. Too large plants are not desirentirely, The heavy crops come from medium-sized
able plants, rugged and strong. A factor in crop production is the orich section of seed will never dapt a strain or variety to any particular secion. Maturity has been hastened from a week orly matired on prolific plants. It this sugreal ion be followed annually the yield may be inreased and maturity hastened. The variety rests largely with the factory. They desire The grower looks for yield, in which the rough
Thooth rut and matan varieties often exceed the smooth, so a compromise must be arrived at. A report from the state of Delaware has the stone variety men-
ioned 235 times, the Paragon 114 times and the Matchless 86 times. The Stone is a good ielder and a good canning tomato, but it is
rather late and often caught by frost in canning districts can choose from the following kinds with considerable saifty : Ignotum, Matchless, Worden, Greater Baltimore, Perfection,
uccess and Earliana. Chalks Jewel is a tood kind, but runs off in size, while the Earliana often runs off in quality of yield after the first pickings.
Success in tomato production depends on culvation and plants. Climatic conditions often
interfere, but healthy plants will ward off attecks of disease and inclenment weather. Too much plant cannot be laid on securing the proper

Storing Winter Vegetables,
This season of the year sees the vegetables nd fruit all housed for the winter but the ques tion often arises, how are they best preserved? resh and wholesome but the cellar or product is more convenient during the winter. Potatoes, vegetaniss, should be allowed some entuation, and a German pabication gives The practice has not yet become a custom in canaaa, but might be worthy of a trial where is to spread them them is being stored. The idea fords ventilation, but it is still further though that some of the sulphur always present in coko sulphur which result permeate the carson and oes and to a certain extent retard sprouting When out in bins, a slatted floor, elevating the to the potatoes. They should verature varying from 33 to 35 degrees and in the absence of light. The direct rays of the su


The Best 300 -box Apple Exhibit in the Horticulturrl Department of the New National Exhibition
 amanees their value, vut tor thaid be. prevented. The bin noould not
 bo vor ilveril ventilated.
coil and will cool and wall ventivea. mitrillst ripe if dut when still growing thit rots will int spout so wadly and have a better tex-


 cont storirg cabbageg suceesstully they giould b kept colld and woist and ineeres are harvosted to Hermor teoping theo should never be heaided to fimmy but should be just a triifo bort thares

 laser of ofand which partially coorers them
reafin their moisture and not get too wet.

## POULTRY

An abundance of green feed is one of the roads to success this winter.
Prices at this season emphasize the old 'adage,
"The hen that lays is the hen that pays."
Select for next year's breeding for layers
male bird from a heavy-laying strain of hens. Do not forget that the hens need drink in win
ter. Give them sour milk if possible.

Class the pen in which the hens are kept as
"stable" when doing the daily stable cleaning. Old hens and all cockerels not needed for
and breeding should be se
they can be fattened.

Winter Feeding of Laying Hens. With eggs so scarce and high in price and go With eggs so keeper is naturally much concerned a about tead
ling the flock in the hest manner poossiblo to pro uce most eggs. Resides, feeds are costried ad or by injudicious mixixng. The poultry durin the summer monnh, and where good summuer feedhas had iree range and where good sudition to
ng has been practiced has had in mixed grain ne green food, a liberal amount of mixed grain,
Many farms are not equipped with 4 pecially good poultry houses and as a consequence hens
are often closely confined during the winter gore ofoten closelyse confined during the winter
aronths in smali, dark, dratty and unsanitury
mon months in suall, dark, drafy and and places, where it,
the best of feed, to get good results. However, matters may be improved if proper feeding 18
done
Hrom ohservations made, we think we done. From observations made, whe think wo
can safely say thet the mistake which most farmer noult ryvun make is too much of a sameness
in the diet of the hens. Many feed mixad graln
and
 a time. This practice is continued day the ration.
out the winter, giving no variety' to nh the com-
 monest fords are best, to be sed
on the farm. of the whole erains, whent, corn,
of on the farm. Ot the whats are good, providing
buck wheat, barley and or
they are fed in a mixture of two or three, or where all are grown perhaps all might of shor
It is well to have a liberal supply It is well to have a liberial supph the morn
litter on the floor of the pen in which ing feed of these whole, prains is scattered and
 greater part of the forenoon, which gives the ex
ercise so necessary to nealth and egg production At noon is a qood time to feed some green teage
Most farms have a few mangels or cabbare Most farms have a few mangels or poultr
These make teed greatly relished by the pose and othe These make teed greaty reo the grass ard oth
and helpe to take the pliace of
green teed whiclu they have had access to. in th green feed which they have had access to in in th
summer. If possible give the hens sour oill o summer. If possible give the heas is iable on the
buttermik to drink. This is arma and can greater porticn of Canadian farms and can suplief at very little cost. It takes the place
of beef scrap or other forms of meat diet. It is is
well also to keep a hoper of rolled oats in the

 grain ration. It it well to pay particular at-
tention to the green feeds. Hens eat \& greater The he
amount of grass and other such material during
the summer hhan most people suppose.
not being anese not being available in the winter, it is naturally
necessary to give the poultry something to take necessary to give the poultry something to thate
their rlice. oume idea of the value 1 green
food is food is apparent from the d itference between summer and winter-egg production, which is in part
due to the differnce in amounts of green food due to the difference in amounts of green foon
available. We have mentioned cabbage and mangels as being good. Turnips, rape, clover hay or clover or alifilfa leaves are also first class.
Where the
 rould not avise feding rape too extensively. Frozen cabbage should never be fed. Mangels
must also be carefully fed or there is danger of scouring the corvis. It is sometimes necessary where these are being fed to only give them twic palatable as mangels. When hens get used to them they will eat quite a few. The clove leaves may be fed either steamed or dry and fift bushel daily. This is a form of food which cheap and easily procurable on most stock farm where clover is growr for
The old methods, so commmon, of the first thing
in the morning throwing down on the bare floor or ground, as the case may be whole grain or a
paiful of atas or barley, letting the hens shift pailiul of oots or barley, letting the hens shift
for themselves for the remeinder to their required
food, and compelling them to get what drink

 goodlaying strain and take pains with their
housing and feeding and share in the profits be goodrayng ateding and share in the profts be-
housing an froen the' high price of stricty-fresh
ing made ing made from the high price of strictiy-reses
eggs on our markets from early October until
well on towards spring.

## FARM BULLETIN.

## Good Roads.

I am billed to make a speech to-night on the I am billed to make a speech to-night on the
Good Roads Question, but I am not going. to make it. It is $a$ dark night, and the roads are
sc bad that I do not care to undertake a long drive over them. There is a moral in that situ-
tion that you can work out for yourself. But the bad roads are not entirely to hlame for my
th the first place I absence from the meeting. In the first-place did not ppech making is not in my line. I have not yet learned to think on my feec, and every sew minutes 1 an ambitious sentence, and haven' the faintest idea where or how I am going to ond it. When I have anything to say on ${ }^{\text {a }}$ public question I prefer saving it with my type
writec, and as practically all the farmers who are at that meating to-night are subscribers my views
Farmer's Advocater, I can pive them my Farmer's Advocate'ting an article than il I were to go and stand and st

The question of good roads has been of inter-
est to me ever since we came to the country Before leaving the city I accepted an assignmen from a leading paper to conduct a roads campaign. contribute articles to the news columns. By way of preparation I inter-
colewed A. W. Campbell, who, at that time, had viewed A. W. Campbell, who, at the good roads movement for the Oncharge of the good. From him I learned all the
tario Government. arguments in faver of statistics and files of the leading goodmass of strnls published in various parts of the world. After reading and digesting this mass of material, I opened the campaign with aod roadd Then I attended a good-roans convention the sub onto and listened to much wept on pouring in ject. For some weeks $\begin{aligned} & \text { eager, argumentative editorials and trying to ge } \\ & \text { no }\end{aligned}$ some response from the pubric, icer dealt with stirred a leaf hat seemed of so little interest to a question in general. While this was all going on we moved to the country where was the matter are, and campaign. Every one I talked with agreed that wo should have good roads, but nothing was being done. Arter keeping wrote to the editor and gave up my assignment. I coun not see that I was accomplishing anything was likely to Since then I have been trying in
was the use? one way or another to find movement in the counter with the good
try, and I have hit
worth mentioning.

In attacking the good-roads problem in the At the botto of the whole trouble is the country, the first thing that needs to be done i
carcity of labor. When farmers are not able to hardly expect then to do mach work on the oads. Work; like charity, begins at home, and most men have more to do at home than they
 ing. A man may be entirely convinced that betas for the country, but. if he has to put of building a silo or putting a cement foundation
under his barn because he cannot quite afford these improvements, he is not likely to be eager
to contrinute money for the roads. It is quita to contribute money for the roads. mi is qu.
natural that a man should want to make all
necessary improvements on his farm before doin much on the approaches to it. Up to the pres ent I have not met anyone who has denied that good roads would be valuahle, but they are no
ready to make a start. And now the question has been very much complicated by the great increase in automobile traftic. All the fairly goo biles that the farmers can hardly use them. him told that during the summer. months an autominutes during the daytime. As many of these machines travel at a recklessly high rate of
speed, they not only frighten the in teaming produce to the, markets, but wear out the road and cover the nearby vegetation with a
destructive coating of dust. The lestructive coating of dust. The farmers livin tic about making improvements that will be almost entirely for the beneft. of the automoblle
public. Instead, they feel that they should be public. Instean, they feel that, they should be
awarded damages for the injury that is being
done to their business and their crops. Of course the automobile has come to stay, but it has not yet been determined how to make the of the roads, and theme way shast be found of of the roans, and soma nuisance to the forming
making them less, of a
community than they are at present. Many
and times during the summer 1 spe automobiles pass ing on the road at a his trains on the rallway.
is made by the express
It is not at all surprising that horsee are friyhtened by these runaway locomotives. I free self when $I$ see one of those speed demons ap
proaching, and if there is a lane handy $I$ neve fail to turn to get out of the way, After an
experience of that kind $T$ do not foel moved to sit down and write a. vigut.
the good-roads movement.

## But we must have good roads. The progress

 economy of marketing produce, good roads are indispensible. It seems to me, however, that a beginning should be made with a lew of the more pressing aspects of the problem. In the Arst pace the automobile notisance the damage is doneunder control. As mos of by cars that go touring through the country, it
strikes mo that evory county might do well to strikes mo that every county might do wel to
establish toll gates at important points, suah as estabish over rivers, so that these transtonts
bridges ore . We
could be made to contributie their due share. Wo could be made to contribute their due share. We
have little diffculty with the locally owned autohave little dine people in the smaller towns who
moviles. The
have cars are forced to show ordinary courteyy when on the road near home, for we all know them and can make things hot for them if they frighten our horses into trying to chmm of thelip
poles. circle of acquaintanceship they scorch just ae
hadly as anyone else hut that, does not concern us. If toil grates were established and anti-
speeding laws ricidy entorced we might be able speeding lawg with the automobiles, though 1 am afraid it will he some time
gard them with affection.

Another opportunity for improvement is to be found in the streets of the country towns, where many cases. these streets are in a much worse condition than the country roads, and many a farmer naking a haul of several mitews that the to take a small load, because he knows that bo bat that he can hardly get over it. 1n this vicinity we have examples of both sinds of village streets. ne village is on a country road made kind of weather. Other villages have gravel streets that urder heavy traffic in wet weather become quag-
nuires. From what I have been able to learn, the rires. From what have been abso road have
stores in the village with the stone roas found a constant increase of business since the
road was built, while the merchants and citizens road was built, while the the poor streets are
of the villages with the pord qetting more bilious and despondent every day. It strikes me that one of the wisest movaments
we could have would be for the perfection of the we could have would be for towns. They usually give out long before
(o get penple to take statuta labor seriously int
 to cut weeds. ope once I put in two daye of statute
tabor by eutting weeds and thistles for threo labor hy eutting weeds and thistles for threo
hours, and I didnn't work hard either. A. W. Campbell told me that if all the statute labor in the country were done away with, and the poo-
ple were taxed a dollar a day for the time they ple were taxed a dollar a day for the thime they
are urunuly supposed to serve, and if the money
so collected so colliected were wisely expended, we could have
kood roads throukh Ontario in a very few years. Kond roads throumh ontario in a very feow years.
The conclusion I have arrived at is that more The bo conclusion the the the arrived at is that more Trobsing satisfactorially by regulatitinememe auto mobilo traffic, improving village streets, and ap
prochens to the railway stations, and by putting proaches to the railwav stations, end by put thing
Steam into the work of oing statute labor, than
in any other way.
Atter these things have beon in any other way. After these things have been
attended to we would be in $\Omega$ proper position to
 linee, and nll the great roan-making enterprises
thet ane now being advocated, laggely by the
and

Progress in Essex County.
editor "The Farmer's Advocate": of news fron
The reason for non-appearance of the Western Poninsula during the past few months was not lack of material, but owing rather to the abundance thereof and the inability of the
writer to dotermine what ought to be entered or olimininated. The era of prosperity he nored od its finality, but still continues to advance With steady march. With few exceptions every ine of husbandry has given ample returns and
fn certain cases romunerations unexpected and unprocedeanted have been realized. While there ar a number who complain and find fault with Pro in certain districts (and these gremblerg are to
 cate that 1913 comes not ont whit behind any lormer yoar in amount paid for farm produce all
over our county. While there has not been as large a yield per acre as some proceding year vel the increase in prices has more than ove has come in for a larger share of monies recoil ed, as also attracting increased attention on the part of would-be speculators.
proved exceodingly
remunerative,
Onion
small
frowing being made by some who were not frightened by the disaster of 1912. One man is credited wit receiving about $\$ 10,000$ as his share of the spoill
from a 65 -acre onion patch. Peaches althouch an exceedingly large crop, were disposed ci with out any great difinculty, young orchards, i.
three and four years old, returning from two three and four years old, returning from two to
three hundred dollars per acre, while older sections gave much larger returns. Tomatoes were even a. greater success than former years, freedom picking and dolivering until factories closed pictober 15 th, but even then there were many bushels which might have been gathered had any
provision been made for utilizing same. Corn provision been made for utilizing same, Corn
likewiso fully matured and so far as yield and sample are concerred may be classed No. 1.
Climatic Climatic conditions have somewhat retarded operations in the field, so that considerable husk-
ing is still to be done. The demand for feed is not great, owing largely to decrease in number of stock, caused largely by removal of the tarif on meats. This action of the United States
Governnent means thousands of dollars to Esse in poultry alone, as it gives us freer access to Detroit markets. The good roads project which is being discussed at present is bringing out a
diversity of opinions and owing to failure on the part of projectors to give a proper elucidation of their proposition is not receiving the endorsa tion of many who otherwise might support the
same.
There are certain objicctionable features in connection with crtain objectionable features
as the the
as than routes, as well as the financing, which many feel require careful consideration before the project becomes an es-
tabished fact. The idea of a belt line skirting largely the shores of Lakes Erie and St. Clair, with a fow spurs thrown in, does not meet with
the views of nany who expect to utilize the the views of many who expect to utilize the road
when completed. Why a road which is supposed to benefit those who require to market prosuce it a season or the year when good roads are becouth of our county, leaving out of consideration $\AA$ large section of our corn and pork-producing armers, must be answered satisfactorily before
hey can be expected to lend themsolves Chey can be expected to lend themselves to any
such scheme. Rumor also states that in rela tion to the financing a certain amount (and some
say all) of money raised from incorporated towns Say all) of money raised from incorporated towns
and villages is to be rebated, leaving the burden entively upon the rural districts. Furthermore reports have it that taxation is to be general
and not distributed according to benefit received.

that elcosors may he in a position to vote in elligently Essex Co., Ontario.


His Eye on the Future
The prize-winning wheat, at the Dry-farming Congress at Tulsa, owned by Paul Gerlach, of in pint quantitites with not more than two to one man. This Marquis wheat, as shown weighed 71 pounds to the measured bushel. It became the property of the Rumely Co., who do nated the separator to the winner, but was turngress with the International Dry-farming Consmall tots and request that the highest bidders the proceeds to go toward the support of the Congress. The auction will be conducted from the offices of the Congress. The priz--bushel has by the Congress on the samples. Application yy the Congress on the samples. Application
for the wheat, accompanied by certififed check or postal orders, will be received by the Congress up to January 1, 1914. On that date the
aplications will be opened and the 64 men who applications will he opened and the 64 men who
have sent the largest sums of money will each be miniled, at once, a carefully packed pint of the wheat, together with a certificate showing that
the wheat is a part of the prize winning bushel the wheat is a part of the prize-winning bushel
All money sent by persons whose bids are no All money sent by persons whose bids
We are informed by the Veterinary Director
General, Dr. F. Torrance, that the followiry General, Dr. F. Torrance, that the following
Ministerial Order, No. 42 , relating to the entry into Canada of United States cattle for exhibi
tion purposes has been signed, to take effect from tion purposes has been signed, to take effiect from
1st January, 1914 : "On and after January 1st 1914, all cattle over six months old entering
Cnanda from the United States for exhibition purposes shall be accompanied by a certificate sismed by a Veterinary Inspector of the United
States Bureau of Animal Induatry or a certificate from a reputable veterinarian, endorsed by
a Veterinary Inspector of the Tnited a Veterinary Inspector of the United States
Bureau of Animn I Industro Rureau of Animal Pndustry, stating that they
have successfully passed the tuberculin test within the six months preceding entry to Canada,
and an affidavit or solemn declaration an owner or importer that thm said certininate refers
to the cattle offered for entry and to no other?

## Artificial Fertilizers, Their Nature

 By b and Use-II.During the rie, C. D. A., P. A. S. I., F. C.S followed the accession of Elizabeth to the thron Span England, particularly after the defeat of the specurity to the had imparted a greater sense ceived a wonderful stimulus, and it is recorde that armers at that time began to devote more
attention to the conservation and application of burnyard manure. AA frrm belief in the virtues of
manure, counled with a commendable faith in manure, coupted wen
benefcent
lamer farmer of a less remote period, when questioned
as to the cause of his luxuriant crops, to reply "Muck an' (pointing upward) Him,"
composition of barnyard manure. The nature of the live stock, by which it has been produced, the kind and quantity of the
litter emploged and the manner in which it is
subseaquently handled subsequently handled, are all determining factory
in the composition of manure. Milch cows and young, growing animals utilize large quantities or nitrogen and phosphoric acid in the production
of milk and in building up the tone and of milk and in building up the bone and muscl,
of the hody, so that the manure from them is much poorer in the elements of fertility than that rom adil or fattening animais. One to of average, well-made barnyard manure may con
tain 12 Its. nitrogen, seven tos. phosphoric acid and ten ros. potash, or as much nitrogen as
 phosphate, and as much potash as is contained in 20 Its. muriate of potash. Since the most valu
abbe part of the fertilizing ingrodients is in the able part of the fertilizing ingredients is in the
liguid portion of the manure, considerable loss unually orccurs throunh leaching and where ex-
treme carelessnoss prevails. the manure which is treme caralessnoss prevails, the manure which if
usually spread on the land may represent little usually gippera on the
more than rotting straw

COnserving fertility in manure
Horse manure contains less liquid than co manure, and heing more porous, admits air freethe loss of nitrogen in various forms. To pre the loss of nitrogen in varinus torms. To pre
vent this the horse and cow manure should be mixed together, and the heap kept consolidated
by occasional tramping with stock.
Covering by occasional tramping with stock. Covering
the heap with loose earth in mild weat her is also recommended. Loss by leaching may be partial
 or. ilt this is not conveninent, the manure heap
should be situated on a clay or ther impervious bottome or a floor of concrete may be laid.
Pron lat Probabily the great test efficacy is secured when the
manure is drawn out and spread on the field during the winter.
VALUE OF BARNYARD MANURE.
It might seem outside the scope of the present
treatise to dwell at. length on this subject but it must be remembered that fertilizers are more often considered as supplements to, than as subthates formers manure. Morenver, it it is desirable the latter, since the tendency amongst some is ${ }^{0}$ regard it as a by-product. Which costs almost cepresents part of the active fertility izing drawn from the soil and returnable thereto with interest. when calculating the cost of the manure employed in their experimental work. value it at the absuraly low figure of 35 cents per ton. The act that in a fev localities (from city stables,
otc.) it may be obtained at that price, exclusive of cartage costs, does not warrant the assumption that the figure mentioned may be taken as The price of average barn-vard manure is none too high when placed at $\$ 1.50$ per ton, and is often manure undoubtedly lies in its physical action whereby a stiff clay soil is rendered more open in lexture, and a light. sandy soil is bound together also provides the soil with humus, this Marnishing the favorable hacteria 'with a suitable medium or their development. Generally speaking, the well-roted manure ought to be appied to the
liighter, und the more strawy
material
to heavier soils, the reason for this being obvious.
FERTLLIZERS AS STPPPLGMENTS TO
Crops to which a heavy application of manure
has been anolied usually display a rank qrowt of coarse foliage, while the fruit of reproductive part of the plants remains immature and unde
veloped. This is due to an excessive supply nitrogen, the predominating inncedient in barn
yard manure.
Bearing in mind the composith ard manure. Bearing in mind the compositio generally speakinge and constdering that crops
timand aproximately three
times as much posphoric acidd and notush times as much phosphoric acic and potash as
they do nitronen. the importance of supplem iny the manure with fertilizers, to secure the proner balance of ingredients. can be readily ap
preciated. prociated. It is a common delusion that the
role of fertilizers is to supplant barn-yard
manure, and aecordingly we find experimenters tinls (nitrogen, phosphoric acid or potash) then
comparing the results of an application of 20 no matter how much of the two ingredients are
 from a
artificial fertilizers, and when they manure at $\begin{aligned} & \text { moir cents per ton they have done all in } \\ & \text { thower towards effectually barring the }\end{aligned}$

 ouminst ten tons.
gyalancen fertilizer.
tala
cibaracter of crop as affecting fer-
TIIIZER REQUIREMENTS. The nature of the crop is usually the principal
 to 1 is requirements and uses of the difierent elements onother in respect to its demands upon the
from anoter
Und trim another in ingredients in the soil. Mrop3
various fertiker ind
havin a short growing period will naturally rehaving a short. growing period will naturally re-
nur larger amounts of readily available plant quire than thone whose growth is more pro-
food than The benefits of a crop rotation are due
tracted tracted. The the conots diferer in their requirements. available supply of phosphoric acid and potash. but has on ditituctly in obtaining nitrogen, since
belongs to an order of plants (legumiclover belongs to an order of plants (logumi-
osee), which can assiminitate the free nitrogen of osae, atmoshhere with the aidd of coertain becteria.
the
ving in little nodulus on the roots. Clover not live amin intitle nodules on the roots. Clover not
linily secures all the nitrogen necessary to tits own


 obtaining their phosphoric acid and, therefore,
readily respond to fertilizers, containing a high
 the other hand, require a predominane of potash
in the fertilizer. it can thus be sean that in the fertilizer. It can the re be seen that a
fertilizer, adaptod tho the requirements of ono crop, may be unsuitable for application to an-
other.
character of soll as affectivg ferMuck soils present an instance where the nadetermining the fortilizer requirements. Muck consisting as it does of a mass of decaying vege
tation, with but a small admixture of mineral matter, is is invariably rich in nitrogen and do-
fcient in potash, which accounts for the greatly
 potash alune on thase sorn ail elements, of fertility, but especially poor in potash. On the other hand
a clay soil will be comparatively rich in potash alclay soil will be comparativer present in unavailable compounds. The nature of the sub-soil, as
well as previous treatment of the soils probaly
and

 emphasizes the desirabil.
perimenting for himself.

Functions of the fertilizing in-
Without going into unnecessary detail, the
iunctions may he briefy stated as follows:
Nitroven promotes the growth of stem and
 cabbage or other leafy crop.
Phosphoric acid chiefly infences the root dovelopment in the early stages and the seed formation during the tinal star arnips and grain. explains its importanct to the formation of carbohydrates. which comprise the starches of potatoes, grains, etc., the supare in stem and leal.
tahbes and the fibrous matter in Lhe plant, but, as already noted, is usuanly present in uquicient quantity as a plant food, the
shief object of tis application to to to toing beong the improvement in texture and counteraction of
ncidity in certain soils. Lime also hastens the acime in certain sois.
consumption of the "availahle" potash in soils. but does not break down the unavailable com-
pounds. Its indiscriminate use gave rise the the
Ithout manure old adage, "Lime and faimeng poor."
niskes both farm and farmer
By Means By means of a series of of the tact that certain
ormany demonstrated the plant nutrition, an substances are essential to plant nutrinco, and
that one element cannot percim the functions of
on this dis.


 that of its weakest link." For instance, if the
soil be deficient in either one of the three essen
no matter hoov, much of the two ingredients are
applied, maximum yields couid not be ontained, since this is only possible when the plant
petite for each essential has been satisfied. In the next article the sources of the
fertilling materials will be dealt with.

Transportation and Canadian Milling
The Toronto Globe is on the right track in try's affirirs how adversely ocean transportation chiarges may arfect the mill ing industry by dis-
crimination aga inst flour in favor of wheat shipment. Fhepresentative millers have pointed out
that rates for many years was about two cents per hundredweight, various advanoes and changes
have brought the difierence to between five and hevelve cents in favor of the raw material, which
twich the shipping interests desire for ocean boat bal-
last. Floun shipmen are in the intersat of Canadian milling, and also advantageous to agriculture by increasing the available supplies of
 frarming and ive-ptock materials for these pur-
and reasonably price
poses ar tactors in keeping down the cost oo poses aro factors in keeping down the cot of
production, and ultimately the cost of meate and
dian dairy products to the consumer. It,
fore, becomes necessary to exercise public author-
ity ity, and provide such transport facillties as
effect the greatest good to the most people.

Death of John Ira Flatt.


 started out in life in this country by working on
te the farm of an uncle. force which was heavily
 ness, octive part in publicic life, and was exceodingly popular with the communtis. to the position o
 ing of Notrth Wentworth in the Provincian Parnor-
ment.
mht . Flatt
was a
are
 came exceadingly weat, Hamilton, and D. C . F.
troo son, . D. Flater
Millgrove, and by four married daughters.

How the Public is Fleeced. Some iden of the ways in which promoters and heads of large companies may an an brought to light last week in the Government investigation into the affairs of the defunct Union Life Company. A tong chaiden of the Union Life and used by him to finance the latter company, which is now in liquidation, and the estimated $\$ 1,2008$ is rocive any returns.
The National Agency Company, the parent company of the Trion Life, and which is now in
liquidation, was one of the chain and is not likely to pay anything to creditors, dabenturb
holders or shareholders.
The National Land, Fruit and Packing Company is now in liquida tion, wifth an attempt being made to roorganize and unless this is sheressur
most $\$ 500,000$. The Imperial Loan Company, $r$ most \$500,000 Thich has now been made for wind ing up; the Canadian Provident Investment $\$ 340$, still operating but owing the Company, who
Ooo: the Home Life Insurance Con business was recently reimbursed by the sun
 still in business with Lifeen burt this company ha
held hy the Uuion the small tangible assets s the Agency Land and Socurity Company is still in business, as is also
 assets are erporions.
of
or

da Provident Investment Coompany, \$9,700 to | ada Provident IIrvestmen |
| :--- |
| the National Credit Clearing Company, $\$ 81,500$ | to the Imperial Loan $\begin{aligned} & \text { and } \\ & 885,000 \\ & \text { to } \\ & \text { ene } \\ & \text { Packing Company. The }\end{aligned}$ tional Land, Fruit \& Packisng company agent of

National Agency Company manging Nationnal Agense, received over $\$ 1,000,000$ from the people and 8800,000 of this was put in the
Union Lifo and lost. The National Credit \& Union Tlearing Company's capital stock of $\$ 50,000$ was
 cash. This company assisted. in a cransed
involving the purchase of the Home Lifo stock hy the Canada Provident Tnvestment Company
and secured a commission of $\$ 25,000$, which
at once put to the use of securing control of the
Canada Provident Investment. that the money received from the Canade Provident was used to buy Canada Provien rewok-
The Agency Land \& Securities Company was The Agency Land \&e securities company was ap-
itaized at $\$ 50,000$, paid by transferring to the
 National lando Fruit \& Packing icompan,
 irst payment made by the Canada Provident on
the stock was 50.000 out of the of the, tion bor
bot rowed from the Union Life. The dealing back
and forth between these companies in shares wos
 Company $\$ 729,000$ was preferred and $\$ 486,000$ pommon. translerred to it options on real estate, liiens, otc., and debentures for s.ans, on, and got to pay $\$ 135,000$ for ten veers. The compeny

Many other transactions were recorded at the
investigation, all going to .hhow how funds were investigation, all going to ahow how funda were
manipulted to Hoat and operate a chain of com-







 citd so
ditivers.
celt

## A Few British Live Stock Notes.

 An outbreak of foot-and-mouth dieeaso in in a remarkable trade since the ports of the
world were declared opened to us a tole one. I have been making out-a 1 ittle bit of the chilef minners of honors at our thternation oxhble herere have

 ${ }^{\mathrm{W}} \mathrm{D}$ D. Sirton:-1012, ع120; 1910, £10.5. J W. Silton :-1911, 813.6 .8 . 20016.8 ; 1911 But the American harness horsemen have done even better. Here is Juage w. He to Jondon
 1912, se10 1013. 2840. A Walter Winans has been in tho prizo-list every
year since the International opened, its regal year since the seavernationts his horaes (toth

 1911, \&702.100 1912,









 numbered 24 head, and, whit bulk of thom were
were hall
purchesed
 thene finure the opoduce of the Toronto ohamplose, a yearling, and allso as a twoy year-old, when he was this fine shipment are by the woll-bred
in
hores



competition, held annually in connection with that Exposition, Texas was the winner, On-
tario, Manitoha and Macdonald Colleges of Cantario, Manitoba and Macdonald
ada were placed in the order named and sixth,
and seventh and eighth in the list. Macdonald Col-
lege scored the bighest number of points in lege scored the bighest number of points in horses, making the highest score in any one clase
of stock. Manitoba was second on heeef cattle. An Ontario man was ninth in the total of 60
men competing. The scores follow : Texas, 3 ,

 3.409; Mardonald, 3.402; Kansas, 3,290; Okla

Western Dairy Convention
The Convention and Winter Dairy Exhibition the Dairymen's Association for Western Onario is billed for Stratford on January 14 and 15. 1914. Frank Herns, the secretary, has proared samples of butter from Alberta, United tates, New Zealspection. This will afford producers an opportunity of studying grades of butter that are noted for their superiority and a chance to compare them with Ontario's best.

Texas Students the Best Judges. An editorial representative of "The. Farmer's
Advocate", now at the International Live-Stock Advocate", now at the International Live-stock
Exposition, in Chicago, wires as we go to press
that of the twolve teams of five men each from various agricultural colleges in Canada and the


## A Savings Account As An Investment

 ${ }_{\text {of }}$ A savings arcount in the Reank meat tion three oresonso quisitio-Sefetig Second, It is allagy readily availabie in casion,

 otal Assestis ouer se0,000.000 ${ }^{\text {Indogen }}$
The Bank of Nova Scotia



## Markets.

Toronto.
At the Union Stock-yards, West To Anto, Monday, December 1st, receipt ere 186 cars, comprising 3,205 catlie,
712 hogs, 2,456 sheep, and 306 calves Trade was active in all classes, with
choice butcher cattle 25 c . per cwt. higher choice butcher cattle 25 c . per cwt. higher
Choice steers, $\$ 8$ to $\$ 8.25$; good, $\$ 7.75$ hoice steers, $\$ 8$ to $\$ 8.25$; good, $\$ 7.75$
088 ; medium, $\$ 6.50$ to $\$ 7$ cows, $\$ 3.5$
 or $\$ 6.75$, stockers, $\$ 5$ to $\$ 8$; milkers an springers, $\$ 60$ to $\$ 100$ each; calves, $\$ 8$
to $\$ 10.50$; sheep, $\$ 4$ to $\$ 8 ;$ lambs, $\$ 8$ to
$\$ 8.80$ hogs, $\$ 8.60$ fed and watered, an 88.60 ; hogs, $\$ 8.60$
$\$ 8.25$ \&. o. b. cars.

REVIEW of LAST WEEK's MARKET: Cit City and
week were

| The total receipts of live stock at the City and Union Stock-yards for the past week were: |  |  |  | calves.did not begin to equal the demand on any day of the week, and prices were never higher or firmer. Choice vealssold at $\$ 9.50$ to $\$ 10.50$, and in several |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Union. |  |  |
|  | 21 | 437 | 458 |  |
| tle | 556 | 7,063 |  |  |
| Hogs | 83 | 6,831 |  |  |
| heep |  |  |  |  |
| Ives |  |  |  |  |
| Horses |  |  |  | and lambs, although th |
| two markets for the corresponding week of 1912 were : |  |  |  |  |
|  |  |  |  | sold at $\$ 8.25$ to $\$ 8.85$. Hogs.-The bulk of the hoge sold at |
|  |  |  |  |  |
|  | City |  |  |  |
|  | 65 |  |  | 8.40 f. o. b. cars, and 88. |
|  |  | 872 | 8,714 | weighed off cars at the market. mRFADStMFFS. |
|  | , 182 | ,33 |  |  |
|  |  | ,503 | 10.3 | Whent.-Ontario, No. 2 red, ${ }^{\text {mhite }}$ or |
| orses |  |  |  |  |
|  |  |  |  | Toronto: Manitoba No. 1 northern, 92 c . No. 2 northern, $90 \frac{1}{2} \mathrm{c}$. Oats-Ontario new, white, 33 亿̂c. to |
| the two yards for the past week, show a decrease of 131 carloads, 1.095 cattle, 3,605 hogs, 5,307 sheep and lamis, and |  |  |  |  |
|  |  |  |  |  ronto; Manitoba, No. 2, 39굴.; No. 3 |
|  |  |  |  |  |
|  |  |  |  |  |



Lambs were in good demand also, and
prices were rather firmer than the pre vious week, being 7 t.c. to 8c. per lb.
Ewe sheep showed
little change, being firm, at 4c. per lb. Fewer calves were received on the market, and as a conse-
quence prices were quite firm, being from $\$ 3$ to $\$ 6$ each for ordinary calves, and
to $\$ 15$ for the best. Hogs were in ood demand, and sales of selects were ade at $9 \frac{1}{2}$ c. per lb., while straight lots sold at 9ic., and
weighed ofl cars. Horses.-The absence of snow has not been helppul to the market. It is con-
fidered now that December is here, that he snow wilh not be long in corming, , and
his thought that this will cause inreased activity in the market. Heavy
draft horses, weighing from 1,500 to , $700 \mathrm{lbs.}$, sold at $\$ 300$ to $\$ 350$ each
,ight draft, 1,400 to $\mathbf{1 , 5 0 0}$ lbs., $\$ 225$ to $\$ 300$ each; broken - down, old animals. carriage animals, $\$ 350$ to $\$ 500$ each. Dressed Hogs.-Practically no change
ns taken place in the price of dressed ogs, and sales were still made at $113+\mathrm{c}$ e.
o 13 atc. per 1 b ., for abattoir - dressed resh-killed. The colder weather, how and prices are generally firmer out steady, receipts being fairly, large or this time of the year, owing, no
doubt, to the continued mild weather. Green Mountains were quoted at 85c. to
90 c . per bag, ex track, in car lots, while
 higher, ex store. Bags weigh 90 lbs . Honey and Syrup. White-clover comb
was 15 c . to 16c. per lb.; extracted, 10 zc .

 hile syrup in wood was 7 c . to
maple sugar, 9 c . to 10c. per 1 b . Eggs.-Eggs are advancing in price so
last that it is difflcult to keep track of hem from day to day. Last week rictly fresh eggs were quoted at 55 c . 60c. per dozen, which was probably ime of year. Selected eggs were also
igh, being 37 c . to 38c. per dozen, while high, being 37c. to 38c. per dozen, whice,
No. 1 candled eggs were 31e. to 32c.,
and No. 2 candled held around 25 c .

Butter--There was no alteration in the Butter-There was no alteration in public sale, but this was not reffected

 wrad frm, at 23 c . to 24 c . per tb.
wheese. Cheese.-Cheese showed very little
change, and the local demand was not orth speaking on domand was no
 134 c . to 13 ? c . for white Grain.-The market for oats was slight-
y firmer. No. 2 Wentern Canada oats.
were 0 oic. per bushel, ex store; No. . 39 c., while No. 22 feed sold at 38 zi c .
Argentine corn was 78 g c . per bushel, ex Flour. - There was no change in the market for flour. Manitoba first-patent
flour was quoted at $\$ 5.10$ per barrel. in four was quoted at $\$ 5.40$ per barret. ing
bags: seconds being $\$ 4.90$ and strong
bakers' $\$ 4.70$ Ontario winter - wheat hakers' $\$ 4.70$. Ontario winter - wheat
flour was unchanked, at $\$ 4.75$ to $\$ 5$ for
patents, and $\$ 4.50$ to $\$ 4.60$ per barrel. in wood, for straight rollers. Millfeed.-Bran still sold at $\$ 21$ per
ton, and shorts were $\$ 23$ in hags, while middlings were were $\$ 28$, in hass, while bags
Honille Monile was $\$ 29$ to $\$ 30$ per
and $\$ 27$ to $\$ 28$ for mixed.

DECEMBER 4, 1913
THE FARMER'S ADVOCATE.

| Buffalo. <br> Cattle receipts fell off at Buffalo the | Chicago. |
| :---: | :---: |
|  |  |
| ns figuring 5,950 head, |  |
| nst 9,400 the preceding weak |  |
| Ofor the corresponding period last |  |
| ar. There were something like a hun- | ${ }^{87}$ |
|  | Sheep and Lambs.-Sheep, native, \% 1 |
| 5, some |  |
|  |  |

Indiana and ohio steers of good weights of Kentucky shipping steers ranging trom $\$ 8.30$ to $\$ 8.50$. Fewer Canadian heifers on the butchering order. Local killers

have been complaining of late at the bruised condition of the handy, killing, tht heifers, and took of values so that | the Canadian shippers let up during |  |
| :--- | :--- | :--- |
| the past week forwarding these. | Trade | ho past week forwarding these. ovrate provious week, there being a better and stronger undertone to the trade general-

ys. Monday the market was more ac. tive. and while the general market was
steady, some choice killing kinds selling iteasy some choice dime to firteen cents bighor, Medium and lower grades held
 lower. It wass generally an unchanged
deal on stockers and feeders, some trong
 not tat enough for killers, going to the
country for feed, at prices ranging to to
 $\$ 7.25$
teeders quotable mostly from $\$ 6.50$ to
$\$ 6.75$, some select selling at $\$ 7$. Bulls 86.75 , some select selling at $\$ 7$. Bung
are selling high, and are in good, strong demand, tops reaching $\$ 7.15$ to $\$ 7.25$. tood milkers and near-by springers ar
bringing very high prices, some sales the past week reaching the extreme fancy
prices of $\$ 130$ to $\$ 150$ each, but were no criterion to the general marke
Medium and cormuin milkers and back Medium springers were weak. The market closed up strong for the week, sellers week. It is estimated that somechattle
like 100,000 head of Canadian cat have been shipped to America since the
tarifi was taken off, the big end being atockers and feeders. 10gs.- Iog receipts
800. as against 58,400 for the preceding
week and 48,800 for the corresponding period a year ago. There was a good, active, hog trade all week, prices being
held within a fifteen-cent range on packat $\$ 7.95$ to $\$ 8$, some reaching up to
 $\$ 7.50$. Roughs sola at $\$ 7.25$ to $\$ 7.35$ Sheep, and Lambs.-There was an im-
proved lanmb trade the past week, under light supply, prices for the first three
days jumping seventy-five cents over the preceding week's elose, high day showing lops reaching $\$ 8$, last of the week show
Ing range on best lambs at $\$ 7.80$ to
 some prime, handy ones, selling at $\$ 4.50$,
and top wether sheep quotable around \$4.75, and the best yearlings around $\$ 6$
$\$ 8.25$. Receipts for the week were 24,800 : preceding week, 39,200 ; year ago,

49,000 | Calves.-The latter part of the week |
| :--- | Was high time for calves, First hall of the week prices on tops ranged from $\$ 11$ to

11.50 . culls $\$ 10$ down. $\$ 11.50 ;$ culls $\$ \$ 10$ down, and grassers
$\$ 4.50$ to $\$ 5.50$ Canadians sold better The latter part of the week by 25 cents, ome common grassers from across the
order moving from $\$ 4.85$ to $\$ 5$ while
ored one deck of good Canadians that showed
quite a bit of kill. went to slaughters at
6.25
 and 1,700 a year ago. There were about week's supply.
Butter.-Creamery prints, 34 c .; cream-
ery firsta, 33 c .; fancy dairy, 28 c . to 29 c
2




## $\$ 100$ or $\$ 10,000$

No difference how much you may have in the bank at $3 \%$-you should obtain for your money a per manently safe and profitable investment

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President.
General Manager.


## THE WOMEN'S INSTITUTE CONVENTION



Mr. Geo. A. Putnam.
The popular Superintendent.)
On Thursday morning, Nov. 20th, abou the Province wended their way to the Canadian Foresters' building, where the Eenth annual convention of the Women's Institute was held. When we entere ad very popular superintendent, Mr. G tnam, and may I just congratulate Ins Women's Institute for, having such so very much toward the advancement and success of this splendid Society. Nine years ago the first convention wa held in Guelph, with about one hundred
delegates present. The Society has grown so rapidly that, as I mentioned before, the convention just held had
gathering of about eight hundred dele gates. It has been quoted from good authority, that the Women's' Institute to-day considered to be the stronges
organization in the world of any wor along this line.
Mrs. Bacon, of Orillia, presided at th
first seesion. She first session.
the die gave a message to
taken from a Toronto paper. The one truth in having a suc cessful lite is to attain to quality of life,
Our lives must not be stunted by any Our lives must not be stunted by any
unjust thought or action, but we should cultivate the habit of seeing the best in our friends, and thu
into a spiritual one.
into a spiritual one.
The reports gave some very interesting ideas on the work done by the different
branches. Many of these were along the branches. Many of these were along the
lines of civic improvement; places of amusement have been provided; town halls decorated; reading - rooms and
libraries equipped; cots in hospitals donated, drinking-cups provided for schools; village streets lighted, and many other improvements accomplished.
The leading thought running through The leading thought running through
all was the value of all working together to make a success of anything. Mrs. (Dr.) Wilson, of Parkhill, gave an
excellent and practical addreas on medical excellent and praral schools. This was followed by an illustrated address by Dr. Struthers, Toronto. As both were
on the same line of work, may I be peron the same line of work, may 1 be per-
mitted to combine, as space is ilimited. The underlying thought is the absolute necessity of the careful attention given
to children, the building up of good strong. healthy and pure constitutions.
Statistics ware given showing the num-


Miss Emily Guest, Belleville, Ont. people break these laws and never know Many warmly clad. a continuation of colds. The schoo nurse shou d be a link between the home
and the school, by coming in contact with the mothers and pointing out de-
fects not known by herseif and the family physician, who is hersy called in in an immediate case of illness. The picture
given showed the medical inspector and school nurse examining the childre
brought in for inspection. brought in for inspection.
Mrs. Inch, of Hanilton, gave for her
leading thought the need of elficiency as a great moral safeguard, and impressed the teaching of this in our homes and
our public schools. Superintendent's report When Mr. Putnam rose to give his re
port as superintendent, he was receive with hearty applause. Mr. Putnan briefly sketched the lite of the Society
from its small beginning ten years ary from its small begining ten years ago
as a minor part of Institutes to the present, when the membership numbery
about twenty-five thousand. about twenty-five thousand. The m m
bers of the Women's Institute are the most forceful factors in the work of the home and the schools. The incentive of
the Society is their motto "For Home and Country." and here may I mention the two very handsome, framed mottos,
done by a small boy in honor of his mother. and which were given a con-
spicuous place on the walls of the

Foresters' Hall. We were sorry we did On all programmes have a definite plan not hear his name and address.
Mr. Putna people of the work of the Institutan
one to help the boys and girls to save them
from disease and evil. It is not a ques must do.
Dr.Helen MacMurchy warmly welcomed the delegates to this their home city Dr. MacMurchy gave some pracicical hints
to the workers in the Society. She closed with the thought of the society's aim to make this a holy land. The re
ply was given by Miss McGee, who spok ply was given by Miss McGee, who spok
on behalf of the Women s Institutes o our gratitude for the opportunity o
visiting the city of Toronto and taking visiting the city of Toronto and taking
back renewed energy inspired by the meetings
a clergyman's message. A very excellent address was given by
Ven. Archdeacon Condy, of Toronto. This is our growing time, both in production
and thought; higher thought leads to and thought; higher thought leads to
higher achievement. Archdeacon Cody
took for his subject the "Rights of the took for his subject the "Rights of the
Child." This he divided into parts: Child. This he divided into parts too many women give thair lives to society and neglect the great duty demand-
ed by God. Second. The child should be ed by God. Second. The child should be physically. It is the duty of the State
to prevent the perperuation of the feebleto. prevent the perpetuation of the feeble-
minded. Third. The child has a right to
Ilive. The number of children who die live. The number of children who die
through preventable diseases is the greatest disgrace to civilization. Good
mothers are the child's right. We do not see results of overcrowding in the country; the city slums are breeding
children who will wreck The child has the right to protection. The State should interfere with drunken or careless parents of children who
should have. healthy, happy surround-
ings. Fifth. The child has the right to play, to be given the proper opportunity
to play, and to be taught how to play to play, and to be taught how to play
properly; gooo morals are learned from
good play-grounds. Sixth. The child has the right to the best education that can
be obtained. The true aim of education be obtained. The true aim of education
should be the development of character. The cadet movement makes for good
teaching, elements of discipline and a corrective of selfishness being two leading The decay of manners is od matter of
lamentation. Good manners teach un lamentation. Cood manners teach un-
selfishness, success,
cheerfulness.
Manneers and morals are important to youth.
If the diamond is there it will stand
 every good work done in the communit
connected, individual efficiency and ambition, the necessary aim for the uplifting
of family life, and the life of the country. The support of the Governmen, and the Dominion and Provincial Depar
ments of Agriculture, is most heartily
assured to the Society. The little kind assured to the Society. The little kind-
ness done the needy, the widows or orness done the needy, the widawir
phans, and in helping young girls, are
ofter often greater ways of showing great
work than large things which make more
display. We must have a unione with display. We must have a union; with-
out this very little can be accomplished
The outstanding characteristic of the work done is in the consideration of the
child. Mr. Putnam expressed his belief child. Mr. Putnam1 expressed his belief
that women should have a place on every
school board. The Institute has proved itself the most forceful factor in improve
ment of rural conditions, and it is stronsly advised that something be done to counteract the unwholesome social conditions
of our cities and towns. Broadmindedness is one outstanding feature of the
Women's Institute.

The Question Drawer was very cleverly and capably handled by Miss Watson, of Cuelph, and Mrs. Parsons, of Forest, twate
ladies well known as clever Institute Momen. Watson spoke of the value of the
Miss
teachers' course, and the employment of eachers ${ }^{8}$ course, and the employment
good teachers; the teacher who only knows how to do the pretty things and
neglects the useful ones, is a failure.


Mrs. L.A. Hamilton, Lorne Park, Ont In Miss Smith's talk on the great
wormen of Canada, she gave the pionee women irst place,--they who came, en
dured, and conquered. The purur, noble assets of empirebuilding are the mother
and sisters who instil the principles loyalty. The Canadian wornan is espe cially gitted in good practical judgmont
if we take care of homes, the country will take care of itself. A special trib ate was paid to the work done by the

DECEMBER 4, 1913
polishing. There are three popular delu-
dions which the general public belilet

 menge of humor. Third. That we have achool with a love for reading, he is is well
ducuated. The wives and mothers soould ty the strong foundation of religion, and
thould teach the child courage, temperance, and morality. The basis of moral ure of gratness is the growth and power
the ofi. of the soul.
The Hon. Martin Burrell, of British
 mpressed by the tremendous force of the that "the State is a woman." A parent ho leaves hais child a weill - illuminated mind and heallhy body, does more good
to the state than to leave a vast sum to tho Stet. Than infuence of or good
of money.
woman is absolutely incalculabe on nan's character. Cheorfulneas and in-
olligence are the basis of all the great telligence are
things of life.
farm work for women. Irs. Hamilton, of Lorna. Parľ, gave an turese ahowed the posibilities of tarm
work done by women. Hard work and
 capable and intelligent woman can do
nuch, and can make a fair living. Many much, and can make a arar ilivin. Many
women fail because they do things which orerax their strength. They should
oreater provide small and suitable imtherefore, provide small and sultabie
plements
oro work
wor Mrs. Goltz, in her pork not for honor.
vised tone members to mork
but for the goor we arin to do.

THE FARMER'S ADVOCATE
 organ, can beome arrectea. .the great
danger oo contagion is trom the diso charge from any organ containing tubercle
bacilili. Another cause of transmission bacilil. Another cause of tranamission
is trom the sputum, or trom kissing on


The Hon. Mr. Duf. Mininter of Agrieur-
ture tor ontario, expresesed his pleasure Ror the priviliege of congratulating the
aeevgates on the suceess of their work as
 mighte. go homp with the foeling that the
holiday has been benefcilal, and hopell holiday has been beneficial, and hopeit
that the society may have a very happy and prosperous new year.
NATION - BULLDNG.
$\qquad$ enting address on the work of Nation-
builining. This work is focused on the

 other worz on on ocial conditions. We
have great rovivals to bring poople back
 allowed to go. Get the child right and
keep it right. It is a nobler work to Keep it righ.
buid strong men and women than naval
mave things to
 Miss Guest brought a resolution before
the audience
which
was
tavorabily ceived: That we be given a Departenent
of child Weltare, goveruen by ob oby ot ot
lasses to teach the subjects pertainsm, to the sp
the child.
Other resolutions were: One of sym-

 met with hearty and sympathotio :ep.
 Greotinge were recolved from Brition
 $\underset{\substack{\text { Colum } \\ \text { Iland, } \\ \text { wan. }}}{ }$

In pasing, may one be permitted to
speak of the beautifil collection of fow An pasisg, meautifil collection of nom-

 One foature which weemed to attroty
much attontion was an of the county

 honey mado an oxtromely proty dilpleve
but the chiof attraction for un wa thi wondertul array of homere, Wo would not have bolieved that nuch immenee and
vated.
Foim there, we took a run through the
 crowing tauing from the throate of hunby the gpiendida wxibibition of poutitry nand the difirent clasese ahown, but a a
were
limitited to time wo had to hurry were

## Flowers in Toronto, and Talks About Gardening

Chrysanthemums Speaking of chrysanthemums-were you so fortunate es to visit the Transportar-
tien Building out at the Exhibition Grounds during the recent winter show
in loronto? If so the mention of in Porontor it all back-the big hall
them will hring it
frngrant with perfume of apples and pears and grapes. the tables of honey
arranged in pyramids of liquid gold, the arranged of one of Toronto's best orches-
music or
tras, the palms and ferns and orchids tras, the palms and lerns end of the
transforming the southern end transforming the southern end garden of
big building into a veritable gate all the
Haroun Alraschid. but above all Haroun Araschid. but above all the
chrysanthemuns. everywhere the chryachrysantheruins. great globes of gold and
anthemums. bronze and pink hnd wers ago, when orrm and color. Some years ago, when
the Flower, Fruit. and Honey Sow was in Massey Hall, a single chrysanthemunn
trom the Dale greenhouses at rampiton, was siven a special post of honor, and plarard was attached to it stating
that mensured $23 \pm$ inches around. This year, nit onlv from the same
grveniouses, but from those of Jennings
of Rrampton Sir Henry Pellatt and Brampton, Sir Henry Pellatt and
others. were not one but scores of
of flowers each measuring 24 and 25 inches
large
in
incumference.
Sometimes in circumference. Sometimes large
flowers do not appeat, but the crrysanthemum seems to bear the enlarging
process well.
one wonders, howerer.
when the development will stop. "Large when the development will stop. "Large
as cabbages ${ }^{\text {is }}$ the exclamation to
day. Will not that of to-morrow be day. Will not that of to-morrow be
"Large as pumkius !" or as "wash-
 watch this, the evolution of the chrye
anthemum. anthemum.
Another item of interest in the hall
was a series of decorated dining'tables Was a series of decorated dining winng the
in various color notes, that. winnivg and
first prize heing a shimuner of siver and mauve with orchidk as a centerpiece and
smilax trailing over the white cloth. In looking at such tables one is surely
reminded of the distinction between "eating" and "dining."
Just a few words here,-it did seem a
pity that, with the best flower, fruit pity that, with the best flower, floors
and honey show on record, the flo
should have shown for the most part. should have shown many bare spaces so, far as spectar-
she exhibit was
tors were concorned. tors were concorned. The exhibit on a
well worth the little trip out on the
street-car, and it is to be hoped that street-car, and it is to be haper me committees in charge may
next year the conran
receive the encouragement that their rective the ell deserve.
efforts so well din

AMONG THE GROWERS
Here in the Transportation Building
were results. Farther up in the city, in the Railway Committee Room of the
Parliament Buildings, to be precise, one carliament it waildings, to be prectise, one
came as it were to the brain-power
which which as it wera to the mata such results possiblo,
which
or here sat in ennvention the delogates or the one associntion in Ontario which
of the
has set itse has set itself primarily to the promo-
tion of the growing of flowers, shrubs and trees (with sman frutts and vege beeutiincation of our Province, -the Horti-
cultural Association of Ontario. Now, do not turn a page, saying to


Where the Horticultural Convention was Held Parliament Buildings, Toronto; tulips in foregro has nothing to do with the farms.
have none here. $I$ am not interested in or woman who was a garden enthusias
on it." If you have not a Horticuve you the beautiful., of the light
Society in your district, why have you soursell see the blessed out of doors? not? Why should not you yoursilt see to True, there is a small fee to cover ex that one is started -Association, Mr. J. penses in connection with joining th
the Secretary of the Al
Parliament Buildings,
Horticultural Association, but it is al
 Toronto, a meeting caly is under weigh.
 helpers to make it a succeas.
The aims of the Association? Surely, they are worth white: More beautiful
homesi a more beautiful Province; the growing of flowers, vines and shrubs in
the best way; the preservation of natural beauty-spots-and the doing away with
hidoous sign-boards in places where they hideous sign-boards in places where they
should not be; the cleaning up of dumps should not ue; tilization of waste places: the ar
and ungement of grounds, and perfection of rangement of grounds, and perfection of
the little home vegetable, and frult garthe little home vegetable, and fruit gar
den: the beautifcation of school-arounds,
and the grounds of all public buildinge and the grounds of all public buildings
the encouragement of school and home gardens for children.
With all thene comes the moral uplitt
receive fine plants and bulbs as premiums, to come in touch with horticultural
IIterature, and with peoplo who can ant
swer swerature, and with people whe can an-
swing. in rogard to growing
thing. But, after all. things. But, after all, as Mr. T. D.
Dockray put the matter at tho convenDockray put the matter at the conven-
tion, the real spirit in joining the asso-
ciation should be, not anxiety for what ciation should be, not anxiety for what
one can get out of it, but rather for the convention


SOME HINTS FOR PLANTING The reports of the treasurer, Mr. H. B.
Cowan, and the secretary, Mr. J. Lockie Wilson, showed satisfactory progress for
the year. Mr. Wilson spoke, however, the year. Mr. Wiison spoke, however,
of the necessity lor extending the work, of the necessity for extenaling the would
and the great transiormation that would
be brought about if everyone would plant be brought about is everyone would plant
nowers and trees. Through the society Dowers and trees. Through the society
much of this might be done, but the
oficers must be ready to work hard.
 "is absolutely of no use in an organiza-
tion such as ours." He had been pleased during the year, to notice the improye
ment in station properties, but there are ment in station properties, but there are
many atations yet that are a digrace,

THE FARMER'S ADVOCATE.
horticulture in the north. Hon. W. H. Hearst, of Sault Ste. Marie,
poned the afternoon session by a most opened the afternoon session the agricultural and horticultural possibilitities in Ontario's great Northland. There is fine agricul-
tural land there, he said,-three-times more than is under cultivation-in Pat-
ricia, in the clay belt, Kenora and Rainy
River Districts. Grains, etc., grow as River Districts. Grains, etc., grow as
far north as Hudson's Bay, and fine potatoes are raised 200 miles north of
Port Arthur. As a rule, we have a very Port Arthur. As a rule, we have a very
mistaken idea of the climate; that at Abitibbe compares very tavorably with
that at Winnipeg. The long days, and that at Winnipeg. The long days, and
not excessive heat. assist greatly in the
growth and quality of vegetables and growth and quality of vegetables and
fowers, which are, as a rule, very choice flowers, which are, as a rule, very choice.
Mr. Englehart, who has made a special
study of the soil, found that that at study of the soil, found that that at
Englehart far surpasses that of parts of
Southern Ontario for flowers. He himSouthern Ontario for flowers. He him-
self had seen cabbages grown at Cochrane that weighod over eithteen pounds,
and that when grown without fertilizer. and that when grown without fertilizer.
Raspobries and strawberries grow well, Raspberries and strawberries grow well,
while apples, currants and grapes, have
been ripened as far north as New while
been r.
keard.
kems
stems stems sourteen feet in height, peas wiom free
ly. "In this new land," he said. "wo are trying to develop the beautiful as as
well as the material. The North Land well as the material. The North Land
is a great asset, and you of the South is a great do much for Canada is you do much
for the development of the North Counfor
for
try." $t$
Mr. Chambers, Parks Commissioner for Mr. Chambers, Parks commissioner for
Toronto, gave a talk on ."Parks and
Boulevards for Small Towns,", from which Boulevards for Small Towns," from which
one point may be culled even for rural one point may be culled even for rural
communities, i. e, the advisability of reserving and preserving the most striking
features, hillsides, glens, and watersides, as pleasure-grounds for the people.
at the experimental farm. Mr. F. E. Buck, of the Experimental Farm, Ottawa, spoke on "Recent Experi-
mental Work," a subject of great interest to all who know anything of the work
of that institution. Ninety-five per cont of that institution. Ninety-five per cent.
of all experimental work, he noted, is negative in result, but this does not dis-
courage mankind from keeping on; the courage mankind from keeping on; the
other five per cent. may be greatly worth $\begin{aligned} & \text { other five per cent. may be greatly worth } \\ & \text { while. For years past trees and shrubs }\end{aligned}$ while. For tears with the result that,
have been test, while countless shrubs have been dis-
while while countless shrubs have been dis-
carded, others have been found valuable. carded, others have been found valuable.
To introduce these to the public, semipopular bulletins have been prepared in
which are indicated those trees, perenwhich are indicated those trees, peren-
nials, etc., found best. On account of nials, etc.., found best. On account or
the pruning, it had been found almost thmossible to have flowering shrubs for hedges, but the following had been found
valuable for hedges of distinctive charvaluable for heages of distinctive char-
acter : Purple barry, red-leaved rose,
cut-leaved alder, and red- twigged dog-cut-leaved alder, and red-twigged dogwood. The perfect hedge must permit
pruning, must be pretty most of the
year, must not winter-kill, and must not year, mubject to insect or fungous ravages. P. Prof. Macoun's bulletin on perenial
fowers, classified for hardiness and longblooming, classified season, would io found very Valuable to flower-lovers. . At present, ers are being tested. In tests for sweet
peas it was found that, in Ottawa, thos planted in a trench did not do as well as those planted on level ground; also
those planted 3 inches apprt did better those planted 3 inches apar i che apart.
than those planted 6 to 12 inches aper
... "Seoking improvements for better homes" "this is the basis of all the work SChool Children and horticul A very interesting and inspiring paper
on the above subject, by Mrs. R. B.
Potts. of Hamilton, so impressed the
audience that arrangements were made to audience that arrangements were made to have some thousands of copies printed
for distribution. A report of this paper is not given here, as it will appear be two other papers given at this convention. second day's sessions. An interesting feature of the second
day's proceedings was the election of otilicers, which resulted as follows:
President for 1914-J. H. Benneti, Barrie.
First
Vice-Pres.
-G. W. Tebbs, Orangeville. Second Vice-Pres.-Dr. F. E. Bennett, Second Thico-Pres.-Dr.
Treasures-H. B. Cowan, Peterhorough. Secretary-J. Lock:e W Ison, Toronto.
Honorary Directors-Rev, A. H. Scot Honorary Directors-Rev. A. H. Scott,
Perth; Prof. Macoun, Ottawa, Prof. Hutt Guelph; Mr. Burgoyne, St. Catharines.
Directors-F. B. Bowden, Hawkeabury Directors-F. B. Bowden, Hawkerbury;
Mr. Kent, Kingston; Geo. Vickers, Barrie; T. D. Dockray Toronto; Jas. Ogilvie,
Hamilton; T. Cottle, Cinton; R. w. Hamilton; T. Cottle, Clinton; R. W.
Brooks, Brantford; M. Gammage, London; H. J. McKay, Windsor.
Auditors-J. S. Moorcraft, Bowmanvilie, MIrs. Potts, Hamilton.
Representative to the Canadian Na Representative to the Canadian
tional Exhibi ion-W. J. Di umand, Barrio. Representatives to the Auerican Civic
Association-Rev. A. H. Scott, J. Lockie Association-Rev. A. H. Scott, J. Lock
Wison, Mr. Burgoyne.
lawn and garden competitions. A paper by Mr. Hugh Johnston. To-
ronto, on the above subject, gave many useful suggeetions. Picture-talks. glving inethods, etc., once a week for 'a month.
at the proper season, would be found very useful as a stimulus. Later, the judging of gardens and lawns at the
times specified is most important. Prizes times specified is most important. Prizes
should be such as must reflect the groatest credit possible on the receiver; money plants will be found very good invariably, and and a trophy of some kind, e. g., a shield with an emblem or motto,
has been found effective. Inspections e. g., a shield with an emblem or motto,
has been found effective. Inspections


Chrysanthemums at the Flower Show.
hould be made during spring, summer, Special competitions in flowers and vege
ables may be given to school children din be given to school children In marking, it will be found advisable o add ten per cent. to the total for
frst-year gardens, and five per cent. to that for second-year gardens. which various prize methods were given, and the necessity for the greatest care in judging emphasized. Mr. Johnston given for ". "general appearance.", At one home, "all the potted plants in the city
were corralled" and pressed into service,
"This is not horticulture," said Mr were corra
"'This is
Johnston.

SHRUBS For Lawns. A paper on the "Best Variety of' Shrubs
for LLawns Surrounding Public Bulldings,", by Mr. Roderick Cameron, was read by
Mr. Dockray. Most buildings, it wa pointed out, look bare without the softening influence of vines and shrubs; the city Hall of Toronto, for instance, needs
them around the base and in the angles. Tecomas and Celastrus are kinds that might be used among the Ampelopsis
(Boston Ivy) to relieve the flat green, Boston (vy) to relieve the flat green,
Celastrus ${ }^{\text {Bcandens }}$ having orange-red berries that look very warm and pretty
above the snow in winter. The shrubs about the base The shrubs about the base should be
chosen to accord with the style of the building and the situation. Shrubs
likely to be satisfactory in the likely to be satisfactory in the various
aspects, are : North.-Caragana arborescens, Hydrangea arborescens, Cornus sperthii, Cornus Kerria Japonica, Philadellyhnus Siluerica, oliis aurea, white kerria, Ribes aureum East.Also for West, best - fowering shrubs. pprajer. to keep down and red South.-Burning by sun and attacks
from insects, both Irom insects, both give trouble heré
Species recommended are: Aralia spinoéa or Japonica, and Tamariparvifora. Fidy, Spirempensa is always clean and tidy, Spires prunifolia flore pleno,
viburnum plicatum, and vo tormentosum, are to be recommended, and can be used with Spirzea Anthony Waterer, toward
the outside.
Deutzia the outside. Deutzia Lemonei and
Deutzia gracilis are about our dwarlest shrubs. In small grounds, it is only the cornerb
that should be filled up, with a few ibo-
lated specimens, e. g., bay trees, eloowhere. A good picture needs a good frame; the
building is the picture, and planting building is the picture, and planting
should be done with regard to it. As a rule it is not good to put a continu-
ous row of tall trees of the same ous row of tall trees of the same size
at the back unless an ugly scene is to Fruiting shrubs are very
be shut out.
important for the winter and spaces beimportant for the winter, and are saces be-
neath all shrubbery may be improved by neath all shrubbery may be improved by
a '"over" of periwinkle, bearberry.
and enonymus radicans, etc.
Tall shrubs recominended for grouping Tall shrubs recominended for grouping
are: Double-flowering thorn, Judas tree, are: Double-flowering thorn, Juas tree,
silver bells, spindle tree, golden ookk,
fringe or smoke tree, maiden- hair tree, fringe or smoke tree, maiden-hair tree,
royal willow, Syringa Japonica, goldenbarked ash, Japonica rosea, cut-leaved alder.
Shrubs for foreground.-Diervilla, Weigelia Eva Rathke, Lonicera tartarica,
Lonicera tartarica fructo lutea, with yellow fruit. Elders are much used in the old land,
and the Japanese snowball and white and the Japanese snowball and white
fringe tree must not be forgotten, with Daphne cneorum for the front of the
border. Hydrange border. Hydrangea paniculata and H. arborescens, should be in every collec-
tion, as should Spirioa Van Houttei and
Spiran Spiras Thunnergio. Prunus triloba makes a bright spot in the garden, while
rosa rugosa gives colored fruit in the Pall. The pearl bush is an excellent,
hardy shrub. while haray shrub, while a number of dwart
sumachs and barberries are found useful
for color effect amony ahrubbery

Reports of the Committees on Nomen-
clature and Novelties wero read Hunt, of the O. A. C., who kidndy took
the opportunity to interict the opportunity to interiect many useful
hints in regard to the pants named.
In a discussion on In a discussion on plants hard to grow Mr. Cavers, of Oakville, told his plawn
of protecting the tritoma by V-shaped
pecember 4, 1913
THE FARMER'S ADVOCATE

Soards to keep of the wet in winter.
lfr. Hunt remarked, in reply to a question, that salt on the ground would
to garden lily.
Dr. Beninett, of St. Thomas, in an interesting address on Hoom Horticultural Societ,
of the St. Thomas
hecame one of the largest in Ontario, became one of the largest in Ontario,'
gave many hints for anxious societies gave many hints for anxious societies
He had accepted the Presidency, he said He had accepted the Presidency, he saic, That gave something to begin work on
Lawn and garden contests had been Lawn and garden contests had been
made a feature, and flower shows held in store windows. Prizes had been given
tor the best collections, and the flowers tor the best coliections, and
sent to the sick, whose names were ob-
tained from the pastors of the churches. sent
tiained from the pastors of the churches,
Poor foreigners and old folk were also
member cemembered. At present the member-
chip is 708 , and this fall 17,000 bulbs cemem is 708 , and this fall 17,000 bulbs
ship
were given away, and 9,000 imported for
Prizes are offered to
 avenen of prize places, minde into lanternliken, and shown, with talks; public
lower - beds have been planted, and the ower - beds have been plant
help of the press enlisted.
A very important item in working up
society, Dr. Bennett considers, is to society, Dr. Bennett considers, is to
membership cards,
pencil
and arry membership cards, penci "Don't
hange, when enlisting members. "Don't
let them blufl you," he said. "They bt them bluff you," he said. "They
vill thank you for it later.'" He knew man who didn't know a sunflower from
hubarb to begin with, and the dollar membership fee had to be pulled out of
him. Now he is one of the most enhim. Now he is one of the most en-
thusiastic horticulturists 'in St. Thomas.' vegetables for a small lot. A paper on ""Vegetable Production on
30-foot Lot." by Mr.Geo. Baldwin, of Toonto, was a revelation in regard to th amount that may be grown on a very Mr. Baldwin said, had to be done before seven and after six, yet he had enjoyed
the work, and found it full of science the work, and found it foll of science
and interest. Gardening he had found a and interest. Gerd but knowledge is essen-
dolightful hobby,
tial to success with it. You must, it tial to success with it.
you will garden, learn how to fertilize
and how to fight bugs. In 191.2 he grew 82 varieties in his 30 - foot lot.
His plans were made His plans were made in winter, and num-
bers of plants started in a hotbed or in bers of prants started in a hotbed or in
a green-house. He preferred the latter
heated with a hot-water boiler. About ateated with a hot-water boiler. About
heate second week in March the earliest
the the second week in who lots of it
seed should be sown. Use lop and press down firmly. Keep moist, and
as soon as ready transplant into berryboxes. The garden itself shoun in tall
heavily manured and dug deeply in then in spring, raking will be suffccien Yor beets, carrots, parsnips, and saisiif,
All planting should be over by May 24 th or 31 st , gqverned by weather conditions. Sow syuash, marrow and Dig the beds ailts three teet each, dig in manure, and put ine soil on top. Scatter a fow Prepare the ground for tomatoes the ame way, but train the ornamental arieties along the fence. Alant and train osticks placed at an angle of 75 depens. When setting the fruit just as it lay the roots on a slant in the hole, hen fill in, thus to give more moisture Sow earliest onions March 10, and
ransplant May 10 into rich soil, 4 to 6 thansplant May 10 into rich inches apart. Hoe frequently, and feed the big onion hquid manure. Slaked prinkled among the rows will het Constant vigilance is the price of free reeping things, but the best way to avoid pests is to grow strong plant
Plants should never be sprinkled in the un, as brown leaf spots may be tho result. racting of this paper was followe by an interesting discussion in in spa many points for which
here were brought out.

In closing, may one express, as on
has expressed before, surprise that farn ers and their wivee are not more largel represented at these meetings. Per
should be Horticultural Societios every where in the country. Their presence
beautiful home surroundings, with all conception as by the beauty of his ma heir uplift; in cleaner roadsides, wlanted terials and exquisite nicety of manipula with trees (in parts of Europe fruit and tion. There are passages in his poems ut trees are used); in happier, because like clusters of gems,
gardening and fruit culture. Why, then, are there not Horticultural Societies in
all the rural districts ?

## Little Trips Among the

 Eminent.Canadian Poets.
 By Clayton Duf

THE OtTAWA SCHOOL.
$\qquad$ Duncan Campbell scott was born in
the capital, where he still makes his College, Que., and married an American
violinist, Miss Belle
W. Botsford. He Arequent contributor to periodical lit erature, has written a novel, and wai
one of the editors of the series of Canadian biographies, "Makers of Canada" He has published several volumes of
poetryo "Labor and the Angel," "The Magic House," and "New World Lyrics
and Ballads," the latter drawn from Indian sources and stories of early ad-
venture and exploration in America. venture and exploration in Amer artifcer
Soctt makes one think of an Scott makes one whose work is char-
in precious metals, whoh by vastness of

I thought of death beside the lonely That went beyond the limit of my Seeming the image of his mastery, The semblance of his huge and gloomy might.

But firm beneath the sea went the
great earth; With great earth, and adamantine hold water but a mantle for her That played about her splendor, fold

And life seemed like this dear, famillar That stretched from the wet sandé last wavy crease,
Seneath the seas' remote and sombr To inland stillness and the wilds of

## Donth teeme triumphant only here and

Life is there it soterelga prosence overy-

The characteristic charm of scott's poetry is a kind of refreahing quality. Its beauty is nevor hectic or intoxicat-
ng, but cool and grateful as is ttarttt ing, but cool andand spring.

When E. W. Thompson was a youth he saw service in the American Civil War. Fortunately for the happiness of his
readers, he survived that expertonce, bo readers, he survived and, as a colloague
eame a journalist, and
of his remarked at the time, was to the of his remarked at the time, was to the
Toronto Globe what Hamlet is to the Toronto Globe what Hamliet is to the
play of that name. Then he went to play of that name. Important editorial
Boston to fill an in
position on the Youth's Companion position on the Youth's Companion, and became noted as the author of some
clever stories. "Old Man Savarin". Wan
the title of a volume of these. Nownthevet itte of a volume of these. Nown-
days, Thompson lives at ottawa, acting days, Thompson lives at ottawa, acting
as the Canadiap representative of the Boston Transcript, and hi
Canadian oubs on Canadian pubilic questions are quoted.
There seems to be a tendency to over There seems to be a tendency to over-
look .Thompson in the Anld of Canadian pootry. Ho may not have been so con-
firmed a poet as some of his Canadian firmed a poet as some of his Canadian
contemporaries, but the quality of his
verse entitles him to high rank. When verse ontities him
reading such poems as ash rane", or "The "The
smeetest. Whistle Ever Blew," or "Wo Smeetest Whistle Ever Blew," or "We
Talked of Lincoln;" we have not to bo Talked of Lincoin,", wo have not ro bo
convinced that this is real pootry. but,
feel instinctively that a rleh perronality Ceel instinctively that a rieh personality
is speaking in tones that mastor ue. is speaking in tones that master ue.
Hazlitt says, that Irish oratory to alweys


The Prize Table
ored with orchids and smillax
neck, or coming down in the parachute, misfortune not unknown in Canadian
poetry; but Thompson is one poet who heer full control of his bialoon, and his
fiehts end even more skilluly than they tights end even more akiliflly than they
begin.
His poems, throughout, are rich

 thion of the it reader.
Tho April poem, which is quoted in part belowo reveais the thomponis style:
of
Ono day when April willows tringed Of arty yeara ago with freehening gold, with ${ }^{\text {machol }}$ tall grandsire of the wars His peacefal
pione pactul jack-knifo trimmed a rav Wicked doep the green and hollowed lout To thanhon for the child a willow fute,
His age exulting in the abrill delight; Tor so," he aaid, 'my grandsire made



To-day in mine a grandchild's balmy Eagerly thrills as toward the pool we go
"Now, blade unclasped, I akirt the marge
Ono witho trom
ing throng, The imperfect branches tacitily refuge.
To clip at and the wand without Ite knots I scan, the smoothest reach Cut $\begin{gathered}\text { Ind } \\ \text { true } \\ \text { are } \\ \text { around the tender bark }\end{gathered}$ ring,
Bevel the end artful tip the rind,
Draw out the pith, and shape thi Bover the end and pith,
Draw out the
chambered thing. Exactly yoi, as long ago, as this, Mn grandire did when he would bld

" Now Billy snuggles palm again Over the hills,' he blows, 'and far away
O, O, pipe of Arcady, how clear and fine
Thy single note salutes the yearning The breeze in
The breeze in branches bare, the whist-
ling wing,
subtle, bubbling frogs, the blue The quivering soll, sounds of ever - piercing The quivering s. $\begin{gathered}\text { spring. } \\ \text { That one thin, willow note, attunes then }\end{gathered}$ And, far and near at once, I hear
The sweetest whiste ever blew. Lilting again the olden strain,
And all the world is new."
Hope's Quiet

## Hour.

God Does Not Forget.

God does not forget any work of love.
Why? Because the work of His children Why ? Because Hise work ory heart. Even
is y yery
dear then

 Wherever he went. a tiny note which his
wifo had writen to her mother when she wirg had written to
Was My Dear Mamma,- Will you plenge ask
God to make me a better little girl ? ood to make me a better ittle girl?

That artless appeal. showing so plaln'y
 $\begin{aligned} & \text { Giver of every good gitt. was never for. } \\ & \text { gotten } \\ & \text { by God. }\end{aligned}$ He had millions oot goten by God. He had millions of
prayers to answer, but that one reelved prayert
full attention.


 stren
haps
a br
mone
mer
 that Good would provido. Another ollar
has boen spent on ohicken and other
thinge

 abreak-down. Probably the rest of the
money will bo also needed in that lititle
home
 This ior not or or publicamition, as she ovi-
dontuy wishes ot give secretly but $I$ have deatly wishes to give gecrotly-but 1.
a very special roason for aeking.


 it is ivery posible that her yeer's im-
prisonnenat may not
aikect her
 otherrabout her, as it might encourase
those whe have far less to complain those who have tar less to complain
about to bear their troublee cheertully.






Jim Larkin, the Eritish labor leader, at his deakk,- the rough dock laborer to
whose fiery eloguencese tens of thousands of people have listened during the past whosi fiery eloquence tens of thousinds of people have lisened during the past
fortright.
Times.
 Cournage many to tousands and poopper
Do you ever go on with a work Do you ever go on with a work and
labor of love, feeling just a lition dias labor of live, leoeling just al littlo dip-
couraged because no no me siems to ap preicite the efort you aro making?
Lisan to this otory a Listan to this story, A lady in Eng-
land, who is very talented, does a groat deal tor the giril in a v vilage near iier homp. Arriend of hers once told Bishop
Colline that this splendid woman asemed to run somewhat to waste, living so far out of the world. Then she desscibed hov, even on a wild winter's night,
lantern would come glancing down the long, steep drive, and the lady of the manor would trudge to the village to
hold $a_{\text {G. }}$ G. F. class, which very

 was any waste of of material. "TThink
of the angels," he gaid, "they all wee of the angeles, he said. they al yeer
her and understand all about at and call
to ench onther
Come and look at
 dear Mrs. B. Eginy down to Brough to
alt this snow,
tell then he went on to tell this story about the venerable Bedo
It befell one day when the venerable "It befell one day when the Venerablo
Bede was old and blind, that some sora Bedo was ond and bind. that some bors
came to him and siid, Come, o ven
erable Bede, and preach erable Bede. and preach, tor all the veo
ple are waiting tor thee: hut they ple are waiting for thee'; hut they waio
ribald boys, and knew ihat the pooplo
 weep,
joicing. We me may find it dititcult to be be so really intereatcd in our neighor or hat
we are glad when things go will with
 happiness. Perhaps you have some
secree joy which you long to tell to a secret joy which you long to tell to
triend who will real y cure.
One tis too occupied with his own arfairs to give you
nyything but scanty cannot understand, because your experit enco has never bien his. Your at empt
dd explat in expeanations And mert you noed and werth bend ing sympathy
God never forgets our need of sym pathy, and thereftro Ho He ceane into symi
world to stand beside us always worrid to stand beside us always. Take
your joy to chrit as you take your sor-
 hands in His, look up into His tace an
do not miss IIs smile.
He cares.
 Thee The Lord thy God in the midst
then



Fashion Dept.



2114
TheBeaver Circle
Our Junior Beavers. [For all pupils from the First Book
Junior Third, inclusive.]

Johnny Mouse and Susie Rat. Johnny Mouse and Susie Were very bad indeed;
To Mamma Rat and Mamma Mouse To Mamma Rat and Mamma
They paid but little heed. They would not wear their rubbers When they went out to play;
They would not go to bed at night They would not go to
They often ran away.
They would not learn their lessons, They would not would not go;
To school they
And well-behaved young rats and mi And well-behaved young rats and mice
They did not care to know.

So Papa Rat and Papa Mouse, They spainked them every morning,
Anid spanked them every night.

In spite of all these spankings, The naughty things grew fat, They'd make a toothsome
Salid Granny Tabby-cat.

She hid behind the pantry door-
But Susie Rat and Johnny Mouse But Susie Rat and Johnny Mouse
Have gone,-can you guess where

The Two Ducks.
A story
written for the lit Once upon a time there lived a king and queen in a beautiful palace. They had three , little children, two little boys
and a little girl.
his ding did not like
his two eldest children, Helena and Don-俍 ald, but of little Walter he was very.
Cond; he would do anything for him.
This made the queen very sad, as she This he would do anything the queen very sad, as she
This mead tond of all her children. They
was very fon was very fond of all her children. They had everything a child could wish to
have, dolls, books, trains, rocking-horses,
and such like They went out driving have, dolls, books, trains, rocking-horses,
and such like. The went out diriving
every day in their little pony carriag very day in their little pony cartict
that was intended for them. This wic
king was a kind of magician; he co king was a kind of magician; he c
chauge thīings into difererint shapes. day while the children were playing to-
gether he was thinking of a plan to get
rid of Helena and Donald. So he sent Walter away with $a$ message to his
mother, and while he was gone he just mother, and while he was gone he jus
touched the other two and changed then into two beautiful ducks. "No."
thought, "I shall be rid of them." When little Walter returned he asked
where his brother and sister had gone where his father told him they had gone to the nursery. No more was said aboul
them till tea-time, and the queen asked
where they were, and Walter said his where they were, and waler said his.
papa told him they were in the nursery.
They went up to call them down, but They went up to call them down, but
they were not there. The king, queen, they were not usere. Searched for them,
and all the houshold s.
but they could not ind them. The but they could not find them. The
wicked old king pretended to be very
sad, but all the time he was rejoicing secause he'd got rid of them. He got to be more and more fond of
little Walter; he would take him wher-
But Walter was not ever he went. Suld lie awake at nights thinking how he could find his brother
and sister. About a week alter, Watiter
was feeding the ducks, when he noticed amongst them two, more beautiful than the rest. He ran and told his mamma
and papa. The king ordered them to be and papa. The
killed, as he knew they were Helena and
俗 Donald that he had changed in of it, so
But the queen would not hear they were allowed to stay. They were
more gentle and timid than the rest; they would feed out of Walter's hands,
the and let him caress and pell them his two beautiful pets une day he went out as usual, and, to
One rying, and his mother asked him what was the matter, and he told her. Sh
tried to comfort him, but he would not be comforted. He went to bed that
night a very sorrowful little boy. Firs thing in the morning he went out to see he could seo t
Well, little Walter grew up to be
fine, handsome boy, loved by all wh

 seek out his brother and sister, so he left the palace and set out. He travelled
and travelled, but never came across and travelled, but never came across
them. He had many delightful sights to
see, but best of all he loved to watch see, but best of all he loved to watch
the ducks, thinking his two beautiful pets
would be amongst them, but he never the ducks, thinking his two beautiful pets
would be amongst them, but he never
came across them. After two or three came across them. After two or three
years
yied a travelling he came home and married a lovely bride. They had a lovely
little baby born to them, and were as little baby born to them, and were as
fond of it as Walter's father, was fond of him. When Beauty was five years old, she used to go and feed the ducks for her
father. One day she came running in, "Oh, mamma, papa," there are two more new ducks, and, mamma, they will reed,
out of my hands and let me pet them." out of my hands and let me pet them."
Mother and father went out, and, to
Walter's surprise, they were the very Walter's surprise, they were the very
same ducks he saw when he was a little boy. But still more surprising, one of
the ducks spoke, and said they were walthe ducks spoke, and said they were Wal-
ter's lost brother and sister, but could not get their human shape unless they
had some kind of stuff poured on their heads. This ointment was difficult to
get, but they managed to get somee and put, on the ducks' heads. There was
much resoicing among them. But they all lived happily together afterwar

## the little fisherman

 (By Viola Seabrook.)Once upon a time there lived two girls and a little boy. They lived in the woods. The girls' names were Bessie Bessie was twelve years old, Lily was nine, and Johnny was seven. One day Bessie said, "Johnny, you go and catch some fish for dinner," so Lily got some bait for his hook, and away Johnny dropped his hook in and caught one. He kept getting them like this till he had eight trout and two pike. It was about
eleven
o'clock.
Johnny started home carrying his fish. "I wish I'd left them in the river," said Johnny. "Why
oung man, where did you get the fish?" young man, where did you get the fish?"
asked a man who got over the fence just asked a man who got over the fence just
then. My sister told me to get some for dinner," replied Johnny. "You bet-
ter let me carry them 'lor you," said the
""All right," answered Johnny, man. "All right," answered Johnny,
and handing him the fish, which were strung on a string, they walked on till
at last they came to Johny's gate. at last they came to
"Good-bye,", said the man. "Good-bye;
I thank you for carrying my fish," said

Johnny, and he walked up the lane, but
belore he got there, Bessie camee to meet him. When she saw his fish, she said.
"My own Johnny!" Chatsworth P. O., Ont., R. R. No. 2.

Junior Beavers' Letter Box
Doar Puck and Beavers, -I have been
an interested reader of your Circle, and like it very much. I am very fond of reading. II have. read the very fond on named,
"The Little Cruaseders," "Miildred's Ne" "The Little Crusaders," "Mildred's Now and I am reading "Handy Andy." I go to school every day, except when I am sick or it is raining. My teacher's name
is Miss McGill. I was away during the holidays at my Cousin Freeda Cunning-
We have a little colt: we call Freeda. Well, I think I must close now
What and leave room for the other Beaver
so good-bye.
ETTA SPEER. ETHA SPEAd-bye.
Caledon, Ont.
(Age 8, Class II.) Dear Puck and Beavers, -As this is my
frst letter, I am just going to write frrst letter, I am just going. to write a
short one. I like reading your Circle
very much. I live on an eighty-five-acre short one. I live reading your eigeacre
very much. I
farm. My brother and I ightye a pony we call her Daisy. She is very kind Our father bought us a buggy a year
ago. I have a little baby brother; he is a year and a hale old; we call him
Russell. My father is a farmer Russell. My father is a farmer and
horsebuyer. We have a pair of oxen. horse-buyer. We have a pair of oxen.
There is an old pussy at the barn with two sweet little kittens. I have thrbe-
quarters of a mile to walk to school. quarters of a mile to walk to school.
Our tearher's name is Mr. Benson. We play red line, drop the handkerchief, and
blind-man's buft. As my letter is get-blind-man's buff. As my letter is get
ting long enough, I will close. ting long enough, $\left.\begin{array}{c}\text { I will close. } \\ \text { VERA LEOTSS CRUSE. } \\ \text { (Age 10, Sr. II Class.) }\end{array}\right)$ Bewdley, Ont., (Age R. R. No No

$$
\begin{aligned}
& \text { Dear Puck and Beavers, }- \text { I have been } \\
& \text { an interested reader of "The Farmer's }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Dear Puck and Beavers, }-1 \text { have been } \\
& \text { an interested reader of .The Farmer's } \\
& \text { Advocate" for nearly to years, especial- } \\
& \text { ly the Beaver Circle. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Advocate" for nearly two years, especial- } \\
& \text { ly the Beaver Circle. } \\
& \text { I had a garden of my own this year. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I had a garden of my own this year. } \\
& \text { I planted onions, peas, beans, and corn, } \\
& \text { and they grew beautifully. I also had } \\
& \text { a fower garden. I planted asters, pop- } \\
& \text { nifo nagturtiums, and pansies. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { a flower garden. I planted ast, } \\
& \text { pies, nasturtiums, and pansies. } \\
& \text { I live on a big farm, and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { pies, nasturtiums, and pansies. } \\
& \text { I live on a big farm, and I love the } \\
& \text { country. Wishing the Beavers every } \\
& \text { success. } \\
& \text { sutce BAMFORD. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { country. Wishing the Beavers every } \\
& \text { sucess. } \\
& \text { suncey, ont. } \text { AIICE BAMFORD } \\
& \text { (Age 11, Class III.). }
\end{aligned}
$$

Muncey, ont.

Dear Puck and Beavers, -My uncle has
aken '"The Farmer's Advocate". for over taken "The Farmer's Advocate" for over
Corty years, and I Iike to read the
ories. I have a little pup which like stories. I have a little pup which likes
me very much, and his name is Ben. He
would like to mat


The Joy of a Christmas Doll.
back. I take him out in the garden
when I go to plick the pears, and he will ry to get them before me. We go to get the cows every night, and we will
make them run all the way up to the make them run all the way up to the
barn, then Ben whill chase ouu. He likes
to have some fun, and when you begin to have some fun, and when you begin
to run he will run after you, and ie oy
ate stop he will stop and jump up at you.
He is only a litule pup, and he will not He is only a litle pup, and he win no
hurt you. I have a little pony, and I
oo out and give her water often. I go out and give her water often. I Ig
up beside her and give her something t eat. Wishing your Circle every succes. your faithul reader,
FLORENCE BURNS (age 10, Sr. II). Florence burn
Richwood, Ont.

## Honor Roll.

Etta Arnott, Almonte, Ont.
Beulah Bailey, Manitoulin Ioland Verna Vansickle, Ancaster,
Stella Cann, Exeter, Ont. Stella Cann, Exeter, Ont.
Cecil Baxendale, Grand Valley, ont. Cecil Baxendale, Grand
Eva Secord, Simcoe, Ont.

## Passing "Colds" Around.

 We shall have to stop passing that"cold" around. Everybody now agrees "cold" around. Everybody now agress
that "colds". are contagious, regardloss
of contributing factors. Many health
departments now require physicicans to departments now require physicians to
report aall cases of pleurisy, just as
diontherif report all cases of pleurisy, just as
diphtheria or pneumonia, other members
of the indoor-plague family, are reportof the indoor-plague family, are report-
ed; and this action has given a great ed; and this action has given a great
impetus to the campaign against the
great indoor plague. great indoor plague.
By "indoor plague".
By "indoor plague". we mean the much
too common "cold." It is so positively too common "cold." It is so positively
an indoor infection that good authorities
declare we cannot possibly an indoor infection possibly catch any of
declare we cannot
the respiratory diseases out in the open the respiratory diseases out in the open.
Proximity to a "cold" sufferer indoors is Proximity to a "cold suferer indoors is
essential to the production of fresh cases of coryza ("head cold"), sore throat,
tonsilitis, quinzy, bronchitis, pneumonia, tonsilitis, $\begin{aligned} & \text { quinzy, bronchitis, } \\ & \text { diphtheria, } \\ & \text { tuberculosis, or }\end{aligned}$ preumonia,
pleurisy. That is, proximity to a careless patient.
The reason why these diseases cannot The reason why these diseases ceannot
be acquired outdoors, regardless of the be acquired outdoors, regardless of the
weather. is that the well -recognized
causative hateria causative bacteria cannot survire outzide
the body in a cold place or in direct the body in a cold place or in direct
sunlight. Nothing is so hateful to a pneumonia germ, for instance, as snappy, cold air, or bright sunshine.
This pneumonia germ, called the pnewThis pneumonia germ, called the pneu-
mococcus, is the worst enemy of civilizamococcus, is the worst enemy of civiliza-
tion today, causing more illness, discomfort, and deaths, than does the nois it the seed of pleummonia in children
and adults, but also of most caid tansilitis, , buthey, also of most cases of
tormple "head cold,"" pleurisy, chest abscess; and a

## ——





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West Toronto, Ontario

$\left\lvert\, \begin{aligned} & \text { greatest respect is shawn, and they } \\ & \text { spealk of their departed reverentially, } \\ & \text { and in hushod tones. They care tender- } \\ & \text { and }\end{aligned}\right.$ and in hushied tones. They care tender-
ly for their sick. and after doath the
remains are placed in coffins, handsomeremains are placend in coffins, handsome-
ly carved and decorated on the top of
trees. ly car
trees.
Marr Marriage is a Restive occasion, in
Which all join marrily. Which all join marrily. After a short
trial union, it the contracting parties
agree, they go through a peculiar native agree, they go through a peculiar native-
rite, and the couple continue to live to-
gether, esemingly happy, until death. gether, seemingly happy, until death.
Loin cothes form the only article of wearing-appariel ised by the natives,
who are, I beliave. more modest and who are, I beliave. morit modest and
morath than many civilized peope in
metropolitan centers. Their time is consumed
generally in raising rice or
hunting. The women work with the
men. take care of the rooms in the men. take care nf the rooms in the
"'long house," and carry water and fire-
The men. arred with apears or
long steel blades akilfully made of metal wood. The men. armed with spears or
long steol blades ariflully made of metal
ore, will go on hunting expeditions or
venture sorth ater the hell venture lorth after the heads of some
rivals against whom they have a griev-
ance, and reman six or nine monthe. nnce, and remann six or nine monthe.
For all their wild surroundinge, the
natives are usually keen and eager for natives are usually keen and eager for
learning. They like to talk and ask learning. They like to talk and ask
questions, and. though they have no
written Written language, are anxious to learn
of strange lands aiod people. They are
 this combination many die of blood-
poisoning. Special designa are arrangeld
for the neck, the shoulders, the arnus, the chest, and the legs, each tribe have-
ing its own emblems. While the men ing its own emblems. While the men
are tatooed at various phaces over the
entire body, the women are distinguished
by etrange-looking emblems extening
 from the waist to the knees. The en-
tire process take over ten years, and
the pain suffered is intense. To provide for further ornamentation
a child, on reaching the age of
months has the lobe of the ear pun
mont tured and a a stick lobe of the eared. More punc-
tuplin-
ters of wood are gradually added, until
at the age of twn years a circular unas of splinters can he seen in in the childs
ear
euve inches in diameter, and having
but anin rin dit but a thin rim of flesh about having A
little earring is then inserted, and larger
lines gradually added until the Ones grarring is then inserted, and larger
onded until the child has
reached the aye of 13, when he has
the ing to his shoulder.
Anxious to press on, I sent my ori-
And ginal guides hrack because they were
afraid of a tribe of especially savage afraid of a trihe of especially savage
head-hunters who lived in trees some-
what farther intn the interior what farther into the interior, and pro- me me
vided with an new band oo volunteers, an
lett the villaage where I had been so
eryally treated. By following royally treated. By following the river
route in crude. native canoes, my pro-
gress was experited, but the heat was so intense, that it was necessary to jump
overboard about every hall hour to pre
vent a heat stroke. Als the river was
vell of mane
full full of man-eatink crocodiles, there was
considerable risk. but the danger was minimized by the natives, who kept
splashing the oaddales. in that that way
trightening the crocodiles away.
Leaving our cances, we resumed again Leaving our canoes, we resumed again
our inland travel. through a wilderness
of palm and beetle-nut trees from 3o of palm and beetle-nut trees from 300
feet hish and five feet in diameter to
smaller trees but 20 feet high. The un dorbrush was still dense and heavy, and
it was impossible to see even our feet.
Thorns and vine wwere encountered, but
the greateat scource of annoyoncere was trom the woor leeches, one to three
inches in length. that would drop into
your shoes or over your body your shoes or over your body. The The
ysing was accompanied by a persistent. sting was accompanied by a persistent
burning sensation. like that from a red-
hot iron. While not poisonous, an itchhot iron. While not poisonous, an itch-
ing
irritation develps that continues for months afterward. We found it
very difficult, owing to the jungle wild-
erness, to obtain the specing erness, to obtain the specimens we were
after, but by chopping trees and clearafter, but by chopping trees and clear-
ing a path, I managed to get about
100 snakes, frozs, and lizards ing anakes, frogs, and lizards, and my
100 sum
persistency was subequenty
rewarded persistency was subsequently rewarded
by the finding, in their deep, isolated
jungle lair, my much-sought-after "cloud-
jun ed leopards."
My native escorts, who were ahead of
me, suddenly turned back in evident me, suddenly turned back in evident
fear, and peering ahead, I discovered fear, and peering ahead, $\begin{aligned} & \text { discovered } \\ & \text { rude. thatched huts in the treas, but a } \\ & \text { shiort distance away, the homese of the } \\ & \text { fiercest. yet most cowardly, savages of }\end{aligned}$ $\left\lvert\, \begin{aligned} & \text { entire Borneo: and it was with much } \\ & \text { difficulty and conxing that I could pre- }\end{aligned}\right.$
vail upon the natives to go forward.
My presence ceaned much excitement
among the treesdwellers, who peered owng with theorir shellers, who peered yes, but their wonderment soon gave subjecting me to an examination siminila o that I had previously received. My rife was to them also a cause of much wonder. They treated me kindly, yer
they were palpably of a lower order they were palpably, of a lower order
and more animal-like, than those of the
villaze viliage I had previouesly visited. They
were somewhat smaller, wider, and, troil were somewhat smanller, wider, and, from
the rows of heads that were weirdl drying over a fire. much more savage tire Jaws were tatnoed with hideous de The main weapon of defense was th
deedly "blowpipe." deadly "blowpipe," through which ar
rows, with poisoned tips, can be blown
with deadly accuracy a hundred thet a singleady accourcuracy a hundred feet in of these arrows home. They are about ive inches long, as thick as a match,
and have piston and appliance for
atching the air when blown and catching the air when blown from the even-10ot pipe uned by the savage. So
expert are the Dayaks, or tieo-dwellers. in their use that they can hit a bird on the wing, or invariably strike a vital
spot of a wild hoar or a human being.
The virulence of the poison at the tip The virulence of the poison at the tip
of the arrow is much that death will re solt in seven seconds. The poison io The Dayaks alon have long, narrow stiletto-like blades. made from steel ure, and thee are user generally in their at
tacks on rivals at might. Their desire for the heads of rivals is fanatical. With characteristic cowardice, they will
make their attacks generally under cover make their attacks generally under cover
of darkness, or when a rival tribesman has his back turned. Old men working
in the rice flats are often the object of in the rice flats are often the object of
atteck by the savage Dayak, who will suddenly dart out. slash off a head, fitit
backl into the woode, and be gone within a low seconds. Heturning to hls vil-
lage, he will triumphantly display his gruesome trophy and will be acclaimed
a warrior forvith. Belore he can marry or be considered
adiult, the Dayak muat bring home at least one head. The more he obtaine
the higher is his standing in his villese the higher is his standıng in his village.
The night before I arrived five rival The night before I arrived ave rival
tribesmen had heen deapitated, and
their heads were heing subjected to the drying process whea I made my appoar-
ance. One of the favorite methods pursued by the Davak in acturifing his
trophy is to wait in a tree until trophy is to wait in a tree until as
memiber of another tribe ciances to pass, member of another tribe elances to pass,
and then suddenly drop upon him.
Their most highly prized trophy, howTheir most highly prized trophy, how-
ever, is the head of a Chinaman. Many
Chinese arrive in Horneo Chinese arrive in Borneo as rice work-
ars, and frequently penetrate far intw the interior, whero allosot certain death awaits them. So great is the glory of
taking a Chinaman's head and pigtail that a special feast is arranged in
honor of the warrior who has parformed the deed. me probably saverl my life and hadoubt-
edly saved the lives of of my fifty-two edly saved the lives of of my fifty-two
native oscorts. for they were from a
ival tribo rival tribe, and nothing else could have
saved them from swift and merciles saved them from swift and merci
death.-From the Literary Digest. Share your roses. A tourist brings this pleasant story At Skibo Castle Mr. Carnegie had a thoutiul rose garden. There were
roseands of red and white and yellom roses always blooming there, and the garden were free to saunter in the One day the head gardener waited on Mr. Carnegie.
"Sir, I
I he ventured. Well, sir, I wish to inform you that
tho village folks are plucking the roses
in your rose garden. They are denud-
in in your rose garden. They are denud-
ing your rose trees, sir." satisfaction in Mr. Warnegie's voice, "so my people are fond of flowers, are they,
Donald?
Then you must plant more ! "What are you thinking about ?"
.Just nothing."
ndecaber 4, 1913
News of the Week

## - camadas.

A doputation roreaeating the Women's


prature valued at 8 8,, 75 have been



 Sad Mise Florence Carislo.
Nine unidentifed victims ot the reeen lato dinatater were burlea at K Kit

Tho ath oliection withn two years in
 merrative candidatate, over John w. .riaid
 tornty wes

$$
\begin{aligned}
& \text { british and foreican }
\end{aligned}
$$

Miss Forbes-Robertson, a sister of sir
Hhis orberforeat ton, the tamous actor,
Blimingham, in July.

A Ballad to a Friend Rocro in nead was 1 ot drathat trien Wart domie toit moen hesired endI had seen the benuty of tairy thirge,
And sean the women walk; Lat harard tho voie or the
And and
aft the wonderal talk
 Sut hand.

 One comes to understand
How He turna the deaert duat
 TTwas in suat hach anemod hour sood plocect Tho mineonbeam hand of ofriont

$\qquad$ $\therefore$ Reely rich woman, who was antion





THE FARMER'S ADVOCATE

## BABY'S OWN SOAP



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are using Baby's Own Soap in the nursery not merely because they themselves were washed with it, when infants, but also because experience has shown that no other soap will help the skin so much-make it so white, so smooth-be so pleasant to use-and cost as little.

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## Winter Song.

## Gift Furniture

Mandrove Catalogue No. 7. Catalogut No
 With tolavis


Furniture Company, Ltd.o Toronto It Might Be Well ol of of any the Prospectuses before sending your daughter to any.




$\qquad$
By Duncan Campbell Scott.
me a song of the dead world, If the great frost, deep and stili,
of the sword of fire the wind huried at the sword on the fron thil.
 Where tro the theeted wrathe ike ghoote ga Through the gloomy rtit: Sing mea ang oit the ringing biado, soon Tha makees and aving ot the anom-thoo ${ }^{214}$ Through the colare bratee Sing me a song of the apple-1oft.
of the corn and the nuts and the mounds of meal, And tho epliming min



 The aurore darting sutp phos.

## Mockers.

By Louis Vntermeyer.
eturn to you on Aprit daye God, I return to you on Aprit dayy
When along country roads you wall When along me:
with me me maith blonsome like the earlicet tree the meak world with ite yellow sprays-
My faith revives when, tbrough a rosy
 My faith revives when, tbrough a rosy
haze,
, The elover-sprinkled hills smile quietly,
Young winds uplift a bird's clean For this, on God. my Joyousness and But now-the crowned streets and chok-
ing airs. These, or ort; the nverbrilliant thorougbfares,
The toolloud laughter and the emply
shout;
The mirth-mad eity, tragie with its For this., o fiod. my silence-and imy
doubt.


Cunard Line canAdian service Immigration Department Special interest to Farmers' Clubs. We secure "help" for farmers from
the country districts of the the country
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about six weeks.
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##  <br> Advertisomento pill be inserted under this heed   A FEW female Scotch Collie puppies at $\$ 3$ each EXPRIENCED Stockman by year, married Ceapabe of manaxing the farm, referent apply: J . H. Patric, Ilderton, Ont. Wanted immediately-Second-hand churn Also a Farrington Pasteurizer if in inood conditio The Scotland Creamery, Scotland, Ont.



## 120

THE FFARMER'S ADVOCATE.

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MADE BY THR COTTAGERS OF BUCKINGHAMSHIRE.
This is the old-fashioned lace made on the cushion, and was first introduced into
Fnoland by the Flemish Refugees. It is still made by the village women This is the old-fashioned
England by the Flemish
in their quaint old way.





## SHIPUSYOURCREAM <br> WT $\begin{gathered}\text { Supply cans and pay all express chargee } \\ \text { within a radius of } 100 \text { miles of Berlin }\end{gathered}$ Send a statement of each shipment. Pay every two weeks. WRITE FOR FULL PARTICULAR <br> THE BERLIN CREAMERY COMPANY berlin, canada


 and kneel
grounde
in with
tioned th
stuck thei so that I can begin to plank
down and get close to th
Yosterday when the boys can tioned thery, I I frithy faces, and I ques
stuck that they had
piek their precions pies, essaying to play mole and burro
literally." same mystery as the sweat ing his letters. in a $a$ heap and tossing
ing
them patiença : ". "none of us may eacape eve
thoush ime patipnct; " "none no us may escape, even
though we do not. understand it. "It was years ago that I first heard
the legend from the legend from an old farmer of the
corn belt, who. longing for a sight
salt salt water, had drifted eastward into one
of the little hill farms coal camp. He harms beyond the charnearly all winter. but been bedridden
his wife his wife and daughter-in-law caring for
him, and it was not part of May, when all the world early
growing green, growing green, that he began to mend
and at the same time groan at his cott
anement finement. that the worst was over, and that he he
soon would be theut soon would be abcut avarain, and that he he re-
plied : "Trin't me that's doin' of it, Doctor; hit's the sweatin' of the corn.
You know everywhere in May folks be
Nontin' phantin' corn, the time bein' the sign
that frost is over and done with. naterally there's lonts of corn in ear and and
shelled and ground to meal that isn't plantad, and along as when the kernels
in the ground negins to heave and sweat, and if it isn't handlead caraful-
like. and taken in the air and cooled, it'll take on all sorts of maulds and
musts, and like as not turn useless.
hold it's just the hold it's just the esame with foskess., when
springtime comes they fetch up restless and need the air and turning out to
sweeten in the sun until they settle sweeten an the sun untturs they sethe
down again, else their naturs turn sour,
pisen'us, and unwholesome, breedin, "Since then $I$ 've heard it here and there in other words, but always the
same motive, thie old miller holding it all fact and no legend at all, sayin
that if he can keep his surplus cor
from sweating Crom swating and well aired through
May and June, he never fears for it in
the damper, more potent. Auge the damper, more potent August heat.
One thing is certain. that in my practice
in countryside strange doings hraike out and restles
discontentment arises, it is never
winter. when I should arpet.
torpitit. torpidity to breed unrest, but in the
pushing season of renewal, and, as the
old man terms it. "corn and old man terms it. "corn sweating." A little later I was going toward the
garden when father called after me me
say that he was coon tarter say that he was soon starting for a
long trip, quite up to Prine Ridge, and
that. if I cared to go, taking a lunch for hoth, it might give me a chance t
"turn and sweeten" in the sun and cur
my restlessness with natural notion.

 that it was two hours since they loft
the breakfast tahlo in their brand-new
sit sailor suits, with the intention of show-
ing them to her.


Trade Topic hand-made lace at low prices Every woman loves beautiful lace, but
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The lace made by the rural villagers Bucks, Beds and Northants, England, i
boch beautiful and reasonable in price
 nest phow, and table - covers, ar
handkerchiefs, and articles made, in addition
among the articles. lace by the yard. If you want to fin
out more about these bealliful hon out wore about ond a poitcard to Mrs,
manufactures , ond
Armatrong, Olney, Bucks, England, and she will be pleased to send you an iflu
trated booklet with all information.


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## Learn Dressmaking

 $\mathrm{T}_{\text {cont problem of fall and winter, sewing now }}^{\text {confonts every well-regulated }}$ houshold. its original style and fitt, yet it has been endured
year atiter yax, because of the mistaken idea that
there was no one to help you, so you could cut Chere was no one to help you, so you could col
Chooe garnents that thel would not reuire thosi
tedious futing
remedy tedious fit ings W A Cutting Course rith us
remedy in ill
waist to most e elaborate every thing, from plaine waist to most elaborate dress.
formate for free booklet, which giliso terms for our lessons.
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furnish remit for each shipment. We ale
furrish cans and pay the express
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100.000 rods
60,000 Wire Fencings. Barb Wir Kgo .hno other bargains at $1 / 1 /$ to $1 / 1 /$ less tha imperial waste \& metal co. Stallions $\begin{aligned} & \text { for Sale-Two good young horsee } \\ & \mathrm{a} \\ & \text { Clydesdale } \\ & \text { and } \\ & \text { Percheron, to }\end{aligned}$ motchers and qod stock horses; wish ter thang
the blood as as have had them since $23 / 3$ years old



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cate," worth, retail, $\$ 1.00$ each. cate," worth, retail, EACH KNIFE.

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SET STAGHORN CARVERS


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Questions and Answers.



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## Mbeallencome.

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Would you tell me the names of a few fertilizing companies, as I understand
there are such companies making fertilizing goods out of hardwood ashes, and as
I have a fow carloads of ashes on hand Iou would do me a great favor if you would send me a few addresses of some
firms that use hardwood ashes? F. T. firms that use hardwood ashes? F.T.
Ans.-We can only reter you to our ad$\underset{\substack{\text { Ans.-We can onl, } \\ \text { vertising columns. }}}{ }$

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subscription rates of the papers devoted subscription rates of the papers devot
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LMMERMMN.
Ans.-Canada Lumberman and Wood-
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Vancouver, B. C., \$2.

## Gossip.

The four Clydesdales owned by R. B Pinkerton, and illustrated in the Novem-
ber 13th number, are all the get of one sire, Kier Democrat.
oakland shorthorns. Every year shows a marked improve
ment in the young things bred in the noted, deep-milking Oakland herd of Joh
Elder \&e Son, of Hensall, Ont., sired by their splendidly - fleshed and good-doing bull, Scotch Grey 72692, a grandson o
Imp. Golden Drop Victor, and out, Imp. Lady Jane, of the Lady Ytha
tribe. He is a roan tix. he is a roan six-year-old, beef
to the heels, and his wealth of flesh is
evenly put ond sire, and is on now He is proving a gale. Aneather bult Mor sale is the red four-year-old, Red
Baron 81845, by the previous stock Count Sylvanus 56900 , a Marr Flora.
and out of a Lady Waterloo dam. is a bull of great substance, and just
suited for getting big stock cattle other is a red yearling, Sir Victor 90602 , by Scotch Grey. and out of a dam tracthe herd are of this strain, and their size and milking qualities make them the
ideal for the ordinary farmer. Another choice young bull is the red, ten-months-
old, Gladstone 2nd 90603, by Scotch Grey, and his dam traces to Young Mary
(imp.) 557 . Many of the herd are this. strain, and, like the Ledy Jane
strain, are big, heavy cows, and extra
ind milkers. The bulls mentioned are all
for sale, and their present-day desirable
 and popular hady Waterloo tribe, and
others again others again trace to Roan Duchess
(imp.) 460, and to the well- known
Lavinias. This is the kind from which the big -milking Shorthorns that was being hand-milked was weighed
for two months, and she gave 2 ooil Among the big lot of two--year-old heif-
ers on hand are some exceptionally choice ers on hand are some exceptionally choice
ones. ine, a roan, of the Lady Jane
tribe, if fitted, would be bard to beat in
the blg show ring.

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Comber 4, 1913

## THE FARMEK'S ADVOCAIE



The Farmers' Institute The Country Woman, Boy and Girl.

 wege, at the American Aesocicition ot

 tiones, there is sormenething in it tor ua. Prot. Kernedy suvgrests somo remedies Which are worthy of thought. 1 Farmers' institute work, in its various forms, has been of untold value to the
Amarican farmer. Through this agency Amarican tarmer. Through this agency a great stimulus has been given and very and live-stock production. New and very
helpful meihods have ben introduced. A great deal of altention has been given
to the importance of using all the modern Conveniences, such as inproved machin-
ery and convenient barns and stables. ery and convenient barns and stablew
Advantage has been taken of every new
device device which would tend to the comfort
of the animal or to lessen the labor of
 animals have been given priority ove
the country woman, the country boy, and

 square deal. We will never make much
progress in solving the problem of why
the boys and girls leave the farm until
we eliminate the chief causes for their
 Judgment, more than ninety per cent. o
the boys and girls who leave the farn
"|lis Delicious Drawing Пualities"
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pean orders. If you ship to others we must buy your furs from them. We pean orders. If you ship to others we must buy your furs from them. We
must pay them a profit on your furs. By shipping direct to us you will must pay them a proft on your furs. By shipping direct to us you will
get thisextra profit yourself. This means far more money for you. We guarantee to satisfy you. We pay all express charges. Write at
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and go to the towns and cities, do so
beeause of the drudgery and seclusion Which their mothers have been compelleed
to endure. During my entire life I have been very closely identified with harm conditions.
I have seen all sides of the same, thes I have seen all sides of the same, thus,
I feel fairly well qualifed to sue I feel fairly well qualified to suggear
some of the fundamental reasons as to why the country woman, the country
boy, and the country girl, becomes disboy, and the country girl, becomes dis.
satisfied with farm life. They are follows : 1. The great amount of worls which
is drudgery, due to the absence of laborsaving devices in the homes. 2. The
lack of social priviloges. 8. Inadequate and miedirected educational facilitieg. 4. The decadent condition of our country churches. 5. Impaseable condition of
our country roads at certain seasons of our count Where such conditions prevail, and 1
am sorry to have to say that they are
far toe common, you cannot blame the far toe common, you cannot blame the
women and the children for wishing to women and the children lor wishing to One of the greatest problems before our One of the greatest problems before our
American people for solution to-dew is the making of country life none liveable
and tascinating. in and fascinating. In $18 \% 6$, al.uost ninety
per cent. of our people lived on the per cent. of our people lived on the
ferms, and but someme ten per cent. in the
 Chirds of our people live in the citiee
and towns, and but barely one-third the farms. Since 1900 , our cities and Lowns have gained three persons for
every one gained by the rural districte every one gained by the rural districte
At the present time we have too foy At the present
producers of tood products in proportion
to the number of non-producers or consumers. In the years gone by, the groat
problem was to dind a foreign market for our food products. To-day. things have
reversed, and the real problem is to find reversed, and the real problem is to find
enough of the products to feed our own enough Une the psoducts present - day conditions
people. Unlester are radically changed, and that in the
very near future, the probl om of feeding very near future, the problcm of feeding
our American people will be a most serious matter.
What part is the Farmers' Institute go ing to take in the solving of this prob-
lem ? This is a matter worthy of our most careful consideration. In some
States the farmers' institutes and agrl cultural extension work are making real
progress in this direction progress in this direction. It is a a case
where we must cast aside past notions
and policies and meet the issue sty and country woman, the country boy.
and the country girl, are worthy of the
very best that the Institute system
fords. fords. It will mean a new work, $-=0$
broader
and more permanent Institute system. These problems cannot be
solved in a two- or thre-day session each year, They demand a permanent
organization, some well - deâned line of activity for almost every day in the
aenr year. successful Farmers Institute of the
The suce will be in the hands of men and future will be in the hands of men and
women who are organizers in the fullest
meaning of the meaning of the word. Information will
be imparted through the use of illuatratbe imparted ehrough the use of illustrat
ed loctures, exhibits, and demonstrations of an educational and practical nature.
Co-operation in all phases of the work. Co-operation in all phases of the work,
and between the people in the various and between the people necessary. The day
communities, will be ne
of the farmer and his family living unto themselves and solving their own prob-
lems, is fast disappearing, and must give way to community life where all will
share each other's burdens share each other's bur
extent extent.
Institute workers must so arrange and
present their work that a stimulus for better and more civilized ideas of farm sidering the problems of the irm hon-
side,
illustrated lectures exl, ihins sidering the prontems of the lirm home,
illustrated lectures, exv, hits of household
necessities and convient devices and necessities and convenient devices and
practical demonstrations on the how and practical demonstrations on the how and
why of the following things should be
presented: presented: Labor-saving devices in the kitchen.

1. The use of mechanical power for 2. he use ong, churninc, and sweeping.
Fashing, ironing
2. The installation of a mod rn water 3. The installation of a modrn water
and sewage system. 4. The installation of a modern heating and lighting syo-
of and
tem. The presentation of carefullytem. 5. The preaentation of carefully-
worked-out plans for a comfortable and worked-out plans for a comportable and
practicable farm hnme. $\quad$ G. Sensible

 hints on the
the farm lawn.

DECEMBEER 4, 1913
THE FARMER'S ADVOCATE.

## Lep Poultry WANTED

WE are now sarating to pack W poutry fot the wistifn CANADA AGsonsty your birdiare

 pied be hotidn wourtit to- tarit youlive west
We supply crate and duaranteo We pay a special price for millk Wed pay a proctian porice chictena.
canndas lempic
poutrav_house
Silverwoods Limited
LONDON, ONT.


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ment for mankind. For, Synovitis, Stroin Gouty or Rheumatic ceposits, Will tell you
Painful Varicose Veins. more if you write. $\$ 1$ and $\$ 2$ per borly by
dealery or delivered Mand
Mand

Any system of rural organization rails
in its purpose when it does not consider
the vital necessity the vital necessity of human companinon-
ship for the families in the rural homes. This is a phase of country life which has
been very greatly neglected. been very greatly neglected. It should
be the Institute workers come this negligence by creating an ambl-
tion and incentive toward tion and incentive toward a more ideal
condition. This may be accomplished by condition. This may be accomplished by
the presentation of plans and outlines the presentation of plans and outline
which will stimulate a desire on the par which will stimulate a desire on the part
of the people to introduce some of the
following activities:
 formation of local literary, societies, sing ing schools, spolling matches, and home
talent piags. 8. Basealil, foothall, talent plays. ${ }^{\text {3. . Baeseball, football, }}$
lawn tennis, and baskethall for the boye and giris. ${ }^{\text {4. Provision for a grapha- }}$
phone with good records in the echools phone with good records in the schoole
and the homes. 5. Urge the impor and the homes. homes. 6. Encouragement of birthday
parties and eeasonable parties, especially parties and eeasonable part
for the younger children.
Emiciency is the modern watchword in
all lines of work. To insure the highest ank ines of work. To insure the highest
degreo of efticiency. Whe must have hikhty
skilled experta. This demands special skilled experts. This demands special
training in our educational syatem. In many of our rural districts, it will mean
a reorganization of our school work. Our farm boys and girls are worthy of a our farm boys and giris are worliny and
school training which is outlind and
taught in auch a way as to thoroughly taught in such a way as to thoroughly
dignily the two greatest of our indus-tries,-agriculture and home-making. The Farmers' Institute should demand
better schools for the boys and girls, better schools for the boys and giris,
and should furnish suggestive ways and and should
means for improving the mind and the intellict, and developing the intiative of
our rural poople. A great deal may be
occomplished in this direction by inaug accomplished in this direction by
rating the following lines of work:

1. A re-organization of our school syl
tom to meet the needs of the farm boy and the farm girl. 2. Township and travelling libraries.
and atudy clubs. A. Lecture courses

and | work along ${ }^{-}$agriculture and home |
| :--- |
| making lines. 5 . Domestic science and | domestic art shows. 6 . Corn and grain

 and sewing contests for girls. 8. Corn grain, live stock, poultry, fruit and vege Cosay writing and spelling contests for
Eorest boys and girls. 10 . Corn, grain, truit, poultry, and live-stock grown
tions for boys and girls. It is claimed that in many sections our rural people have no aflliation with a dition of affairs. The boy and girl who good Sunday-chool have been doprived of an infuence and early training
counts for much in their later lifo. This offers another fertile field for the
institute morker. The ehurch building institute worker. .ecellent center for our
should afford an should ate meetings. The churches should be used and worn out, and not allowe the things most urgently needed in the rejuvenation of our rural church work 1. A useful church building so planned
and located that it may also serve as the community social center. 2. Th employment of a minister who know-
rural conditions, and who is in full sympathy with and loves to do rural church
 I wish to direct you attention to th 1 wish but no means the least impor arth, but by no the dissatisfactions
tant reason lor
our country women and chldren for fart
our life, -that is the road problem. Withou
fairly good roads at all $\begin{aligned} & \text { seasons of the }\end{aligned}$
git Yairly good roads at impossible to remedy
year, it it next to

our present--day troubles in reference to | oour present-day troubles in reference to |
| :--- |
| oun social educational, and church prob- |
| the |
| lems of our rural people. The use of | the social, educatial people. The use of

lems of our rural
the automobile has already accomplished
With a $; \begin{aligned} & \text { the automobile has already accomplighed } \\ & \text { wonders for our farm people. With a } \\ & \text { better system of country roads, its use }\end{aligned}$ better sypen of country Poary, Farmers'
can be greatly enlarged. Every

Institute organization should get back of | Institute organization, should pet back ot |
| :--- |
| a sensible road plan, because in this day | and age of invention, the distance be-

and the town, rural
tween the farin home and
the shool, community center, or the church, sehool, communty notghorhood,
other farm homes of the entigh miles but the is measured not by
condition of the roads.

## Caldwell's <br> Molasses Meal

is the only convenient and profitable form in which pure cane molasses can be fed. Other feeds may contain pure cane molasses. The remaining $16 \%$ is an edible moss, famous for its therapeutic qualities. That's our guarantee to the Canadian Government and to you. The ingredients of Molasses Meal are plainly printed on tag attached to every bag. Let us know if you cannot get it at your dealer's.
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Kolaseee Meal, Datry Meal, Substitute call Menh, Poutury Menle.
Use this on the Farm and in the Home |||| I I, NO wating dime over a lantem. Wherever you
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Mal yome order todey to-

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THE FARMER'S ADVOCATE.
FOUNDED 1866

## Questions and Answere

 Miscellaneous.Appointing School Secretary Which is the legal way to appoint rrustees or by the ratepayers? SUBSCRIBER. (a) of the Public Sch
1909, Chap. 89)
Bequest of mo

A makes her will leaving all her money
except $a$ fow hundred dollars, which she xcept a few hundred dollers, which she
sets aside for her own keep. Now, when she is a very old lady and not responsi-
le to make another will, she finds she has not enough to meet her expenses.

1. Can she use any she has willed away?
2. If she does, will the executors have to make up what is deficient ?
ontario.
Ans.-1.
Ans.-1.
3. No. Certainly she can
Absence of Oestrum.
Have a valuable pure - bred cow; was bred in March, 1912, and was apparent y in calf. Being in good flesh, it was
difficult to tell until December, when it was found she was without calf. Cow has never been in season since being
bred. Appears to be in good health. bred. Appears to be in good health.
Has had calves before all right. $\begin{aligned} & \text { Why }\end{aligned}$ does she not come in season? Do you
think she will ever breed again? think she will ever breed again? W. R. Animals that are not in good condition but apparently this is not the reason in
your case. It is due to an abnormal our case. It is due to an abnormal
condition of the ovaries, which may righ itsell in time. Sometimes, 2 drams nux
vomica administered three times daily in vomica administered three times daily in
the food, apparently has a good effect by stinulating the nervous system. It
bou allow her to run with \& bull, she you allow her to run with a bull, she
may come in season, and breed. The may come in season, and breed. The
animal may return to normal condition and be a good breeder, but such is not
often the case.

## Trade Topic.

CARCASS COMPETITION AT THE Winter fair. the carcass competition more attractive
and of greater educational value and of greater educational value than
ever before. After the hogs have been judged alive, they will be placed in pens and cards indicating the prize awarded placed on each pen. Visitors to the
building on Tuesday afternoon and even
ing will ing will be able to observe closely the the
oost approved type of bacon hog, and most approved type of bacon hog, and
on Wednesday evening they will be able to see the resulting carcasses, and thus
be eenabled to learn many valuable les
sons.

## Gosuip.

Last Call for the woodstock All the signs of the times po anprecedented boom in the dairy business of this country, and to a substantial in-
croase in the value of dairy cattle and croase in the value of dairy cattle, an
particularly to animals of those breeds that have demonstrated in official Government tests their ability to produce
suffcient milk and butter-fat to
entitle them to registry in the official entitle them to registry in the official
records. This is exactiy the kind of Cattle that Ruby, Leuszler \& Bollert are
offering by nuction at Woodstock, on Werdingsay, Fecember 17 th, an absolute
dispersion of the two herds that have taken many years of judicious and care standard, but circumstances make it
neressary for them to be sold, and Cana-
dian farmers will get the benefit and an
$\qquad$
$\qquad$ ed Owing to the large number to be
sold, the sale will commence at 10 a.m.
and at noon will adjourn for lunch. Mistress.-Well, F'n sorry you want to leavz me, Mary. But what s your rea-
son ?
(Mary keeps silent.)
Mistress - Somethink private?
Mary (suddenty) - No, mum, pleaso


The very thing!

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GANADIAN KODAK CO., LIMITED, TORONTO

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We have females of all ages and of the best Scotch families for sale. Thowe A. F. \& G. AULD Eden Mills, Ont. Bell 'phone. Guelph or Rockwood Stene SHORTHORN BULLS FOR SALE

 SHORTMORNS $\begin{gathered}- \text { Records show that cattle bought from the Salem } \\ \text { berd won numerous ribbons the pastseason; we have }\end{gathered}$ ILORA G. T. R. and C. P. R. ${ }^{\text {othera. }}$ Several young bulls are priced reasonably

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MEADOW LAW

 high official backing. Let me know your wants.
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Please Mention the Advocate

DECEMBER 4, 1913

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"As you sow them-so shall you reap." writs:
Tho William Davies Co., Ltud. WEST TORONTO, ONT.


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Printed notices containg further information
an to conditions of proposed contract may be been

 Ottawa, November $\quad$ Notice to Importers C. CHABOUDEZ \& SON 205 rue La Fayette, PARIS, FRANGE Hysu rait so buy parchaon horex. and
 Aberdeen-Angus of sion romm

 SShorthoints, Cotswolds. Berkshires

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## Shorthorns

Fourteen good young bulls, from 6 to
12 months old, and a number of 12 months old, and a number
females. Would appreciate
your enquiry for same H. GARGILL \& SON, Gargill, Ontario OAKLAND 45 SHORTHORNS

 of excellent milking strain, youngest if propeniy
placed will head a herd
NNO. ELLDER \& SONS, HENS ALL, ONT. 1854 Maple lodge stock farm 1913

 A. W. SMITH, MAPLE LODGE, ONTARIO Spring Valley Shorthorns

 WOODHOLME SHORTHORNS

 SHORTHORNS FOR SALE
 Stewart M. Graham, Lindsay, Ont.

 a choice lo of shearling ewes, now bred to imp. ram
W. A. Douglas, R.R. No. 2, Caledonia, Ont

THE FARMER'S ADVOCATE

Questions and Answers. Miscellaneous.
Castration of young Stock pig be castrated? 2. Would you advise selling oats to

buy oil cake to | $\begin{array}{l}\text { buy oil cake to teed horses or other } \\ \text { young stock? }\end{array}$ |
| :--- |
| $\begin{array}{l}\text { w. W. } \mathrm{S} .\end{array}$ | Ans.-1. Young pigs should be cas-

trated while sucking the mother, at an age of four to six weeks, but this will
be impossible with the call. About three be impossible with the calf. About three
months of age is a most satisfactory time for them.
2. Not ordinarily, yous 2. Not ordinarily. You can not get
what oats are worth. Keep the oats
and buy a bag of What oats are worth. Keep the oats
and buy a bag of oil-cake meal occa-
sionally. Only sionally O Only a small quantity is re-
quired to show in the coat quired to show in the coat of the young
stock.

Three-horse Evener.
Some time ago there was a question
asked and answered in "The Farmer's Advocate ${ }^{\text {re plowing with three hdres }}$
and although we have searched high and and although we have searched high and
low we can't find that number. (I have
the number with the furrhe the number with the four-horse arrange-
ment.) Would it be asking too much to

have that answered again in your next
issue. issue. I would consider it armer.
YOUNO FANG Ans.-We publish again our tllustration of a thrye-horse evener. We have others,
but perhaps this will meet your purpose. Diarrhea in Pigs. I have eight little pigg; they will be three months old on the 17th of Decemm
ber. They were weaned at eight weeks ber. They were woaned at eight weols.
At first I scalded barley chopo and put a little
adding a little bood in it, also mills, and
buttermill.
They
took adding a little buttermilk. They
diarrhea. I then started to teed rolled diarrhea. Ir then started to leed rolled
oat chop dry, and skim millk about hal an hour afterwaras, and cotd water, but
they do not peem to get much better they do not geem to get much beter
Now, I feed a gallon of oat chop thrbe
times Now, 1 a day. Is that too much I I
times and
oat chop good for little pigs? Will bar oat chop good for little pigs? Will bar
ley ehop, with a great many awns on ley ehop, with a great many awns on
be good for them? Will you please tell
me a good ration for little pigs? me a good ration for little pigs?
A SUBSCRIBER. Ans.-Several conditions may combine
to cause this trouble with the young Co cause this trouble with their teeth
pigs $\begin{aligned} & \text { Colds, trouble with } \\ & \text { or inability to properly digest the }\end{aligned}$ Rood, will lead to diarrhea. House them
in clean, in clean, ary pens, wun out where the
but allow them to run
may have access to the ground. Groun may have access to the grounc. Groun
oatts with hulls removed is excllent food
for the young pigs, but the hulls, in an fots we young pigs, but the hulls, in any
fuantity, are indigestible. If you wish
quil to feed oarts, sifit out the hulls and fepd
with milk as you have been doing. Mid with milk as you have been doing.
dilings, with low-grade wheat flour, com-
monly known as feed flour, is excellen monly known as feed flour, is excellent
for growing pigs. Any grains with
thick hulls or numerous awns, are not

 Lo.D. phatill . Myrtle, C. P. A. J. and G.T.R. ${ }^{\text {\& }}$ CO., COLUMBUS, ONTARIID.
Long-distance 'pho

 moderate. I can suit you in quality and in price. Ask wor bent catalogue.
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UPPOSE you select a rundown horse, cow,
sheep or hog and try the effect of Pratts sheep or hog and try the effect of Pratts
Animal Regulator. It will not cost vou a
cent to make the experiment, because we have cent to make the experiment, because we have authorized your dealer to refund your money
instantly if it fails. If it puts the animal on its instantly if it fails. If it puts the animal on its
feet, causes it to put on flesh, and places it in prime condition, you will consider the money well spent.

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is the original stock regulator of America, and for 4 y $^{\text {y }}$ yars has been recognized as the most eliable and effectual regulator and tonic for all cinal roots, herbs and barks, so blended as to act
gently but surely upon the blood, bowels, liver gently but surely upon the blood, bowels, liver
and digestive organs, ensuring perfect digestion and causing the animal to draw more nourishment from a reduced amount of feed. "Your Money Back if it Falls."
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SHIP YOUR

## RAW FURS <br> O THE LARGEST, MOST RELIABLE AND OLDEST HOUSE IN GANADA

 We Pay Express and Postage Charges. Prompt Returns.E. T. Carter \& Co., 84 Front St., E., Toronto 100 SHO INTHEORRIS 100 For alle-Imported yearting ohow bull: 14 bull calveis 8 to 14 monthe old; coove and heliers and tive MITCHELL BROS, were prise-minere at Teronto BURLINGTON, ONTAIO
Shorthorns and Clydesdales mitiza ixi


 ROBERT MILLER, Stouffille, Ontario

[^1]

Aylmer superior Level Force Pump



－any pooition
The handle io drilled fio
three lenathe of strok．Sik，
elight，andh ten－inch stroke．
This is reallly convered
Into Windmil Pump by
the addition of f a flat bras，
heith ocrews on too．
into the croses．

longer to obtain same
stroke．
This pump is adapted for

Youll never regret placing
one of these pumps on your farm．Write us to－day Aylmer Pump \＆Scale Co．

## HUNTERS－－TRAPPERS




RICE＇S SALT
Is made by a clean and pure proceso．
ASE FOR IT.

North American Chemical Co．，Ltd
Cows Wanted
Give best prices on fifty head milking age age six years，tuberculin tested．

THE DUNROBIN FARMS Beaverton Ontario High－class Ayrshires ${ }_{\text {ing a richly－bred }}^{\text {II }}$ you are want young bull out of a $50-\mathrm{Hos}-\mathrm{a}$－day and over cow，im－ D．A．MACFARLANE，Kelso，Que Dungannon Ayrshires ${ }_{\text {Ayrshires．，write }}^{- \text {For }}$ us or come and see them．We can sell matured
coww，heifers，heifer calves，and one richly－bred 8 nonths old bull calf．Prices right．
L．－D．Phone．W．H．FURBER．
DON JERSEY HERD $\begin{gathered}\text { Offers younk } \\ \text { bulle }\end{gathered}$ belfers for sale：heifers bred to Eminent Royal Fern． Pheose L．－D．AURincourt．DON，ONTARIO．Duncan Stn．C．N．R．

Questions and Answers． Miscollaneous．
Hackney Stallion．

 Feathers on Legs． Will a pure－bred Barrod Plymouth Rock hen have pare－bred Barrod Plymouth Rooks
knoes ？ Ans，－A pura－bred Barred Rock with
 in an exhibition，but a puro－bred birr
gomewhat of a froeak，might have foatherr on its logs．
Encloent Worms in Colt．
Enclosed you will
came trom worm which
fring colt． ceme one like it before，would you kindly
inform
ind Ans．- The colt had the w．J．T． of worms otten found in the intestines of
horeae．
Try
sour drams each sulphate horeas．Try Rour，drams each sulphate
of iron，sulphate of copper，tertar mete and calomol．Mix．and make into twelve
powdera．
 give him a，purgative of half a plito ot
raw linesed oil．
Feoed bran only for
24 raw lingeed onlil．Feed bran only
hours after giving the purgative．

Minor Owning Land－Roads．
1．Can a young man，ilghteen years of
age，buy and own tand in his own name？ 2．What in the cost of macadam roade？
Are they the choopeat kind of permanent

Ans．－1．Yes；you could take a d．Joo of
the land in your own name and become
the Cand in your own name and becomon
the owner of it You would not be in
an poitlon a position，legally，to convey or lease it
unth 21；but you could operate it it proposed in the
within the law．
law
2．The ordillary macadam road，near
to stone or a railway siding，where it
could be dellivered，costa upwards of
$\$ 4,000$
$\$ 4,000$ per mile．
removed from ther roads farther
mater dififcult of construa
$\$ 16.000$ per mile
Cement Queries．
 want to lower the flor．Would it be
all right to cement on top of the earth， ail right to cement on top of the earth，
without rotick or stones，and how much
cenent，etc．，would $I$ noed ？ 2． $\mathrm{I}^{2}$ would would I need？
buiko to
buint building， $30 \times 16 \mathrm{f}$ feet． $\left.\begin{array}{l}\text { coment another } \\ \text { ment．etc．}\end{array}\right)$ much co－ 3．Mte．，Would 1 reed ？
3．Mis horse stable How many bags of cement，etc．，mould
it take
Ans．-1 ．It would be better to make a good gravel bottom．It would require
about 80 to 85 barrels of cement and about 30 to gravel to go under the cement． Yards of gravel． 13 barrele of camen 3．About 12 or 11 barrols of coment
and
anler undernaeath comenath，not counting $\int_{\text {A }}^{\text {Aller underneath coment．}}$ A bow，the property of $\begin{gathered}\text { John Semple，} \\ \text { Derryduf，} \\ \text { Dungiven，had } \\ a\end{gathered}$ litter of
 When farrowed．I bolieve this is a ree
ord，writes R．C．M．Trainor in the Irish Farming World．
Matthew Marshall，of Stranrear，Scot land，the well－known Clydesdale breoder
was an interested spectator of the Clydes dale auding at the recent National show
in Toronto．This is Mr．Marshall＇s fro in Toronto．This is Mr．Marsanal＇s Arst
visit ton oanadas and we sincerely
hope
his impressions of our countres，our poo－ nis impressions or our country
pie，and our stock，may be such that he will be induced to pay us many more
visits．
At a combination auction sale on No



Pennsylvani，several others sold lor
prices ranging trom $\$ 300$ to $\$ 355$ ench．

Here＇s what one Farmer says about the LOUDEN Carrier
 Louden gives me peffoct tuitid The Louden Carrier kicks barn－drudgery
out of the way．You just fill the galvanized box，raise it by a light pull on the chain（a boy
can hoist half a ton）then run the load quickly an thist half a ton）then run the load quickky
nd easily from the bara to the manure heap deasily from ite bara to the manure hear can be conveniontly dumped． Wrte to dey for more partuoularr




Ded 31 GUELPH， O

TTOODEN pails and tubs are as much out of date as the scythe or the sickle－and just as unpractical．

## Eddy＇s Fibreware

gives superior results－for less money．Pails，tubs，dairy utensils，etc．，made of this material are light，tight and durable． They have no hoops to drop off－no seams to crack． And they outwear the wooden articles many times over．

Just as sood as Eddy＇s Matches

## OIL CAKE

Nothing better for milk cows．They give more milk and better milk when fed

## Livingston Brand Oil Cake Meal

It is equally good for fattening steers and putting them in the market in prime condition．

Fine ground，or course ground for cattle．Pea size for sheep．We also sell Linseed Meal and Flax Seed

If your dealer cannot supply you，write us．
The Dominion Linseed Oil Company Limited BADEN，ONTARIO

MONTREAL；QUEBEC

## RRAKY HUIRE

If there are any Trappers or Collectors of Raw Furs that do not know us by this time，it to time Low to get acquainted wit price list，or better yet，make us a trial shipment and let us show you when
Let us send you uour $\begin{array}{ll}\text { TORONTO 1815 } \\ \text { WALKERTON } 1895 & \text { C．H．ROGERS } \\ \text { Dept．R．Walkertion，Ont }\end{array}$

Direct Exporter
and Manufactures
Ayrshires and Yorkshires $\begin{gathered}\text { Bull for service，of different gerem } \\ \text { femalee all ages．}\end{gathered}$



City View Herd of Record of Performance A YRSHIRES ore two－year－old，one yearling，one callf，males only，for sale，from R．o．P．cows．and sired by bulle
IromRR ．damas
JAMES BEGG \＆SON．
R．R．No．1，ST．THOMAS，ONT
 noted daughtera．Several imported cowa and B．B．Bull \＆Son，Brampton，Ont．

## SHARPLES M <br>  <br> America＇s ahrewdeat dalry－ men uese over 6000 Sharples A good example if Herreper：  his many dairy barns and tried－ and another and another and he now milks twenty－one herde henow milks twenty－one he with the Sharples Milker． with the sharples Miker．  milk，and the livest wire on sanitary methods in the United States States． A mall locality in Southern A small locality in Southern New York Nees over 0 Sikpoles Milkers－the Province of On－ tario miks 2500 cows with the Sharpopes and many thousands of mehines are nsed through－ ${ }^{\text {of }}$ out the contines arent．  It faves monov．roileves the bolp  <br> $$
\begin{aligned} & \text { The Miluer book is sood. } \\ & \text { Send for it it } \end{aligned}
$$ <br> The Sharoles Separator Co． West Chester，Pa．，U．S．S．A． Winnipeg，Canada． Toronto，Canada． Agencies Everywhere． <br>  HOLSTEINS FOR SALE Ten females，，all alaea one kull 3 y years  de lot．aplyy to Ies south of Guelph． <br> MOLASSES FEEDS For Dairy Stock and Horses HSHOLM MILLING COMPANY CHISHOLM TORONTO

Royalton Stock Farm Holsteins Eerch arded by Royalion Rorndyke Major．（Imp．）
 all
 The Maples．Holstein Herd
 butiter in 7 day．
e．R．No． 5 WALbURN RIVERS ${ }_{\text {Ingercoll，Ont }}$ GIenwood Stock Farm 2 YEARLING




Questions and Answers Miecellancous．

For Sanitary Milk Pails couple of eanitary mast I have wanted a pails，or some
kind kind of inprovement on the old－fash－ Ioned，open－mouthed sort．A Canadian
frm advertises one，but on application，
answer＂dd answer＂do not stock it，＂and gives an
American address．Now，I prefer to deal
with Canadian firms，to buy＂made－in－ Canada＂groods，if 1 can． Ans．－Firms manufacturing such pails and B had Interest． house to settle his account，but $B$
pays no attention to him，and has not sent in his eccount against A．Can．B
charge A tinterest on his account？
Ontario．
SUBSCRIBER．
 stated＂between．the parties，any time
ixed for payment，and demand for same． axy agreement either exprese or implied．
and
that the account should bear interees，or
， any notice by B to A that interest would
be charged；therefore we think that $B$ is not in a position to recover interest． Right to Rails． $A^{\prime}$ s and $\mathrm{B}^{\prime} \mathrm{s}$ Lands adjoin on the con－
cession line， $\mathrm{A}^{\prime} \mathrm{s}$ land in fitth concession and B＇s land in fourth concession，B hav－
Fience was
ang all the road allowance． built by the man that $A$ bought the farm别 er thirty years． $\mathrm{B}_{\mathrm{A}}$ and B divided the
has taken $\mathrm{A}^{\prime} \mathrm{s}$ rails
ene away and drew in a lot of large stones． There are some rails there yel．Has B
any right to the rails Can A take
them？What steps should A talke to secure the rails ？SUBSCRIBER． Ans．－The foregoing statement of facts
insufticient to enable us to answer is insufficient to enable us to answer
your questions．We are inclined to think that，as the case is stated，$A$ is entitiod
to the rails in question；but so much de－ pends upon the terins of the recent divi－－
sion of tence that we cannot venture a sion of fence that we cannot venture a
definite opinion．A should consult a definite opinion．
solicitor personally．
Public School Inspector and Trustees． Public Schoor ne powers of Public School Regarding the powers or
Inspectors in rural sections： 1．Has a Public School Inspector the power to hire a elean ealary without con－
a school at a given sal sulting the Trustees？ ？ 2．In such case，wnt of his salary？ sible for the payment of in intructs the
3．Where an Inspector ins Trustees to engage an unqualified teacher （by letter），which they do for a lew
days，has the said Inspector a right to days．has the salasurer of the Municipal－
instruct the Treaser whatever ity not to pay over any money whatever
to the Trustees？ to the Trustees？SUBSCRIBER．
Ontario． Ans．－If we were to go upon the state ment of case submitted，alone，we shoul negative；but we really cannot deal satis factorily with any of the questions with－ out reasonably full informatances af the
ing the facts and cums
and whole matter
not give．

## Contagious Abortion．

1．How long does a cow，affected with call？
2．Does a cow thus affected give the 2．Does a cow aling beforehand？
usual sigus of caling
3．Is there a certain means of telling 3．Is there a certain means of the
when a cow slips her call，whether she is affected or not？If so，how？ 4 ．Are cowne im－ mune from the disease？SUBSCRIBER， Ans．-1 ．There is no definite time
Some abort soen after being bred；others
she nearly the full may carry the
nine months．
nine months．id they have carried their
2．Some do，if
calves up to near the usual period of
 lating the
ease，so
method．
4．Cow method．
4．Cows generally becom
from two to three years．

## Big Dispersion Sale of 90 Holsteins 90

An event，in which the choicest of Holstein Cattle ever sold by Auction in Canada，will be held in the covered rink in the City of Woodstock，Ontario，on

Wednesday，December 17th，1913， when a total dispersion of the big high－record herds of Mr．Elias Ruby and Messrs．Jacob Leuzler \＆C．Ballert will be sold to the highest bidder． 90 head； 78 females， 12 bulls．


Practically all the females in
milk are in the R．O．M．and
R．O．P．many of them in both R．oords． R．O．M．four－year－olds and up．
wards，from $211 /$ to $211 / \mathrm{lbe}$
Three－year－olds 16.41 lbs ．Two－


Much of the producing blood of the breed is represented in the herd，many are high－class show animals，many of the young things are the get oros to will be bred to，King richest bred bulls alive，those not breds have records averaging Lyons Colantha，whose 7 nearest dams have recording to sell． 20\％los．，The Cash or 5 months with 7\％．

Terms：Cash or 5 months w
JACOB LEUZLER，R．R．No． 1 BRIGHT Salee Manager
E．M．Hastings，Laconia，N．Y．，Col．B．V．Kelley， Syracuse，N．Y．，and Col R．E．Iuctioneers

Sale at 10 a．m．

Ship your LIVE sTOCK to the old firm of
DUNNING \＆STEVENS，Inc． Commioeion Merchante EAST BUIFALO，N．I


Wito for mortoe pape
FAIRVIEW FARMS HERD A son of PONTIAC KORNDYKE，out of a cow with a record of over 31 pounde in 7 days．Calf is nearly ready for service．Have only a few sons of this gons or eft，and remember these are the last． LOOKT THEY ARE PRODUCING．
PONTAC KORNDYKE，AND SEE WHAT HEUVELTON，NEW YORE E．H．DOLLAR HEUVELTON，NEW YORE LAKEVIEW HOLSTEINS

 HOLSTEIN GATTLE

The Buyer＇s Opportunity
We have more Catte than we can stablee Some of the finest yourg bult and helfere we ever D．C．FLATT \＆SON，R．R．No．2，Hamilton，Ont．Lons Diatance Phono 2 ur Riverside Holsteins

J．W．RICHARDSON，
Beaver Creek Holsteins and Percherons
 HOLSTEIN－FRIESIANS
 ：：COBOURG，ONT Evergreen Stock Farm High Class Registered Holsteins


## 2130



Raw Furs
We are the oldeot RAW FUR HOUSE, as welk


HIRAM JOHNSON LIMITED 494 St. Paul St., Montreal

CATTLE AND SHEEP LABELS

 F. G. JAMES, Bowmanville, Ontario Faraham Oxfords \& llampshires The Oldest Establiahed Flock in Americ We are maling a spectal offering for 30
daye of 30 fine yearing Oxford Down

hignry arkell a son. Arkell, Ontario Alloway lodge stock farm COLLIES
A fem young puppies now for sale both from
imported and bome rod ond
Oorder
order andy for e pood oung Angua
bull this year you vieh to
ROBT. McEWEN, BYRON, ONT.
Oxford Down Sheep, Shorthorn Cat-
 Tower Farm Oxford Down- We are of ewe lambs from our imported rams; also a few one-
 HILTON STOCK FARM
 R. O. MOCked and right good ones,

Brighton Sta. Phone.

 Poland-China Swine for sale from the
 Prize Chester White Swine-Winneri Pype and quality, bred from winers and champ
lons. Young stock both eexes, any age, reasonable Wrices. Wright \& Son. Glanworth P.O.. One Tamworths JOHN w. TODD, Corinth, Ont. Marion(just from the telephone)- He
wanted to know if we would go to the
theater with him, and I said we would." theater with him, $\underset{\substack{\text { Made } \\ \text { Mari } \\ \text { ask." }}}{\substack{\text { and }}}$

Gossip Shipments of Clydesdales from Scot-
land to Canada, in the first and second weeks of November, were consigned to William Meharey, Russell, Ont.; R. N.
Harris, and - Barluer Bros., Gatineau, Harris, and - Barber Bros., Gatineau,
Que., and W. J. McCallum, Brampton, Ontario.
The annual sheep returns for New Zealand this year show an increase over last of nearly half a million. The total num-
ber of stheep in that country is now over twenty-four millions, being owned by
21.527 sheep farmers. Five million sheep $\mathbf{2 1 , 5 2 7}$ sheep farmers. Five million sheep
and lambs are killed for export every and lambs are
year.-Farmers'
Guzette

SUCCESSFUL JERSEY SALE. At the seventh annual auction sale of
imported and Island-bred Jersey cattle imported and Island-bred Jersey cattle,
held on November 3rd, at Burs Oak Farm, Shelbyville, Kentucky, by W. R.
Spann, 108 bead sold for an average of \$276.85. The top price for a cow wa $\$ 800$, for the two-year-old, Princess
Michaelmas Daisy; another, brought $\$ 750$ and three others from $\$ 600$ to $\$ 650$ each Five hundred and twenty-five dollars was he highest price obtained for a bull
Noble's Gamboge Knight bringing this price, two others reaching $\$ 500$ and $\$ 300$ and a heiler call for $\$ 400$. Four daugh ters of Bright Prince sold for $\$ 1,870$
Bright Bright Prince was bought by B. H. Bul Grove, in 1912. At Nashville, Tenn., Nov. 5th, the
Ravenscourt herd of Dr. W. G. Ewing
was dispersed, the 63 heed offered realizing an average of $\$ 262$. The center
nttraction was the herd bull, Raleigh' atcraction was the herd ball, Raleigh
Noble, three years old, and sold 1 for
$\$ 2,250$ to J. M. Overton. The highest price reached for a cow was $\$ 525$, fo
Imp. Golden Maid's Princess Fern, four

SHORTHURNS, COTSWOLDS A BERKSHIRES AT WOODBURN. One of the ulldest established and mo
reliable stock facrus in Western Ontari is Woodburn, the property of E. Brien \& Sons, of Ridgetown, ont. For over cettle, Cotswold sieep, and Berkshir a large one, is an exceptionally select
one, nice in type, flesh and quality one, nice in type, flesh and quality, re
resenting the Minas, Rosemarys, and Mayflowers, at the head of which is the Toronto prizewinning son of the notod breeding bull, Trout Creek Wonder. an.
out of an imported Duthio-bred dam.
For gale are several choice young bull
 and a few heilers. The Cotswold flock
if one of the largest and best in Canada,
over 200 breeding ewes over 200 breeding ewes, all either im-
ported or bred directly from imported ported or bred directy from imported
stock. and none but the very best im-
ported rams have been in use on the ported rams have been in use on the
flock. Those in use at present are both of swanwick breeding, and both Royal
winners. These, bred to the Garne and winners. These, bred to the Garne- and
Houlton-bred ewes, are producing most Houtcon-bry results. High-class show
satistactory
mpterial. shows, are plenty in the herd. Another stock ram used to some extent is a home-bred one that was first at Lon-
don and second at Toronto last fall, and
urst an urst at the Toronto Winter Show. For
sale are about fitty ram lambs and a
number number of shearling rame, as well as
shearling ewes and ewe lambs, all of the shearling ewes and ewe lambs, all of the
highest possible merit. The Berkshires highe up to the same high standard. Estab-
arshed
lished lished over fifty years, the herd has al-
ways been one of the foremost show
herd bion herda the to partises what ing or for vital
importance to
ing stock in Berkshires, is the fact that
all ing stock in Berkshires, is the fact that
all these years winers have been bred
in the herd


## Roofing Information

$\Gamma \mathrm{HE}$ days of hand-made wood shingles, such as our grandfathers used, are past. To produce such shingles to-day would cost far more than the best galvanized steel shingles The ordinary sawn miserable substitute. Their lifetime is short because the rough surface holds water like a sponge and_collect chaff and decaying vegetable matte which quickly rots the wood.

Galt Steel Shingles make the bes and most durable roofing you can buy possessed by no other steel shingles on the market.
Write to-day for literature and Paluable information, which may save you hundreds o
dollars. Simply write the word "Roofing" on

THE GALT ART METAL CO., Limited
150 Stone Road, Galt, Ontario
Cor. Richard and Pine Sts., Winnipeg, Man

## MinMILK - BUTTER - BEEF COTTON ERAND <br> 

CRAMPSEY \& KELLY, ${ }^{780}{ }_{\substack{\text { Dovercourt } \\ \text { Road }}}^{\text {WRit }}$ Toronto, Ontario
Maple Milla Oxford Downs and Morkshires This fall I have the best lot of lambs I ever bred. I have plenty of
show material, bred from the best stock procurabie in England. Order early if you want the best. Ram lambs, shearlings and ewe lader Yorkshires of all ages
J. A. CERSWELL, BOND HEAD P.O., ONTARIO Shropshires and Cotswolds in my 1913 importation of 60 head just arrived







ELMHURST LARGE ENGLISH BERKSHIRES

DUROC JERSEY SWINE Cloverdale Large English Berkshiree







For a Better House--At Lower Cost--In a Month Less Time--Use

## WALL Boakisimsiliathing

Bishopric Wall Board is made in sheets $4 \times 4$ feet by imbedding dressed laths, anderi 1500 lbs. pressure, in one side of a sheet of hot Asphalt-Mastic
and surfacing the other side with sized fibre-board. It comes to you in crates of 11 sheets, ready to nail on the wall, and any handy man can put it on in
far less time than skilled workmen far less time than skilled workmen can apply lath and plaster.
Bishopric Wall Board goes on DRY, so that you can move into the house the day it is finished, without weeks of waiting for it to set and dry. lath) it makes a flat, rigid, substantial wall. On account of the patented Ath) it makes a fiat, rigid, substantial wail. On account of the patented
Asphat-Mastic it makes a moisture-proof, rat- and vermin-proof, fire-resist-
ing woll, warm in winter and cool in summer. On account of the surface of ing wall, warm in winter and cool in summer. On account of the surface of sized fibre-board it makes a wall that is easily painted or papered. plaster it never falls off, so costs nothing for repairs-and it saves on the fuel bills every winter
bring you information of real dollars-and-cents value. Address Dept. "L."."
 our ofice in Ottawa, and we will send you architectura plan for builiaing, etc.
Bishopric Stucoo Board, made apecially for stucoo work. Write for emmple.

BISHOPRIC WALL BOARD CO., LIMITED
Room 44, Canada Life Bulldimg OTTAWA, ONTARIO


You and Your Friends are Invited to the

## TORONTO FAT STOCK SHOW

Union Stock Yards, Toronto
Judsing: Saturday, December 6th, 1913
Auction Sale of Prize Winners
Monday, December 8th, 1913
Unsurpassed Exhibit of Cattle, Sheep and Swine.
Admission Free. Reduced Passenger Fares


Accuracy at the Traps
THERE is a great deal of satisfaction in being absolutely sure of every shot. The
shooting are doubled when you use
C. Dominion Ammunition Che

High scores at the traps are made only when the shells are perfect in every detail. The sure fire primers, quick combustion, high velocity and close pattern are reasons why Dominion shells continue to make such high averages Dominion shells insure positive operation of repeaters
double guns, and every one bears an unqualified guarantee. Your dealer carries them.
Dominion Cartridge Co. Limited Montreal, Canada


## Clark Heaters

Make Winter Driving Comfortable





## To the Man Who is Going to Build Please Send Us Your Name



You'll Get a Lot of Important Facts About RoofsInformation You Need RIGHT NOW-ALL FREE

Like every other sensible man, you are anxious to secure all the information possible BEFORE you plan your buildings, or buy any of the supplies. You cannot know too much-the danger is in know ing too little. There is not much satisfaction in saying "I wish I had known" after the building is up and something you have purchased turns out disappointing. This is why we urge you to consider all the important facts about roofing NOW-before you build. Just send the coupon.

We'll Save Many Dollars of Roofing Expense for the Farmers Who Write NOW
Just be curious-eager to get information-it will save you money and and wil save you trouble. You are not asked to spend any money or anything. Just send us your name and address, and we will put in your hands information that will be worth money to you if you are going to build any new buildings, or repair any old ones. No man can fail to be wiser by having INVESTIGATED the different metals and materials used in modern buildings. Perhaps you won't build or repair your buildings the $\qquad$ decide is after you consider all the FACTS.

Just Write YOUR Name and Address on This Coupon Clip it out, put it in an envelope and mail it to our office nearest you. We will then send you immediately the inadvantage. Sign and send the coupon now.

THE METALLIC ROOFING CO., LIMITED King and Dufferin Sts., Toronto
I am planning to erect a future, and will be glad to receive any information you can send
which will help the build a better building and save money.

You can
buy from us
a l1 kinds of sheet metal ma-
terials articles neal ed for your house or
barn, including the bar
" EASTLLAKE" Metallic Shingle
"Eastlake" Steel Shingles can be layed for shingia. syuare less than any other metaliic years has been invariably chosen by the largest users of metallic roofing and siding in Canada, for
the scores of grain elevators erected every year in the western provinces. No roofing could have a more severe Eat " "Eastlake" Metallic Shingles reduce your roofing cost, protect your buildings from fire, lightning and weather. Give longer se not require painting. "Eastlake" "roofs laid 28 years ago are still giving good service. The only shingle that has been in use in Canada for 28
years-never changed in an important detail of any kind-metal, design
or size-during all that time.
 Coistes chand. "Halitus" Ventilator-Unouestionably ye Metallic Ceiling makes hane more


 cill

If particularly interested in any of these products, ask for further information

## The METALLIC ROOFONG CO. LIMUTED


[^0]:    - not up to the standard. but no doumt anc

[^1]:    Please mention "The Advocate"

