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LONDON, ONTARIO, DECEMBER 18, 1913.
No. 1081



Cunard Line canadian service Immigration Department Special interest to Farmers' Clubs. Wel secure "help" for farmers
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## (20)

$\underset{\substack{\text { STANDARD } \\ \text { GENOINE } \\ \text { Every ine } \\ \text { Ene sold }}}{\text { End }}$



I Doubled My Crops--This story could be told by many C
have used a high-grade POTASH fertilizer. One farmer in Cape Breton, N.S. I . doubled his crop of
potatoes, in fact has just harvested a yield of 735 bushels to the potatoes, in fact has sust arvested a yield of sueld, why can't you?
acre. If he can get such a yin
You surely ought to have plenty of barnyard manure to use.
If so, use it in quantities in connection with 400 lbs . Basic Slag If so, use it in quantities in connection with 400 lbs. Basic Slag
and 160 lbs. Sulfate of Potash to the acre; cultivate well and aou can get a yield similar to his. That is what he did. Another farmer in Cowansville, Que., obtained a yield of 1,666 bushels of mangels to the acre by using 150 lis. Nitrate of
Soda, 400 lbs. Acid Phosphate and 150 Ibs. Muriate of POTASH,
incresing his yield 826 bushels over the plot fertilized with increasing his yield 826 bushels over the plot fertilized with
only Acid Phospate and Nitrate of Soda. only Acid COSPhate and Nitrate of Soda.
826 ITUSHELS MORE ORMER JUST $\$ 3.45$ TO GUGELS. 826 BUSHELS MORE OF MANGELS. and we will tell you how

POTASH PAYS Every crop removes from the soil so much Nitrogen, Phos-
phoric Acid and POTASH. This is the food the plant consumes. If you wish to raise bigger crops, you must put back into the so the plant food that the plant takes up in its natural growth.
You probably understand this, and very likely you use some Sort of fertilizer, but if you are NOT using a fertilizer containing $6 \%$ to $10 \%$ POTASH, you cannot get bigger yields of better
quality. This is because a plant removes from the soil more POTASH than Phosphoric Acid. Ordinarily, low-grade fertil$2 \%$ of POTASH. Certainly this is not more POTASH tha Phosphoric Acid. You must increase this percentage to $6 \%$ to $10 \%$ POTASH. If you want to raise a bumper crop next year Po this. Insist that your fertilizer. If he cannot do this, and you have to buy a low-grade fertilizer, for every ton of low-grade fertilizer you
huy, add 200 to 300 lbs. of Muriate or Sulfate of POTASH, buy, add 200 to 300 bs. of Muriate or saliface of POTASH, and own fertilizer at home if you want to. Our. Agricultural Experts will tell you free how to do this. Get in touch with your
fertilizer dealer now, so that he will be sure to have POTASH on fertilizer feau when you need it. Send us your dealer's name and we will send you FREE booklets on how to increase your yield.
These booklets we know are instructive and are the best on the These booklets we know are instructive and are the best on the
subject, being written by Experts. Write us, telling the kind of crops you raise, giving us the name of your dealer, and we will
see that you get a fertilizer high in POTASH see that you get a fertilizer high ime this winter to study this all-
You will have plenty of time important question, and how to proceed another year to get

bigger yields of better quality from your farm. Wrile us To-day. GERMAN KALI WORKS, Inc., | Temple Radas., |
| :---: |
| Troronto | Having Muriate and Sulfate of poTASH in store at St. John, N.B., Montreal and

Toronto, makes it easy for you to get your POTASH from us.

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Use this on the Farm and in the Home $||/| / /$, NO wasting time over a lantern. Wherever you - you can get it instanlly if you have a "NINE LIVES" ELECTRIC FLASHLIGHT Just press the button and get a bright, powerful gleam
of lightina a iftey, Handy on hudrdedsof occasions.



RAW FURS



ant
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We place graduates in positions


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in your stable, taking out four in your stable, taking out four stead of one, wouldn't that be
worth real money to youl? If you could get the manure many yards from the barn, in spite
of mud or snow-drifts, and not spill
a single speck till you get to the a single speck till you get to the
sleigh or wagon or pile, wouldn't
that be worth dollars and cents to that be worth dollars and conts to
you? And if you knew this could be
done by method that would pay for iteeffin a single winter, wouldn't it be w
gate?
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You can do these very things
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a-ton of manuris ist capacity
one big load cleans your stable. It runs on a level overhead
ander suspended from the mud track, suspended from the mud
sills of your barn, and out along a swing-pole into the yard. 'It's
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Smith's trees are grown from stock known to be true to name, and produced on the choicest land in the Niagara fruit belt. The Nurseries
(900 acres) have been in( 900 acres) have been in-
spected thoroughly by government inspectors, and pronounced free from injurious pests, so that we are able to guarantee our stock "absolutely clean and healthy. than inferior poorly grown trees of doubtful parentage If you are not familiar with the best varieties for your section, will be pleased to assist you, and any assistance from us will cost absolutely nothing, and does not place
the writer under any obligathe writer under
tion to purchase.
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tional

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## Th Farmer's Advocâte Home Magazine

Vol. XLVIII.

## EDITORIAL

Train up a calf in the way he should go, and
an Internawhen two years
tional champion. tional champion. $\qquad$
United States Cong̣ressman has made the discovery that cold storage covers a multitude of the cost of living sins.

The pork packer, now having three strings to his bow. should be in a position to make it worth our while to raise bacon hogs.

Unless in some very exceptional cases, the plowman may now stand aside and observe Far mer John tillage operations.

Among the publication announcements elsewhere in this issue, is a remarkably favorable ncyclopaedia proposition that a great many readers will be glad to embrace.

Many loug centuries aro a successful Roman armer was prosecuted before "The Forum" fo orcery because he grew more abundant crops cultivation.
"Our folks all shouted with glee," writes an old and appreciative reader, "when the rura, mail man left us the big Christmas 'Farmer' coming, hut all the more welcome when it arcoming,
in which newspaThe refreshingly candid way in which newspa pers of both sides of poltics and
avowedly detached exponents of public opinion have called in question the clamor of the railways for extra compensation. because of the incoming parcel's post system, may result in their premat
selves.
Some of the modern achievements on which we Some of the modern achievements on whew in
plume ourselves are not so absolutely new conception after all. $\Lambda$ good many readers of to learn that the great American editor, Horace Greeley, over forty years ago, had sufficient insight into the future to foreshadow the use on the farm and otherwise at long distan
tric power developed at Niagara River.

The men and women of other trades and professions find a good paper devoted to their in-
terests an indispensible aid. And this is more terests an indispensible aid. And many-sidedness
true of farming, because of its true of farming, hecause ore isolated. Having enjoyed the benefits of "The Farmer's Advocate service at this season than by extofding its advantages to others.
It is reported that nearly a dozen Bills ar pending in the United States Congress on the
cost of cost of living. If some of the authors
take off their dress suits and put on farm overalls it might be as effective as their legislativ

LONDON ONTARIO, DECEMBER 18, 1913.

Federal Aid and Provincial Action. Economic conditions, as far as they pertain to
agriculture, have, during the nast few years, been agriculture, have, during the \#nst few years, been as in other countries. Orators have orated upon and writers have raked the far corners of their thought retectors to find seme further advice upon the all important subject of helping the armer produce more abundantily, that they (the exhorters) miight live more chapaply. Our agriguire bracing up, and hindrances to be removed, but, as the present Dominion Minister of Agriculture has many times pointed out in his ad dresses, it needs no "pap feeding." It is entitled to a fair field. Most of the quack doctors who have found a cure-all for the ills of our hasic industry have diagnosed these wrongly,
usually from the statement of 'the case by others usually from the statement of the ease by others
Who have ventureal long-distance advice. The Hon. Martin Burrell, realizing that there was a growing need of a Dominion-wide agricultural policy set to work to inaugurate a campaign to help, where help was needed, and where the people receiving it were endeavoring to help themselves Ontr. ©. Jamen, orveted the oplk Cnding out what the country most needed, and laying plans to meet these needs. From an already wide knowledge of Canada's agricultural conditions and from a year's further specific study of them, Dr. James, than whom no better man coult have been chosen. concotved the ter of working out the rat in in provincen or the advancemeot" in the widest possiblo sense as it applies to apriculture. The beglinning seems to have been made in the right place, and much credit is due the man who so admirably handled such a big question in so short a space of time. In another column netans are given of
the plan as worked out. The beginning has been ed. Ten million dolgrants have been apporte Dominion Treasury to lars in and goen
the various provincos during the next ten years as an aid to better agriculture. A decade leaves plenty of time to work out many of the details of the expenditure as the yearly grants increase, and it is up to the provinces to see that their methods of spending the inoney ill to be spent in goes on. shis
a year, so no great difficulty in finding a place for it has been thrust upon the provinces, and they have been given time to develop the "education" in agriculture.
while "education"
in the hroad sense is not eflucation as it is generally understood, the plan takes in the latter, incluang pushic shoos. the far as school systems are concornea, he control to British North authorities, so, within existing limitations, the Federal Government, through the Minister of Agriculture and Dr. James, have done their share competentiy and "troroughiy held that "Tho armer sour public there is room for mprovem neds our public school systum. into consideration by the educaLional authorities and our text books while they contain a great deal of matter of decided merit from a. literary viewpoint, tend, with other de velopments, to promoto the military, spirit rather than a knowledge of and respect for aturture used in this Province to pay the salaries and ex
penses of six field agents of agricultural education young men, students from the Ontario Agricultural College, who spent the summer months visiting schools, giving short talks of an explanatory nature, embracing instructions in play, addresses to trustees and inspection of Childrens Progress Club work. One of these men organized sociation, while others carried on township educution surveys. The grants are also used to meet expenses of inspectors at short courses, public and high school teachers' travelling expenses to the summer school at Cuelph, exhibite at fairs, special publications, etc. All this may and no doubt does help some, but one hour spent in talking to a teacher or a class or a schoollasting good. The best-informed and cleartittthinking teacher in the world could not hope in so short a time to accomplish very much. The crux of the matter is in the regular teacher training. Ontario has her summer school for teachers at the ngricultural college, and her nature study courses for normal trained teachers,
-where E little is learned and a good time -where and from which a few go away enthusiastic over the possibilities of training the young mind to appreciate nature and things agricul-tural-but lacks effective teacher training in the real ground pork. Educationists have recognized the need of this training, but trying to accomplish it as the teacher labors in the public school cannot bring desis a need, and there is, why not use some of such a need, and there is, why not use some of
the grant to work out a thoroughly rellable system of teacher training in agriculture? Perhens fewer bulletins and a little more actual instruction in the Normal Schools would help. A good deal depends upon the attitude of the educational "powers that be." One thing is sure, that the pubic is about surfeited with bulletins and superficial agri. One of the really good things for the youth has been the school fair work carried on by the District Representatives of the Ontario Department of Agriculture where the plots are grown at home and planned, plant ed, cared for and harvested by the pupils. Overlapping of Departmental work has already been
complained of. There is no use of the Educational Department attempting something thai tional Department attempting something that
the Agricultural Department has accomplished, the Agricutural be in their own field if they planned a re-adjustment of curricula and inserted $1 \mathrm{ittle}{ }^{\circ}$ more pertaining to agriculture in the text books, and in their regular teacher-training

The Good Farmer Succeeds. Director J. H. Grisdale, of the Dominion Experimental Farm, in his conple in the the farmer's year in Canatia in the Christmas armer's tivecament rearding one of the he sugge that the good farmer has had a good year. There is food for thought in Mr. Grisdale's observation. Why should he not have a ood year? As a matter of equity or fairness, the good farmer may reasonably look for good eturns from his season's operatin. We end hat he will, and we are seldond practice usually comber that way. It does so in other pursuits, and it would be an extraordinary upsetting of nature's procedure if in farming things all

The Farmer's Advocate and HOME MAGAZINE
the leading agrictiltural journal in THE DOMINION.

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PUBLISHRD WRRKLY BY

anete forJoHN WELD, MaNaGRr.
Farmarinnind Adocate Man.
2. the farmerg anvoratr and hons magazing














 Adree THE FAREER'S ADVOATE, or THED,
went awry. And even if by reason of what are ealled mishaps to the farmer or the family or from the visitations of drought, wet or storm he suffers reverses, these are usually less severe in Anal result than in case of the shiftless, ill-informed man, and in nine cases out of ten the
good farmer bears his losses with greater composure and fortitude. He is also more likely to rocover quickly from a setback. His resources of will and spirit are greater for he is able to rest upon the bed-rock assurance that time is on
his side, and that the forces for weal are greater his side, and that the forces for weal are greater
than the forces for ill. As in righteousness, so than the forces for in. As in righteousn

Why Fewer Pigs are Produced. There are many reasons advanced for the de-
crease in numbers of hogs being raised and mar-
keted in many of the pork-producing sections of keted in many of the pork-producing sections of
Canada. Ontario has been the leading province Canada. Ontario has been the leading province tario has showed the greatest falling off in the
industry. True, many of the young men have industry. True, many of the young men have
leett the tarms tor city employmment, and, true, thousands of the younger men and older ones, too, have sold their farms or left the old home
atead in the East for wider fields in the West. And besides there has been of late a growing dis like for certain kinds of labor on the farm,
among them being pis feeding and cleaning out
hog pens There should we nothing particularly hog fens There should we nothing particularly
distasteful or unduly laboricus, okout piry feeding Pigs are one of the most mostable classes of live
stock on the farm. There is, however, another very potent factor in the decrease in pork produ tion. We dairying. adian dairying. A few years ago the bulk of th
milk was made into cheese and butter, leavin an abundance of skim milk or whey on the farm both profitable by-products when utilized in mak
ing bacon. There has been a great change Particularly has this been the case with cheese making, which has falien off rapidly, the mik go-
ing elsewhere. The output of butter is increasing elsewhere. The output of it might were it not ing, but not so rapidly as it might wopulations
have increase the demand for whole milk enorhave increased the demand for whole milk enorother plants have been insvalled, all of which take the whole milk. The prices for this latter product have gone higher, in consequence of the increased demand, than it was possible to obtain from selling the milk to the cheese or butter factories. Perhaps if the value of all the byproducts left on the farm, when cheese and butce ance up with the apparently higher returns from selling whole milk: However, the difference in price between that ohtained for whole milk for city trade and for the same product to the cheese and butter factory has been sufficient to change the methods of dairying followed on many farms, and where the change has heen made it has not been found so profitable to raise pigs in large
numbers. There is nothing quite so suitable for young pigs as skim milk, and without it greater akill in feeding is required to make newly-weaned pigs grow rapidly. Perhaps this change has been, more than any other one condition, responsible for the falling off in bacon production. Pigs and milk go well together, and the feeder accustomed to having plenty of milk for his pigs cannot satisfy himself to feed them without it. make his operation in the pig business quite so successful without skim milk or whey. If the cities and powder plants continue to get the whole milk we need not look for a very rapid increase of bacon hog rearing

## Good Roads and Good Citizenship

 Gbling them to people closer together by en whether on foot or by wagon or by automobileor other means, through satiofactory and well-
maintained highways will be or other means, through satisfactory and well
maintained highways will be a great step to-
ward insuring better citizenship by the better ward insuring better citizenship by the better
ment of educational, social and economic advan tages."
Seris is the epitome which David F. Houston Secretary of Agriculture in the United States, applies to the relationship hetween good road and good citizenship. Better facilities for educa
tion, greater ease of social intercourse, and saving of thousands in the marketing of crops, ail of which good-road systems accomplish must make for a better citizenship. Good roads are a mark of the progress of civilization. The simplifying and perfecting of the various moderi means of communication and transportation have advanced very rapidy, but as ant and most beneficial of all, have failed en tirely to keep pace with these advanceraents. The road question is the one transportation question which demands the attention of all the people. It is olike the business of the smallest municipality, and even the most indirectly interested individual in that municipality, and the most.
ment.
The question is, which is the best plan, to in augurate a system of good roads feeding local markets with ample provision made for maintenance or " transcontinental highway or highways
touching large cities and towns. "The Farmer's
mediate neighborhood-with a single stretch of modidway running for about four thousand miles without regard to subsidiary highways. ally considered in touring circles, where pleasur more than usefulness, and picturesqueness rathe than economic value, seem the first requirements transcontinental roads connecting capitals and cities of commercial importance appeals to me, such good roads as will enable us to get products from the community farms to the nearest railroad stations and make rural life more profit
able, comfortable and pleasurable. able, comfortable and pleasurahle. Such roads oreration of adequate elementary and secondary
schools for the beneint of the country boys and schools for
girls." How true ! a system of good roads in every county leading to the local market centers and railway stations is the foremost consideration Once these are accomplished there need be no ready a reality. Let the municipalities get busy with the aid of the Provincial and Federal Governments, and lay their plans to cover maintenance as well as construction. There is absolute ly no use of spending good money in building roads without ample provision for maintenance. The road question is a very commission is busy try just now. In Ontario a commads in different counties. Thinking men may well apply their powers to road matters. It is a national quespowers to road matters.

Federal Aid to Agriculture by Provinces.
the Honorable Mr. Burrell, Minister of Agriculture, hrought down
appropriations aggregating $\$ 500,000$ to assint the provinces in their agricultural work. This sum was divided according to population, and
the grants varied from $\$ 6,530$ for Prince Edward the grants $\$ 175,733$ for Ontario. The two main
Island to conditions laid down were that the provinces
were to spend these sums on approved agriculwere to spend these sums on approved aglement their regular appropriations. No special restrictions were laid down as to the lines of expendi-
ture. It was expressly stated by the Minister that these grants were merely preliminary to a After a year's enquiry and consultation it was determined that much valuable and permanent benefit would result if assistance were given
along the line of education, interpreting that along the line of education, interpreting tuat word along "Education, instruction and demon-
defines it as
stration." Evidently it was thought that the stration." Evidently it was thought that the
agricultural industry could be materially helped agricultural industry could be materially helped
if instruction along many lines could be provided for or conveyed to the farmer and his family.
Schemes or plans of instruction carried out by Schemes or plans of instruction carried out oy ency, therefore, the Minister made provision for grants covering a period of ten years. The
grants for $1913-14$ total $\$ 700,000$ or $\$ 200,000$ more than for the previous year. This extra amount is divided as follows: $\$ 20,000$ to be dividided among the Veterinary Colleges, of which
there are now two in Canada, and $\$ 20,000$ to there are now two in Canada, and $\$ 20,000$ to
each of the nine provinces. Thus, this year each province receives $\$ 20,000$ more than it did las
year. There is an annual increase of one hun dred thousand dollars in the total. The yearly
grants work out, therefore, as follows, according grants work out, therefore, as follows, accor
to the table in Hon. Mr. Burrell's address :

New Brunswick
Alherta $\begin{aligned} & \text { British Columbia }\end{aligned}$
British Columb
Manitoba
Nova Scotia....
Quecec
Ontario


Alvocate" has it may be of interest to our readers to know that this latter form
of good road would be an automobile tourists Whasure path, and not the most necessary and of the rural population educationally, socially or what the various provincial departments are do-
iny whth these grants, and, therefore, we have
compiled the following notes through the Federal grants to the showing how, latter have been enabled to enlarge their opera-
tions and undertake new work Prince Edward Island.-First of all the De-


 hichway-made up of throughout the country
touch at many points
each a unit of immense economic value to its im-

DECEMBER 18, 1913
dance has heen away beyond all expectation. out the province in sheep and poultry husbandry and in horticulture. Courses in agriculture have
been established at Prince of Wales College. Women's Institutes have been inaugurated, and the public schools.
Nova Scotia.-During the past two years uildings and equipment of the Maritime Agriculural College, at Truro, and additional in
tructors have been appointed on the staff. Th College has also undertaken a considerable amount ot the province and, enlarging the influence
parts of
Womens' Institutes have been of the College. Womens' Institutes have been
assisted, and summer courses in agriculture for teachers have been conducter. A large amount New Brurswick.-Two agricultural schools are being estabsecial travelling instruct ors have bee ppointed. Demonstration trains have been run A Director of Agricultural instruction for public stablished and school gardens encouraged. Womens' Institutes are heing organizod and courses iven in domestic science. Demonstration work, lso, is being undertaken along several lines
poultry, beekeeping, dairying and horticulture. Quebec.-First of all $\$ 20,000$ each has beon
handed over to the three teaching institutions, Macdonald College, Oka and Ste Anne De La Pocatiere for equipment, additional instructors
and extension work. Some assistance is being given to normal schools. for teachers and to domestic science schools. The rest of the grant is heing used for demosatration work in poultry,
bacon production, fruit growing, apiculture, maple sugar making, crop production, clover and
and
demonstration trains
are prounderdrainage. it is also proposed to locate some
vided for. It
cunty istrist relres nntatives. ccunty or district relires ntatives.
Ontario.-During the past two years the Federal grants have made possible several imcultural Coltege at Guelphing, $\$ 50,0,00$, and some other additions, $\$ 5,-$ 500. No less a sum than $\$ 80,000$ has been added this year to the regular provincial appropriations Nearly every line of instruction and demonstration work carried on by the Depart-
ment has been assisted-underdrainage, short courses, fruit growing, vegetable growing, beekeeping and soil cultivation. Domestic science coublic school instruction in agriculture is being Public school instruction for rural public schools is
developed. Fa! fairs for a most promising line of work that is belng Manitoba.-The most elahorate work underfarm work, a very thorough system having been inaugurated to demonstrate the best methods o crop rotation and to encourage the growing on
alfalfa-the whole scheme being planned to encourage mixed farming. Travelling instructors are employed, and a special feature is the giving
af instruction to the foreign settlers in various districts. Demonstration trains and short courses also are provided for, with the pubica-
tion of a special series of popular farm bulletins. tion of a special series and girls are assisted.
Farm clubs for boys and Saskatchewan. - This Province carries on
through its Agricultural College a lot of work that in other provinces is done by the immediate staff of the department. The grant, therefore is divided, one-hall going to the college at Saskatoon, which has added a number of instructork
whose work is mainly that of extension or tak ing instruction to farmers. The departmental officers are using their half of the grant in dem-
onstration work and in giving instruction in dairying, live stock, and weed destruction. Alberta.-About $\$ 40,000$ of the three agribeing used in the maintenance of the Claresholm, cultural schools recently The huildings for these
Olds and Vermilion. schools were erected at a cost of $\$ 30$, school is
The equipment added $\$ 80,000$. Each The equipment added $\$ 80,00$ farm. The Provin-
erected at a demmonstration cial Department will add equipment and buill be used as required, and the Federal grant will be used as
for maintenance. These schools will or maintenance.
centres for extension work. Field husbandry, animal husbandry, farm mechanics and The per-
science are the subjects provided for. science are the sumssisted from time to time be
manent staffi is ass provincial officers of the department.
British $\begin{gathered}\text { Columbia. -Instructors in in } \\ \text { agriculture }\end{gathered}$
Womens and short courses are prove the organization int courses of instruction. Fruit packing and
of
stock judging competitions are held. Demonstrastock judging competitions are held. production,
tion work is carried on in crop pardens are dairying and horticulture. School gardens are assisted.
From the foregoing statement it will be seen From the foregoing Provincial Departments are
that the various Paral
heartily co-operating with Hon. Mr. Burrell in

THE FARMER'S ADVOCATE.
working out the scheme which he provided for in
his bill of last session, and which became operative on the firs of April, 1.1933 . It might be
mentioned here that the Lever Bill of somewhat similar nature was introduced into the House of Representatives of the United States on April
4th, 1912, was passed on August 23rd, 1912, but has
Senate.

## Nature's Diary

## In our letal B. Klugh, M

which plants secure their raw wathe way in manufacture them into starch. Starch is a com-
pound which is insoluble in water and conse quently has to be changed to some soluble sub parts of the plant. This substance is sugar which is formed from the starch by the action of chemical agents known as ferments. Part of the
sugar may he used in building up the cells of the sugar may he used in building up the cells of the
plant, part of it may act as a "fuel" to be burnt (oxidized) to supply energy, while the rest is carried to the stem or root to be stored, after
being reconverted into starch, for future ume. Wo know well enough that we can get sugar from the sap of the sugar maple during the growing
season, but where is the sugar during the winseason, but where is the sugar during the win-
ter?
gif we make a chemical test on a twig of sugar maple in spring or summer we can dotect
sugar, but in the fall and winter we find starch sugar, but in the fall and winter we find starch. as digestion.
ing up its tissues is called assimilation. This process goes on in all the living parts of the of which substances are termed carbohydrates from the fact that they are composed of
carbon and the elements of water) is united with the nitrogen, sulphur and phosphorus
un form proteids. The three last named elements to form proteids. The three last named elements


#### Abstract

the appearance of a "wilted" plant, and we know that it may be rendered rigid again by supplying it with plenty of water. Hence one function of it with plenty of water. Hence one function of water is the maintenance of rigidity or turgid Water is the maintenance of rigidity or turgid- ity, as it is termed in plant physiology. To meo how water acts in maintaining turgidity we have only to take a rubber tube, which, when empty, is quite "flabby," tie one end, attach it to the tap and turn on the water. The tube will then be comparatively firm and rigid. ap and turn on the water. Ther pemparatively frrm and rigid. Plants in taking up and ore than in theying up salts from the soil absorb leids, and also take up some salts. Which are of no service to them. When the water, in which these salts have been carried up to the leaves, ile given oft through the stomata the salts are ioft behind. This is why a bonfire of leave mart sench a surprisingly large heap of ashes. An such abundant constituent of burnt leaves in silica, substance chemically the same as sand. Thit substance chemically the same as sand. the plant is forced to absorb along with the potsuhbtampounds of phosphorus, and other useful sound in the soil water, but alnec is ailica is of hardly any value to most plants, it Lime is much more useful to the plant that silica, but a far larger quantity of it is absorbthe leaf. Wo see then that when a doead leat falls to the ground it carries with it the watt material of the tree, and the loaves thus plas part, in quite a different. way, it is true, but the


## THE HORSE.

A Drafter and His Load.
 trates, sulphates and phosphates in the soil. The
proteids are most highly complex substances, and protoplasm, the living matter itself of both
plants and animals is a proteid. plants
A plant in taking in water with the dissolved needed for the manufacture of carbohydrates. This excess is given ofi through the stomata, and
the process is termed transpiration. The functhe process is termed transpiration. The func-
tion of the guard-cells of the stomata is to reguate transpiration. When the plant has an ex-
cess of water the guard-cells stand wide apart at cess of water the guard-cells stand wide apart in the form of water-vapor. When there is no excess of water the guard-cells are closed. The amount of water transpired oy the plants is
large. During 173 days of growth a corn plant large. During 173 days of growth a corn plan
has been found to give off nearly 31 pounds of water. In 140 days a suneower plant gave of
145 pounds. A grass-plant gives of its own weight of water every twenty-four hours in hot
summer weather. This would mean that about six and a half tons of water would be given off from an acre of meadow in twenty-four hours.
A birch tree, standing in open ground, was found to transpire, from seven to nine hundred pounds
in a hot day. in a hot day.
We have
We have referred to the use of water in
the formation of carbohydrates and as a solvent the formation it has another very important
for salts, but it
function in the plant. We are all familiar with
day ways of thinhing, extremely like th3 Small would call him a Galloway-meaning, of co
the racing pony called by that name to-day. he racing pony called by that name to-aay. Tarding him was that he belonged to a political offender, or an outlaw, who rode him from
the country to Porlock, and escaped by sea to
 well nigh three years Katerfelto was running froe
and wild with the ponies of Exmoor, and his inand wild with the ponies of Exmoor, and his inerable one. Much of the prosent-day blood can traced to him. many tales told of this once
There have been maser ane "The Druid" believed spectral steeple-chaser, and ""The Druid" believed that Katerfelto's dam, stolen by some gipples,
proved in foal to an Arab stallion ; but the verproved in foal to an Arab stallion; but the ver-
sinn recorded herein was given by the late
Eroude Bellew to the late George Froude Bellew to the late George $S$. Lowe, who
made such a special study of horse and pony made such a special study of horse and pony The evolution of the Exmoor pony also reads
Sir Thomas Ackland and John
like a romance. Knight were the actual pioneer breeders of the
type type upon a large scale. reghe
came from their mares as regulary as clockwork.
They fell chiefly as buff-bays or browns, and They fell chiefly as bufl-bays or browns, and
many of them had mealy mouths, hut there were a few chestnuts and greys. The fame of the pony spread far, and
ing of these Exmoors.

 He was a. dum
with a black "،bit" with a black "blt" down hie back, and
he presented all tho he ppearanted of
aploge
blood-like
$\qquad$ 10 (1) Exmoor once possessed what was, for quite a long time, thought to be a spectral horse. Thit was none other than Katerfelto, an animal of
some fourteen hands, which roamed the moors,




At a cost of 81, ool some Dongola stallions-



 moor, but in the end the Knight family became
convinead that there
was
nothing like



 Port by sir Hercules were ued in the midale of


 and wide inh.
Thh tatede. .S. Lowe stood convinced that the Knight ponee did a lot ot yood to the general
breefing stock of North Devon horses.
The halt
 huntery when mated back to the Thoroughbred
againy
in
. 1890 Sir Frederick Knight had got his


 ing ponies from, either with the aid of th
treac stallion or the small Thoroughbed. Thoses who care to investigate the history of
he pony must be struck with the wondertul part
 production or ideal mounts, be they yor the hunt-
ing field, tor Hyde Parks, or tor army purposes. ing field, for Hyde forke or or murny purposes








## LIVE STOCK

Some Startling Figures on Live Stock Exportation.
The removal of the tariff on live stock going subject of much discussion recently. Even before the new tariff laws took effect on October 4 th thousands of head of canadis. While more cattle than other classes of stock went across the line, the offieial figures show also an increase in the exports of sheep and horses. We obtained from
the Customs Department at ottawa the figures
for August, September, ectebter and November, 1912, and for the same months this season. During these four months in 1912,7 Cana to the
valued at $\$ 219,427$, went from Cana valued at $\$ 219,42$, went year, 1,270 horses, valued at $\$ 346,450$, or 517
head of an increase. valued at $\$ 127,023$, were head In exported from Canada to that an an increase in xport for 1913. For the four months in 1912 10,279 sheep, valued at $\$ 55,526$, crossed 14, 179 sheep, valued at $\$ 78,001$, were exported to the United States, showing an increase of 3,900 head and an increase in vatue or how by far the
As would be expected, cattle show
greatest increase. In 1912, from August 1st to As wouncrease. In 1912, from August 1st to
greatest in
November 30th, 12,950 cattle, valued at $\$ 655$, November soth, here to the American markets,
999, went from
wnule in the same months this year 167,225 heaa wrue in the same months by Canada to our cousins to the south, being a increase for four months alone, and during on of
two of which the new tarif wast operating, of
154,275 animals and a difference in value of $\$ 4$, , 154,275 animals and a difference in value of $\$ 4$,
736,714 . In October, 1912 , the vallue of cattle exported to the United States was $\$ 269,682$,
while for the same month, 1913 , the value was whi, 87,242 . The trade is increasing, for it
November. 1913, $\$ 2,929,157$ worth of cattl went south, as against $\$ 316,473$ for the same month last year. The big increases are all duing the two mone figures are, to say the least startling. An idea of the effect the new tarim
is exerting on the supplies of live stock in this There is not enough stock in Canada to maintain this very long and supply our own markets.
During last. November $\$ 3,077,521$ worth of During last November $\$ 3,077,521$ worth of
horses, cattle and sheep left Canada for United
Ctates markets, and nearly $\$ \$, 00,000$ of this
moncy was paid for cattle. This has meant a
great deal to the stock feeders of this country, but a note of caution is sounded in these figures.
The man who sells off too much stock will not The man who sells off too much stock will not
be prepared to reap the rich rewards next year
and during following years. Study the figures
俍 and during following
exports to united states


The Grand Champion.
This steer, owned by Jas. Leask \& Sons, Greenbank,
at the recent Toronto Junction Fat-stock Show, an ries and sold for 30 c . per 1 b . tries and quality of stock shown it compares Merrick \& Graham. Sunderland, second went to the Dominion. At the late show, held on to John Black, Fergus ecember 6th and 8th, there was a total entry Among other winners in the cattle classes of them representing a finished product of a quality fit to compete in any showring in the world. n fact. Mr. Ferguson, of the Swift Co., who had
nst returned from the International at Chicago ust returned from the International at Chicago,
said the majority of the individual classes, showa a decidedly better balance and more uniform-
ity than the same classes at Chicago, and of the sheep exhibit, H. S. Arkell, Assistant Live Stock commissioner. Ottawa, who had also just re in fitting and quality to the Chicago entries and it was expressed to the writer by the Stock Yards management that. in their opinion, the live-stock breaders in the best interests of the of the several fat stock shows as held at present,
the launching of one monster national show would eclipse anything of the kind held in the vorld and would demonstrate to the world th superiority of Canada as a live-stock breedin
ground of a perfection not reached in any othe country, individual cattle classes, there was a breds. The judges in these classes, were Charles
MeCurdy, Toronto ; W. R. Elliott, Guelph, and J. M. McCallum. Shakespeare. The championship in the pure-bred classes was won by the en-
try of A. Barber, of Guelph, and in the grade classes by Roan Champion, last fall's champion
at the Canadian National. Here he was declared
e winner over John Lowe's Black Monarch, was given the champlonship honors, a complete reversal of judgment, and opinions were divided as to which judgment was right. Reren Cham
pion was bred and fitted by James Leask \& Son pion was bred and fitted by James Leask \& Son, of Greenbank, and at this show in the final for
grand champion over all was given the decision over Barber's pure-bred, and netted his owner
ove neat little sum of $\$ 120.00$ in cash and the neat little sum of $\$ 120.00$ in cash and a
$\$ 25.00$ gold medal.
In the carload lots, the awards were made by In the carload lots, the awards were made by

B. Slattery, Ottawa; G. H. Walker and Alex | B. Slattery, Ottawa; |
| :--- |
| Levack, Toronto. For carload of 15 steers 1,200 | pounds and over there was an entry of twenty:

for carload of 15 steers under 1,200 pounds there were eight entries; for carload of 15 heifers
fourteen entries. The Harris Abattoir special of fourteen entries. The Harris Abattoir special of
$\$ 500.00$ for carload of 15 steers under 1,300 pounds, without horns, was won by J. D. Lar kin, of Queenston, on, an entry of Aberdeen-An-
gus, and the same lot won the $\$ 150.00$ offered gus, and the same lot won the $\$ 150,00$ offered
for best carload of 15 steers under 1,200 pounds The $\$ 150.000$ offered for carload of 15 steers 1,
The
200 200 pounds and over was taken by J. Brown \&
Sons, Galt, and the $\$ 100.00$ offered by Gunns Sons, Galt, and the $\$ 10$ butcher heifers 1,100 pounds and under was won by A. White, Guelph. The Swift Canadian Company special of $\$ 100.00$
for 20 breeders' steers or heifers under 1,150
 Galt. The Matthew-Laing special of $\$ 50.00$ for 10 steers without horns, under $\frac{1,300}{}$ pounds,
was won by A. A. Armstrong, Fergus, and a was won by A. A. Armstrong, Fergus, and a
special of $\$ 100.00$ for 15 heifers, average weight,

Chesley.
In the sheep sections, the judges were Fred Arkell, A. S. Chapelle and Josh. Ingham. For
a carload of 50 fat sheep, the $\$ 40.00$ offered went to John Houston, Chatham, and second n Black, Fergus. Car-
load of 50 lambs, weth-
ers or ewes, the Swift Canadian special of
$\$ 75.00$ went to A. $\begin{array}{cc}\$ 75.00 & \text { went to A. } \\ \text { White, Guelph. In the }\end{array}$ White, Guelph. In the carlot of 50 fat sheep
went to John Houston went to John Houston, Chatham, and the carlot
of 50 lambs wethers or ewes, went to D. Han
ley, Cainsville - the ley, Cainsville - th
prizes same as above. The judges in t swine division were C. G. Vanstone, R. Carter and W. J. Johnstone.
Gunns Limited tpecial of Gunns
$\$ 10.00$ for carload of
50 bacon hogs, 180 to 50 bacon hogs, 180 to
220 pounds, went to 220 pounds, went
 Canadian spec:al of
$\$ 75.00$ for carload of 50
 pounds, went to James load of 50 bacou hogs,
180 to 225 pounds, first price of $\$ 50.00$ wetnt b Among other winners in the cattle classes
were W. O. Coon, Penville; Jas. Stone, Saint-
fild. Won caster; : Alex. Voung, Glanford, and Kyle Bros.

Pigs that Paid
Editor "The Farmer's Advocate". from a bunch of pigs I fed the past summer. had 15 pigs at first, but two died when weighing alout 100 lhs . each. I fed cooked beans and pigs and barley chop as well as shorts. The higs ran outside most of the time until near the foor quality, not having the beans were ond here is a statement of expent wel $2,900 \mathrm{lbs}$ shorts at $\mathrm{So3}$ per 2,900 lbs. shorts at $\$ 23$ per ton ....
70 bushels of oats at 35 c . per bushel
. $\$ 21.80$

24.50 26 bushels barley at 50c. per bushel …... $\quad$| 24.50 |
| :--- |
| 6 | ar beans at 50c. per bushel … 23.00 The twelve pirs weighed 2,590 lbs. and at

$\$ 8.35$ brouktht $\$ 216.25$. One pig was butchered valued at $\$ 18$, making a total of $\$ 234.25$, leav-
ing a profit of $\$ 151.95$, or $\$ 11.68$ per head a profit of $\$ 151.95$, or $\$ 11.68$ per head.

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DECEMBER 18, 1913
What Feed Care will do.
Editor "The Farmer's Advocate":
The pair of pure-bered Shorthorn calves illus-
The harewith were bred and fed by R. H. Scott The pair of pure-bred Shorthorn calves hllus-
trated herewith were red and Led by R. H. Socte
\& Sons, Middlesex Coo., Ont., and sired by the the
 herd. When sold they were under a year old and
wrighed about one thousand pounds each, which wieneaks well for the breding and feeding. The
steers were sold to $a$ London butcher for the sters were sold to a London butcher fror the
Christmas market at $\$ 80.0$ each; ; the price of
 were fed principally the same feed as the cham
tion steer at the Chicago Fat. Stock Show. pion steer at the Chicago fat stock Sow. At
the start they were nursed by their dams, and
then were ofd what ground up oats they would eat up
dt thicee months old they were fed clean. At meal in andition to the ground oats,
molasses meal the alfalfa hay they would eat. AAter
mot all molasses meal in ana they would eat. After
mith all the alafif hay the
s.tort time barley and oats were fed, one of a short time barley and oats ate whe rate of about
barley to three of oats and at the rate barley ourts each per day, and the molasses meal
tencuased to about three pounds each per day.
tnoreased ten quarts to about three pounds each per day.
incresed calves never refused their feed once all the
These These calves never refused their feed once all the
time they were feeding. They also got few
the the


THE FARM.
Artificial Fertilizers Their Nature and Use III.
By B. I.eslie Emslie C. D. A., P. A. S.I., F. C. S. "The simple husbandman can till his field and, by knowledge he has gained of its soil, sow
it with the fit grain, though the deep rocks and
and central fires are unknown to him--his inctie crop sails through whole untracked celestial spaces,
between Aries and Libra; nevertheless it ripens berween iries ae season, and he gathers it safe into his barn." "simple husbandman." to whom Carlyle thus refers, hardly finds a counterpart in the thus refers, har former of to-day, whose knowledge of
average farm's erust extends beyond the superficial
the earth's the earth's crust extends beyond the supericicial
layer, which his plow upturns. He knows that layer, which his plow upturns. He knows that
the far-seeing Providence, whose solicitude prothe far-seeing Providence, whe increasing population of the earth with
vided the the valuable coal measures, also anticipated the
needs of agriculture in storing up those remarkneeds of agriculture in storing up those remark
able subterranean deposits of nitrate of soda
phosphate rock and potash salts, the discovery phosphate rock and potash salts, the discovery
of which, in due season, has furnished the farmer of which, in due season, has furnished the the pro
of to-day with the means of increasing the prome
ductivity of his soil, to meet the world's grow ing demand for food
itrogen.
The atmosphere contains ahout 78 per cent. of
nitrogen, 21 per cent. of oxygen, one-third of one per cent. of carbon dioxide and traces of other gases. The fact that plants derive their supply of carbon from the carbon dioxide of the air, has already been noted, abundant volume, seems to be confined to one special order of plants (leguminosae, , legumes, embracing nitrogen is the most expensive element in a fertilizer, the atmospheric nitrogen is avail themselves of the atmossherencr. Its importance prohibits here the riscussion,
FERTIITZFRS FMPLOYed AS A SOURCE OF
Nitrate of soda ( 15 to 16 per cent. nitrogen)Nitrate of soda, which has its origin in the rainless districts on the western coast source of
America, is still the most popular sot mown as America, is still crude material, known as
nitrocen. The
"caliche., ""aliche," orcurs in close proximity to the sur-
face and, as no shaft-sinking is necessary, minface and, as no shaft-sinking is neties, the salt-
ing operations present few difficultieses of dynaing operations presesened by charges of dyna-
bed being simply loosened
mite, inserted in the vertical bore-holes. mite, inserted in the vertical borcerned with the
We are not particularly concen formed, but the most accentable theory seems to he that the nitrate beds were laid seaweed. The
oxidised drainage from decaving
prone proportion of nitrate in the caliche varies frcm-
30 to 50 per cent. and by processes of concentration and recrystalization the commerained.
duct of about 95 per cent. purity is obtained Since all nitrogenous compounds must first be converted into nitrates, hefore contains its
lated by plants, nitrate of soda cond nitro, rapid in action. Owing to this fact, care must be taken in its aptication ist climates and
loss by leaching, especially in moist loss hy leaching, especialis. In general it ought
on the lighter class of soils. Tise not to be applied before seedrable to apply it in
certain conditions, it is advisab intervals of from two or more applic
two to three weeks.

THE FARMER'S ADVOCATE

Some authorities claim that the continued use
compounds by means of electrical energy. Their
efforts have already been rewarded with a large Some authorities claim that the continued use compounds by means of electrical energy. a large
of nitrate of soda on heavy clay soils destroys efforts have already been rewarded with
their the their texture and makes them sticky, while measure of success for not only has the feasion
others hold that, on the contrary, such soils are ity of the process been demonstrated, but several rendered more friable thereby. The writer is of nitrogenous fertilizers, thus produced, have, durthe opinion that with the moderate applications $\begin{aligned} & \text { ing recent years, been ortered on the market, the } \\ & \text { of nitrate of soda, used in ceneral farm practice, } \\ & \text { price per pound of nitrogen in the same being }\end{aligned}$ of nitrate of soda, used in general farm practice,
no such effects, either beneficial or detrimental, are noticeable. On account of the very quick and noticeable esults, which follow the application of nitrate o
soda to a growing crop, some are tempted to use large amounts of nitrate and to neglect the supply of the other ingredients, which are essen
tial to the proper development of the plant. Sial to the proper development, of the plant.
SUTIMATE OF AMMONAA. (19 to 21 per cent.
Nitrogen) - The oricrin or source of this material


Two Baby Beeves.
Fed by R. H. Scott \& Sons, Middlesex Co., Ont., and sold at eleven months of
is coal, which contains one and one-hale to two on into an electric er and carbon compounds. At a containay lime of gas works and is produced to a large extent of nearly one thousand degrees centigrade the in Europe, where it ranks next in importance to nitrogen is induced to combine with the lime nitrate of scda as a nitrogerous fertilizer. Al-
though less rapid in action than the latter, sulphate of ammonia is by no means slow-acting.
plants. Rhate becoming available to plants, the ammonia is first of all converted into a nitrate,
chiefly nitrate of lime, by soil bacteria. In wellchiefly nitrate of lime, where nitrification is rapid, sulphate of ammonia may be said to be almost
inmediately avallable. The nitric acid which is ifrmediately avalable. The in the process of conversion requires lime to form the nitrate. The
sulphate or sulphuric acid part of the sulphate of sulphate or sulphuric acid part of combines with lime and, in the
ammonia also


Shropshire Shearling Ram. tion in Germany witzerland besides Italy. France, Norway and Switzerland, besides one at Niagara Falls, which
produces the same substance under the trade produces "cye same, "substance uncer the trade the cyanaminid produced here has more of a
crystalline structure and does not possess some crystalline structure and does not possess some
of the objectionable features, assoctated with the oripinal lime nitrogen. Some years ago, then in
Cirmany, the writer conducted experiments with Ciermany, the writer conducted experiments with
the then new lime nitrogen to test its efficacy the then new lime nitrogen to test its efficacy
in comparison. with nitrate of soda and sulpate
of ammonia. The results obtained indicated that under suitable gen would prove a profitable nitrogen fertil-
izer, althoug not quite
equal to the others used in the test. Lhime
nitrogen is an exceednitrogen is an exceed-
iugly fine black pow-
der, even finer than
basic slag, which it somewhat resembles
this characteristic ren ders it, difficult of ap
plication. If mixed in plication. If mixed in
large quantitles with other fertilizers, such mixture rapidly gener ates a great heat an
gases are given of
some nitrogen some nitrogen bein
lost as ammonia and
oxides of nitrogen lost as ammonia
oxides of nitrogen. I
storing, it must staring, it must
very carefully protec very carefully protect ed from moisture or
this reason. Being at
first rather poisonous first rather poisonpu
to plants lime nitro to plants lime nitro-
gen is totally to a growing crop, and
should always be ap should always be ap-
plied to the land at plied to the land at
least two weeks before
seeding: and at once seeding; and at once
cultivated in. cultivated in. Fertilizer manufacturers find it impracticabie
use more than 80 to 100 pounds of nitrogen
 plied to sole The This being provided, sulphate of ture, and have to employ some other
supply of lime. ammonia may be preferred to nitrate of soda on soils of or wet seasons. climates or wet seasons. OF ATMOSPHERIC NTTROGEN.-Owing to the increasing demand for
nitrogenous fertilizers, such as nitrate of soda and sulphate of ammonia, and in view of their bern devoting their attentio free nitrogen of the problem of capturing the it in stable chemical

NITRATE, OF LIME. ( 13 per cent. nitrate).This material is also the product of the fixation of atmospheric nitrogen, but the process is diflerent to that employed in the manufacture of inme nitrogen. One operation consists in passing enormous electric arcs, furnishing a, temperature of about 3,000 degrees C., which brings
about a union of the nitrogen and oxygen of the
tir. The mixture of gases is quickily cooled to oxidising chamber, the dioxide being then converted into the tetroxide of nitrogen. As an
assorbent slaked lime is used, resulting in the absorbent slaked lime is used, resulting in the to apply this method on a large scale was made coda as a base, nitrate of soda was formed, but owing to difficultios in the operation of the plant the enterprise was not financially successful. The irst mention Bradley and Lovesoy, is known as the Berkeland and Eyde process, and is in operation at Notodden and Telemarken in Norway. At jower will be available for the generation of
electric energy. As in the case of lime nitrogen electric energy. As in the case of lime nitrogen or cyanamic, nitrate the latter material is also hydroscopic in character, i. e., it draws moisture from
the surrounding atmosphere. To oflset this tenthe surrounding atmosphere. To offset this ten-
dency quick lime is sometimes added to the madency quick lime is sometimes adied to the ma-
terial to keep it in a dry condition, and probab-
ly satisfactory means will yet be discovered to satisfactory means will yet be discovered to
remaove many of the detrimental features, which remave many of the detrimental foatures
these new nitrogenous fertilizers possees.
(To be continued.)

## HORTICULTURE.

Fruit Growing Possibilities in the North.
Editor "The Farmer's Advocate" : The planting out of 75 acres of apple trees on St. Joseph's sland, near the selt of Ontario. The northern limit of commercial-apple growing has
been set as the territory around the southern been set as the territory around the southern
hore of Georgian Bay or possibly a little thurther north. But extending the area for the successful growing of fruit to the district around the Soo has not been undertaken without careful
consideration of the results of experimental planting, which has been carried on by some able end enthusisstic men of that vicinity. In following up the experimental work, by the experimuld as to the possibility for fruit growing in Northern Ontario. These observa
tions resulted in the following conclusions: Win tions injury is responsible for the majority of the ter incessful plantings and is of no consequence on trees of the hardier varieties which had not
previously been injured. Making use of the methods of prevention for the various forms of winter injury has been followed by excellent re
uults. Borers and mice have been quite effective sults. Borers and mice have been quite effective
in their efforts to keep the fruit belt within its in their efforts to keep the limits and it seems there is yet to bo discovered somee satisfactory means fo
their control Recently a nursery has been their control. Recently a nursery has been
tarted on the Island and this should prove of groat value in increasing the longevity and hardi
great of the trees. The trees do not grow to the ese of the trees. The trees do not grow to the
eize of those in Southern Ontario. For this
eno reason, as well as for the added protection,
aser planting can be followed. eloser planting can be followed.
part from the other sections in the variety o ruits that can be successfully grown. They not the trees are carrofully coddled, but also when given the mare general care of the comomercial archard The 75 acres previously mentioned Dudley, Wealthy and crabapple. Several acres were interplanted with gooseberries and currants. This ocmparatively large planting has been undertaken hy two companies operating from the
Soo. It was carried out only after careful inveatigation of the orchards in bearing which were proving the adaptability of several varieties to the Island conds killing back was found to be very much lessened. The sandy soils dry out very much qussened. the clay and check a late,
nore quickly than
and sappy growth. Protection the greatest consideration in prevention of given the greatest consideration in prevention of
winter injury in its many forms. As a protecwinter aygainst sunscald, the northerly slope in-
tion ane
areases in virtue as one goes north. The much ereases in virtue as one goes north. The much
commented on windbreak has certainly proved a commented on windrreak has certainly proved a
valuahle weapon in the fight against winter infury and has established itself as a necessary
feature of the orchard. The cold, dry wind of leature of the orcbard. The cold, dry wind of the north is the most serious age trunk and branches. The variety question is the solution eredit is due Chas. Young, of Richard's Landing, eredit is due chas. Young, rarieties. Those of special merit are Mclntosh, Duchess, Hibernal, Ducley, and
and Hyslop crabapples.
Hise northern districts there were generally one or two truits. The prices re folly growing the small fruits. The prices re
ceived for fresh fruits in the North is a surprise
to those accustomed to Southern prices. When fruit in Manitoulin without a trunk and with one considers the demand and high prices for very little pruning other than that will make a
these it is remarkable how few there nre who more compact form. The rows are interplanted these it is remarkable how few there are who more compact form. evergeen trees, showing that less the local trade. Any of the commercial considerable advantage is derived from shading
lond varieties of gooseberries and currants will suc- and checking of evaporation. Thus, while a few
ceed admirably in Northern Ontario. Straw- years ago people did not consider that fruit could ceed admirably in Northern Ontario, Straw- years ago people diorth, it is now being demon-
berries, while being more widely planted, often be grown in the norther rewarded the grower with a poor crop. Lisually strated that it is not the extreme cold that hin this was brought about by neglect in the sclec- ders production of truit and for combating the man tion of varieties and again by lack of protection
during the winter. This again illustrates how few people give consideration to a change of edy the situation. A late strawberry, as a rule, can be depended upon as hardy, for it is in the
freezing of the blossom that the fruit suffers rreezing of the blossom that the fruit suffers most from frost. Beder Wood, Parsons and
Haverland varieties were found satisfactory in a variety of conditions. Protection may be had by the use of strawy manure in the locations
where the snow does not lie in winter. Some very interesting developments in whe use of sumbreaks were noticed in connection with the red
respherries. It is doubtful if this fruit can be raspberries. It is doubtful if this Pruit, can be
grown commercially north of St. Joseph's Island grown commercially north of it was only seen to produce fruit in well-pro-
as it
tected and closed-in gardens. In the open it tected and closed-in gardens. In the open it would invariably freeze back to the ground ex-
cept in very favorable seasons. In several cases cept in very favorable seasons. on the north of
when the patch was situated on
shelter, whether on the fringe of bush or buildshelter, whether on the fringe of bush or build
ings, the plant close to protection showed least ings, the plants close to protection showed leas
signs of injury, while those further out evidenced signs of injury, while those further out evidenced
very clearly the ill eflects of the strong spring
gun
sun. man might be easily duped into believing A man might be easily duped into believing that raspberries could be grown without protec-
tion because of the variance of the seasons, as
some are much more favorable than others. Consome are much more favorable than others. Concerning varieties of raspberries, it would be
impossible from information gathered this past season to form any accurate opinion. The ob-
servations were so contradictory. The Columservations were so contradictory. The Colum
bian raspberry, a variety stated by Mr. Macoun, bian raspberry, a variety stated by Mr. Macoun
of the Central Experimental Farm, to be subject to winter killing, was the only raspberry which I found to be uniformly hardy over the entire
territory. People would say that they had tried
Pater other varieties time and again without success Of course, the killing of the other varieties may have been accidental, hus tamhatever variety is preferred, the protection derived from a sun-
break will be largely influential in determining a successive crop of fruit.
It was my privilege while travelling through this country to observe some of the worst, cases of winter injury and it would have been impossi
ble not to have formed some impressions as to causes and prevention. Besides, what I have said as to the influence of sunbreaks, windbreaks, soils, aspect and elevation in minimizing the ex-
tent of winter injury, the fact that apples are ent of winter injury, the fact that apples are
being produced in Manitoulin proves to us that much of the injury found in lower Ontario might
be largely overcome by observing a little care in me largely overcome by observing a little care in
a few of the above points. Trees are producing


Herefords, the Great White-faced Grazers.

## THE APIARY.

## Bee-keeping, Intensive Agriculture

 When it comes right down to real intensivoagriculture beekeeping wing in a walk. The pro fits from an acre or two of land, often poor land at that, are frequently enormous, it requiring Iour figures to express them. The beekeeper may mis, but the man who understands the business thoroughly, embarks upon it on a small scale at firrt, learns it and grows up with it, seldom is "stung" as applied to the financial end of the
 very sman capt The outlay for land is small, and
trifing sum
no costly stables aro required, most beekeopers, ocostly stables are required, most beekeopers,
with a little extra precaution, wintering their with a little extra precaution, to operate the beear outide. extra labor being needed most of the
apiar on
ne year. The bees feed over wide areas and the raw
naterial is thus the cheapest on earth, and to material is thus the cheapeste beekeeping offers heem opportunitiees, , ior orly during four or five
great
onths of the vear is it necessary to work hard months of the year is it necessary to work hard;
however during the summer season in largo however during the summer season in large
apiaries everyone must be up and doing. There will be swarms galore unless swarming is con-
rolled by giving the bees plenty of room in the trolled by giving the bees plenty of room in the
spring to roise
brood and pring to raise brood and and also queen cells should be cut out. It is absolutely necessary that the beekeper knows
the condition of every colony just as well as the the condition of every colony just as well as the
stockman knows the condition of each individual stockman hnows talls. Bese soon get to know the
animal in his
nand person who cares for them and rarely is it tha
judicious apiarist gets into an argument with a judicious apiarist gets into an argument with
his insect moneynakers, the best and steadiest
mos. his insect moneymakers, the best and steadiest
workers in the world. They may have thot
teet" but they turn in the "old cash." There teot" but they turn in the "cold cash." There
to $a$ growing market for honey, one of the wholeis a growing market for honey, one or the
somest profucts of the farm. Keep bees.

Clean, Wholesome, Effective. Enclosed please find order for my renewal to
The Farmer's Advocate and Home Magazine' The a farmer subscription with compliments of and a new subscription with compliments of the paper. Your clean, wholesome and effective ad
vocacy of all questions of interest to farmers it of great value
Jacques Cartier Co., Quebec. J. NEWTON.

DECEMBE

THE DAIRY。
The Great Dairy Test at Guelph The dairy branch of the cuelph Fair attracts
many visitors，and none are disappointed
close inspection of the wonder－
ful producers on exhibition．
bitors of dairy cattle have long comi－ plained of the lack of accommodation and
suitable quarters for their animals，but other do suitable quarters for their animals，but other de－
partments are likewise congested and will likewise tend to impress upon the authorities and any in－
stitution from whence help mipht he forthcoming
the absolute necessity of a scheme for expansion．

SHORTHORNS．
Aged cow－1，Bessie of Lowbanks，F．Martindale \＆Son，York．．．
Aged cow－2，Gipsy Lady 2nd，Estate of A．W．Smith，Maple Three－year－old cow－1，Kentucky Rose 40th，James Brown， Under－three－years，cow－1，Lady Braemar，James Brown，Norval．

AYRSHIRES
Aged cow－1，White Floss，A．S．Turner \＆Sons，Ryckman＇s Corn Aged cow－2，Annie Hume，H．C．Hamill，Box Grove ．．．．．．．．．．．．．
Aged cow－3，Briery 2nd of Springbank，A．S．Turner \＆Sors．
Aged cow－4，Lena of Fairfield，Reginald J．A．Smith，Iatch－ Aged cow－5，Jessie，A．S．．Turner \＆Sons．．． Atyree cow－year－old cow－1，White L．ass，J．L．Stansell，Straffordville．

 Three－year－old cow－4，Starlight of Fairfield，Reg．J A．Smith．．．．
Three－year－old cow－5，Betsy Brown，A．S．Turner \＆Sons．．．．．．．
Three－year－old cow－6，Dairy Maid of Hickory Hill，N．Dyment．

 Turner \＆Sons ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．
 Holifer，undeins


Aged cow－1，Maid of Dentonia，D．A．Boyle，Woodstock，Ont．．
Three－year－old cow－1，Brampton Wonder Beauty，B．H．Bull \＆ Shree year－old cow－2，Brampton Czarina，B．H．Buill \＆Som ©．．．．．
Three－year－old cow－3，Rena＇s Cobalt，Wm．James Beatty




 grades．
－Pine Grove Bell．Willis bros．Pine Grove


$\begin{array}{llll}\text { Lbs．} & \text { Lbs．} & \text { Lbs．} & \text { Days Total } \\ \text { milk } & \text { fat } & \text { s．n．f．} \\ \text { milk } & \text { points }\end{array}$ $\begin{array}{lllll}153.6 & 5.37 & 14.4 & 35 & 178.10\end{array}$ $\begin{array}{llll}122.2 & 5.01 & 11.79 & 63 \\ 163.93\end{array}$
 $\begin{array}{llll}168.2 \\ 15.23 & 15.43 & 32 & 227.30 \\ 1517\end{array}$



 | 151.7 | 6.21 | 14.71 | 20 |
| :--- | :--- | :--- | :--- |
| 149.9 |  |  |  |
| 14.988 |  |  |  |


 $\begin{array}{lllll}91.0 & 3.54 & 8.62 & 107 & 122.28\end{array}$ $\begin{array}{llll}92.3 & 3.60 & 8.99 & 23 \\ 1039 & 119.29\end{array}$

\section*{$\begin{array}{lllll}255.9 & 9.14 & 18.79 & 12 & 288.10\end{array}$} | 2259.4 | 8.02 | 21.27 | 27 | 264.5 |
| :--- | :--- | :--- | :--- | :--- |
| 208.7 | 8.03 | 19.33 | 37 | 259.56 |
| 224.8 | 7.64 | 20.51 | 17 | 252.62 |
| 211.8 | 7.30 | 19.08 | 33 | 240.64 |
| 2 | 29.7 |  |  |  | $\begin{array}{llll}249.7 & 6.86 & 22.00 & 12 \\ 23 & 247.66 \\ & 18.71 & 18.75 & 13 \\ 224.00\end{array}$ $\begin{array}{lll}200.3 & 6.71 & 18.75 \\ 184.5 & 6.82 & 17.43\end{array}$ $\begin{array}{llll}191.8 & 6.52 & 17.54\end{array}$ $\begin{array}{lllll} & 12 & 6.52 & 17.54 & 12\end{array} 215.68$ $\begin{array}{lllll}203.2 & 5.99 & 17.24 & 41 & 202.69 \\ 180 . & 6.03 & 15.90 & 52 & 200.67\end{array}$ | 180.0 | 6.03 | 15.90 | 52 | 200.67 |
| :--- | :--- | :--- | :--- | :--- |
| 168.1 | 5.04 | 14.16 | 20 | 168.55 | $\begin{array}{lllll}185.7 & 7.05 & 17.13 & 26 & 227.80 \\ 18.7\end{array}$ $\begin{array}{lllll}184.7 & 6.74 & 16.69 & 26 & 218.01 \\ 188.1 & 6.30 & 17.54 & 13 & 210.18 \\ 181.3 & 6.16 & 17.22 & 15 & 205.77\end{array}$ $\begin{array}{lllll}188.1 & 6.30 & 17.54 & 13 & 210.18 \\ 181.3 & 6.16 & 17.22 & 15 & 205.77\end{array}$ $\begin{array}{lllll}166.2 & 6.31 & 15.29 & 17 & 203.76\end{array}$ $\begin{array}{llllll}177.2 & 5.38 & 16.45 & 14 & 183.90 \\ 163.8 & 5.33 & 14.06 & 52 & 177.48\end{array}$ $141.1 \quad 4.79 \quad 12.66-158.62$ $\begin{array}{lllll}181.4 & 7.16 & 17.66 & 13 & 232.12\end{array}$ | 164.5 | 6.64 | 15.29 | 18 | 214.50 |
| :--- | :--- | :--- | :--- | :--- | － 5.918 .74 $\begin{array}{lllll}160.8 & 5.62 & 14.62 & 30 & 184.56\end{array}$ $\begin{array}{llllll}142.0 & 4.75 & 12.57 & 61 & 159.14\end{array}$

$\begin{array}{llllll}116.9 & 5.26 & 11.55 & 85 & 1.71 & 1 ; 3\end{array}$ $\begin{array}{rrrrr}109.3 & 4.44 & 10.31 & 138 & 151.96 \\ 96.8 & 4.77 & 9.42 & 40 & 149.06\end{array}$ $\begin{array}{rrrrr}34.1 & 4.45 & 8.36 & 141 & 146.53 \\ 125.9 & 5.35 & 12.35 & 32 & 171.02\end{array}$ $\begin{array}{rllll}107.2 & 5.52 & 10.51 & 21 & 169.57 \\ \mathbf{9 7} .5 & 4.97 & 10.01 & & \end{array}$ $88.4 \quad 5.03 \quad 8 \quad 8.5 \quad 55 \quad 154.12$ $\begin{array}{lllll}80.6 & 4.55 & 7.78 & 99 & 144.11\end{array}$ $\begin{array}{rrrrr}104.6 & 4.39 & 9.98 & 63 & 143.09 \\ 78.2 & 4.06 & 8.05 & 130 & 135.82\end{array}$
$\begin{array}{lllll}247.2 & 6.55 & 21.26 & 51 & 229.66\end{array}$
$\begin{array}{lllll}201.5 & 6.85 & 18.38 & 40 & 227.43 \\ 216.9 & 7.80 & 19.9 & 41 & 256.01 \\ & 18.18 & & 110\end{array}$ $\begin{array}{ccccc}216.9 & 7.80 & 1.9 .9 & 41 & 256.01 \\ 170.9 & 6.75 & 15.18 & 36 & 214.92 \\ 864 & 3.75 & 8.49 & 146 & 129.46\end{array}$

Notwithstanding conditions the dairy entries showed an increase this year，and although in－
dividual tests have been higher，in rare instances in the past，the general average this year is $\underset{\text { Th }}{\text { Fair }}$ The crusade in favor of the milking Short－
horns has brought that type of animal to the horns has brought that type of animal to the
front and their performance this year was
creditable indeed creditable indeed．In most years cow after cow would not qualify for any prize as a producer of year，did they fail to come up to the require ments of the milk－test standard．
Jerseys also came forward in greater number and increased their records to a marked degree hile Ayrshires still maintained their standing as productive breed．In ald there were ten more
entries than in the previous year． Other breeds gave way this year to Calamity
One nolstein，as the name in osch Wayne 3rd，a Holstein，as the name in dicates，as champion producer of the entire ex－
hibit．Her score of points was 288.10 ，showing an increase of 35.61 points over last year＇s champion＂Cherry＂，a grade cow．In 1911 the
record was 272.78 ，＂and in the year previous 291．4．The test is completed in three days，
and the scale of points adhered to when making and the scale of points adhered to when，making
the awards is 25 points for each pound of butter－fat，three points for each pound of solids not fat（ $\mathrm{S} N . \mathrm{F}$ ．），and one point for each ten
days in milk after the first thirty，with a limit days in milk
of ten points
Butter and Cheese Makers Have a Lively Meeting
The annual meeting of the Butter and Cheese Building of the O．A．Colllege．on December 10th，
during Winter Fair week，was one of the largest． during Winter Fair week，was one of the largest，
liveliest，most enthusiastic meetings which has been held for some time by the men who preside
over the manufacture of butter and cheese in the over the manufacture of butter and cheese in the
western part of the Province．There was also a western part of the Province
sprinkling of men from east S．E．Facey，President of the Western Dairy－ mens＇Association presided with good grace and
good senne，qualities not alwways found in a chair－ good sense，qualities not always ound in had pre－
man．Frank Herrs，Sec＇y．W．D．A．，had pres
pared a list of interesting topics to be discussed， pared a list of interesting topics to be discussed，
with＂live wire＂＇men to lead in each case．There with＂live wire＂men to leadent during the whole
was scarcely a dull moment dur
afterncon，and the discussion from＂the floor of afternoon，and the discussion from＂the floor of
the house＂，showed that the men who wield the the house＂showed that the men who wield the
ladle in the creamery and the bandager in the ladle in the creamery and the bandager in
creamery know how to express themsolves
public meeting if given a chance to do so． public meeting if given a chance to do so．
The discussions of greatest interest centered The discussions of greatest interest centered
around the creamery，the cheesemen being not so
well represented as the buttermen．As a number well represented as the buttermen．As a number
of makers have orders for saltless butter，the of makers have orders for saltless butter，the
question has arisen，should $a$ creameryman re－ question has arisen，should a creameryman mores for such hutter as compared
ceive more meney with salt butter，and if so，how much more in
order to come out even．
Experiments made at the の．A．C．showed an Experiments made at the naking salt butter as compared．with saltless． The practical men said they figured that the price xtra for saltess butter，owing to the fact that loser inspection of butter for moisture content Wint of $J$ rule in future，owing to the appoint was agreed that buttermakers should provide a moisture test and use it，in order to avoid pro－ secutions．G．H．Barr，Chief of the Dairy
Division，Ottawa，said he did not wish to have Division，Ottawa，said he did not wish to have
the painful duty of prosecuting any Western On－ the painful dut．
tario makers．
The storing of ice，cream grading，and testing
The chief con－ of cream were fully
clusions reached wer
1．Fach and every patron of a creamery
1． ought to provide not less than one ton（two or
three tons better）of ice，per cow，for the coming three tons better）of ice，per cow，for the coming
season．Some creamerymen are assisting patrons
to get a supply of ice．On many farms a pond to get a supply of ice．On many farms a pond
can be made at small cost to provide all the ice can ted for several farms．This should be operat－ ed on the co－operative plan，and thus ice can be
eot at small cost． 2．Mr．Barr said the Province of Ontario is
ehind the Western Provinces in the matter of behind the Western Provinces in the matter of
cream and butter quality，and gave figures show－ ing how the quality of butter had improved very much in 11 berta creameries after adopting the
grading system，and paving from two to four cents a pound iat more ior first－crade cream．A prominent buyer present said that he was un－ abter made in Western Ontario creameries．＂We would not touch it with a ten－foot pole，was his expression in reference to this hutter．that
the evidence points very strongly to the fact that
something must be done in order to improve the something must her in some creameries．Lack of cooling cream on the farm，and delivery of cream but once or twice a ween
chief cause of poor butter
standard a standard cream test bottle，and 3．That a standard cream trest tests，to－
standard methods of making cream ter
gether with penalties for over－reading or under－
interesting features, ambong which was a state-
ment of the estimated osses due to careless prise you to read that they estimate losses from


 000, and from musty eggs epicting in coin these
Directly under the cases deping amounts, we read the easiest and most effective manner of covering these, in order tularly, remove more frequinds, pack carefully, keep nest clean, and pack in dry, clean fillers. The Figg incte idea was again brought before set in a background of white eggs, and the ad vantages of the egr circle were explained to in quirers as being better price. more frequent mar-
keting, the elimination of unnecessary middlemen and delighted customers. The ontario Agricultural College educational
exhibit tok the form of
plucke denans dinal tion held each day and which rivew large consds
They andso had ontibion models
 the various improved ypes or Moust people
troughs, watering troughs etc. Many took great interest in the piles of grain, etc.,
showing the exact amount of feed which the showing the exact amount of feed which the
average well-fed hen consumes annually. We average wel-ed hen consumes ana, 24 Ios.
give them here: wheat, 24 ths ; corn rolledo onts, 24 Ihs. ; buttermilk, 90 Ibs.; green
food, 36 ms.; ; grit, 1.75 ths., and oyster shell, 2.5 hs. Also many people stopped to look over
the hen which, at the Colleege, has layed as many the hen which, at the College, has layed an many
as 282 eggs in one year. She stood in her ooop as 282 eggs in one year. She stood in her coop
side by side with two other hens, one of which represented the average hen of Ontario which pro-
duces only 100 egas, and the other an average duces only 100 eggs, and the other an average
hen from the bred-to-lay pen at Guelph, in which hen from the bredto-lay pen at Guelph, in which
150 eggs werer laved by bach individual. Instruc-
tively and from the viewpoint of the poutry 150 eggs were eayed by each individual. Instruc-
tively, and from the viepoont of the poulry
fancier and visitor alike, othis was the greatest. fancier and visitor alike, this was the greates


Cora ${ }_{1}^{\top}$ Countess Echo.
Senior and grand champion Holstein cow at the New
Toronto. $\begin{aligned} & \text { Owned by Hiram Dyment, }\end{aligned}$

## FARM BULLETIN.

## Why Seven ?

To-day I am tying sisnals of distress. 1 am in troulle e, The edrorn for me, and it contains
vice and criticism meant for a mystery that is too deep for my comprehension.'
I wonder if any of the readers of "'The Farmer's I wonder if any of the readers
Advocate, can interpret. Here is the passage Advocate can int has obscated me:
"First in regard to the mice eating his treas.
I think I can give him a good method to exterI think I can give hin a good method to exter-
minate those pests. If he will keep seven cats minate those pests. Ih he will keep seven cats
(as we do) and feed them well, the mice will soon $\underset{\text { vanish." sounds all right, Competent cats are }}{\text { That se }}$ That sounds all right, Competent cats are
wonderfully effective in dealing with mice but wonderfully effective esen ealing with mice, but
why should $I$ have seven signicicance in the number seven? Wouldn't
eifght cats be even better? As a matter of pure eight cats be even better? As a matter of pure
reason I should say that eight would be better, reason Innot help wondering whether some mysti-
but I cannor cal meaning attaches to the number seven. Be
sides ins importance in sacred symbolism it playsides its importance in sacred symbocism it play-
ed a leading part in the Pythakorean system of ed a leading part occurs frequently in astroloo ory and folk-1.ore. Seven is a number with a history and a veiled import and 1 cannot help wondering
whether we could discover something that would le of importance to scientific methods of farming if we got to the bottum of sevenness of things.
It does not do to to supercilious about anything
the It does not do to be supercilious about anything
that may lead to the discovery of new truth or
the re-discovery of old. But to return to the mystery of the seven cats. As I grapple with it
I begin to recall rhymes dealing with the number seven and even with cats
"As I was going to St. Ives
I met a man with seven wives.
Each wife had a sack,
Each sack had a cat,
Each cat had a kit,
Each cat had a kit,
Kits, cats, sacks and wives,
How many were going to St. Ives?
You can see that seven cats had some significance away back in the dim days of Mother
Goose. As I meditate on this a stanza from Goose. As I meditate on this a stanza from
Alice in Wonderland presents itself for parody:

> "If seven cats with seven kits Caught mice for half a year

Do you supposo," the Farmer said,
"I doubt it,", said the Farmer's Wife,
'T doubt it," said the F
We have three cats and they are doing wonders. Almost every time I see them they are
watching for a mouse or growling over one they have caught. 1 wonder if I should get four more. But I guess I needn't bother. Sinmeone
will be sure to come along before the winter is over and drop a bagful of superfluous cats in the neighborhood. It is a little way that some people have

Speaking of the mice, I find that they are getting thinned out. The cats and the dog are stantly hovering about the fields. At night we hear both screech and hooting owls that are probably mousing about the place, and when we were hauling in the
cornstalks we killed a hundred or more. We also killer over thirty
rats, so we are hopeful rats, so we are hopeful
that in time we shall overcome these pests. And before I forget it
let me record the fact let me record te fact that mice have sprung.
a new trick on men.
One day when crossing through the youn
orchard I found orchard tree that ha toppled over. On ex
amining it, I discover ed that it had been completely gnawed off
below the surface of below the surface of
the ground. $A$ few dhe ground. fler I found a
mouse-hole a foot or so from a tree and
followed it up. I
found that although found that although
the tree 1 oo oked all right above the ground
the mice had tunnelled undas, ont. $\begin{array}{r}\text { among the roots a nd } \\ \text { had girdled every one } \\ \text { of them for several inches. What } \\ \text { are we }\end{array}$ of them for several inches. What are we
going to do about that ? No system of protec-
tion that II have heard of will help in such a cion that I have heard of will help in such at
case as that. But stay. I must not jump at case as that. But stay. I must not jump at
conclusions. Perhaps it is to meet such subtlety on the part of the mice that I should iave the
mystical number of seven cats. I wonder if that mystical number of seven cats. I wonder if that

In another part of her letter of comment my
correspondent
writes referring correspondent writes-referring to some parar
graphs on the November storm : graphs on the November storm :
"I am also very much surprised that peter Mcarthur, who has heen giving instruction to so as to have his Lecrhorns roosting in the times (Draw your cap well down over your face, Peter the I know you are blushing). I am a lover of i must say if you lived in a God fearing, but munity as I do you would have them all properly I have just taken a peep in the looking glass
and fail to find a trace of a blush. And as for the cap :
"His bonnet sits fu' fair on his brow, Also I wish to call my correspondent's atten fion to the fact that $T$ spoke of only one Legof being ashamed, I point with pride to the fact It is the best possible evidence that ing am tree. ing a real farmer. Scientifice farmers or amateur
farmers may have everything in such excellent
order that no hen ever roosts in a tree, but who
ever heard of a real farmer whose hens were not ever heard of a real ? No picture of a real farm
given to such tricks ?
o complete without a few hens roosting in the given to stechithout a few hens roosting in the
is complete whe
trees. Perhaps you remember the story about the artist who painted a picture of a itter of
little pigs eating out of a trough. It was very
much admired by the critics and city people in much admired by the critics and city people in
generall, but one day a real farmer came along
and drawled : "Wal, that's the fust time I ever and drawled : "Wal, that's the fust time I ever
seed nine little pigs eatin' without one of them
俍 having his foot in the trough." The artist at
once changed his picture, for he understood the great artistic truth that a true work of art must
have some imperfection in it or it is beyond humav sympathy. 1 stand up for that storm-beat-
en hen on artistic grounds. But there is one
point raised by my correspondent that I wish
correct. She says that I have been giving in correct. She says that I have been piving in-
struction in these letters. If I did, at least as without knowing it. Anging is concerned, it was
getmer who tries to get practical instructions from my contributions
does it at his proper peril. He should look for that sort of thing in the editorials and the articles by specialists in farming. All I undertake
to do is to talk things over with other weak, erring human teings like myself, and to have an
occasional laugh with them over the troubles we occasional laugh with them over
meet with in our everyday lives.

At the present writing we are having perfect
its way winter is just as enjoyable as summer. us. When winter is approaching we stand and and
us. shiver like a ooy about to take his first swim in
the spring, but after the plunge has been taken he spring, but after the plunge has been taken
everything is glorious. ${ }^{\text {The crisp snow under }}$ foot and the bracing air act like a tonic and life
in the clean, white fields is as enjoyable as when the flowers, are in bloon. Besidos, it is in the and most of us have the time to enjoy it properly. At this season our spirits are effervescent
and we are in the mood to talk nonsense write and we are in the mood to talk nonsense, write
nonsense, and even to be patient with the nonnonsense, and even to be patient with the non-
sense of other people. I hope you will take that as a sufflcient justificati
I have written to-day.

## Some Instructive Lectures at Guelph.

Wach year the management of the Provincial deep-milking cow will usually become thin before pro Winter Fair secures a number of prominent agri-
culturists, specialists in their particular lines, to address the large numbers who avail themselves of this opportunity to enhance their knowledge
of the business in which they are engaged. It of the business while judging was in progress in the ring and
the management have endeavored, as far as possible, to arrange the program so that there
would be as little conflict as possible between would be as little confict as possible between
these two important departments at the great
show. To some extent they have succeeded, but show. To some extent they have succeeded, and
sometimes the judging gets behind time and ometimes the judging gets behind a few people
then the lectures are held back and
However, great interest get tired of waiting. However, great interest
was taken this year in most of the lectures, staiion enrolment, the dairy Shorthorn, seed lec
tures, lightning rods, and dairy and swine lec
tures being drawing cards, which brought out tures, being drawing card

THE DAIRY SHORTHORN
In introducing the subject of dairy. Short ornt that he had no intention of belittling the mportance of other breeds, which are doing ex-
eollent work. The question has been asked ver cellent work.
frequently, "Is there such a thing as a dair
Shorthorn ?" Some have claimed that there ot, others admit that there is such a thing, that it is of relatively smail importance.
Any person who has visited England and who has studied at first hand the live stock and the
methods of farming in that country will very eadily admit that there is such a thing as a dair
Shorthorn, because in England we find mor Shorthorns than anything in the dairy herds o that country. The largest dairy herd which Prof
Day visiteu in England belong to J. \& $H$. Rob
Rob These people have a contract
inson, in Sussex. The supply the city of Brighton with five hundred gallons of milk per day, and they have nothing but Shorthorn cattle in their herd. cut they are
they are not all pedigreed cattle, but
essentially Shorthorns. In fact, it is rather an exception to sue anything lut Shorthorn cattle on English dairy farms. Such being the case,
there is no room to doubt that there is such a thing as a dairy Shorthorn.
the dairy Shorthorn. Many study the origin of we call "short pedigreed" cattle, that is to say,
the first recorded cow has been admitted to registration since Volume 40 of cartes producers was pong to this class, and, of course, according to the rules of the Dominion Shorthorn Herd Book, they are not eligible for registration in our Herd
Book. A purchaser of dairy Shorthorns, there Book. A purchaser of dard and will find that he
fore, must be on his guard excellent cows if he
must leave behind many must leave behind many excellent cows in or
wishes to record his cattle in the Canadian or American Shorthorn Herd Books. Many pro ducers have as long pedigrees as any shorting to cattle in existence, note that the most popular Shorthorn cattle note that the moeders of dairy Shorthorns al most invariably trace to the herd of molking
Bates. It is a remarkable fact that the milk and Bates. It is a remarkable thomas Bates an
qualities so highly prized by Them these years, come once more to the front an make Bates cattle the most popular car familie
England to-day. In many of the dairy we find cows to-day of practically straight Bate breeding, and it seems somewhat strange to se
wealthy men again spending money lavishly to wealthy men again spending money laveld, ol
secure representatives of some of these old, secure representatives of some OMmbidge Rose
tribes, such as the Barringtons, Cambresthorpe, Ox Darlington, Duchess, Furbelow, Foggathorpe,
ford, Waterloo, Wild Eyes and many others whose fame for years was apparently obscure
but which has once more come to the front. In appearance the dairy Shorthorn is likely to
disappoint those who are familiar only with the disappoint those who are familiar only with the
beef type. People are apt to forget that a
the end of her milking period and they expect a give enough milk to properly nourish her calf. alike so far as conformation is concerned. You may the show and allow it to become very thin, and you will he surprised how angular it will be
come; how the broad back becomes narrow and sharp, and the wide shoulder top contracts to
less than half of its present width ; how the full less than half of its present width; how the full no the length of the neck, and how the animal will approach in general angularity of appearance casual observer, therefore, is liable tow. jump to casual observer, therefore, is liable to jump to
the conclusion, that the dairy Shorthorn is an
undesirable type of Shorthorn, simply, because he undesirable type of Shorthorn, simply because he
sees her shorn largely of the fat which covers up and smooths over the angularities of her beef sis ter. If we were to take one of these same anfeed her liberally, we would be surprised to se
how closely, after all, she would eventually ap proach the beef type. Gcenerally speaking, how-
prow ever, there is a difference between the general
ype of the dairy Shorthorn and that of the approved beef type in Shorthorn cattle. The dairy Shorthorn is usually a little longer in the face, a little longer in the neck, slightly longer in the
leg, and more angular in her general conforme tion than the approved beef standard would per mit. In other words, she is a little more nearly
like the old-fashioned Bates cattle than the present Scotch type. While this is true, no person
can deny that thashioned Bates cow was an extremely useful animal for beef purposes, in
spite of the fact that she did not quite conform spite of the fact that she did not quite conto
to the ideal beef form as we regard it to-day.
While having no records of them, Prof. Day saw in England quite a number of steers which
the producer of feeders in this country would be delighted to secure, although they might not
make show animals. As to milk production, it make show animals. As rear to obtain milk records, though even this side of the question has been more or less
neglected in some herds. Being what we call a "dual purpose" breed, we would not expect to find any world's records in this breed, but we would naturally expect to find such records as
would justify the breed to be classed as a profitable dairy breed. of individual cow records one of the best, if not the best, is that of the cow
known as Darlington Cranford 5th. Her highest yearly record was $12,567 \mathrm{lbs}$. a recora which
has been beaten by a number of other cows for has been beaten by a number of other cows ar-
the best one year's production, but this remarkable cow produced over 100,000 pounds of milk
in ten consecutive years, a record which places in ten consecutive years, a record which places
her among the really high-class dairy cows. The Tring Park herd of Shorthorns, owned by Lord Rothschild, is one of the prominent herds in Eng
land to-day, and in this herd very careful records land to-day, and in this herd very careful recoras
are kept of each one's production. The latest yearly record for this herd which he has been
able to secure is that for the year 1911. In able to secure is that for the year 1911. In
that year 74 Shorthorn cows were in the herd during the whole year, and their records and everages are given apart from those who were in
a highest record was made by a cow called Dor othy, which produced 12,851 pounds of milk, an cows was 6,058 pounds per cow. When we consider the number of cows included in this test we must admit that it is a fairly good showing eveviously mentioned has an average yearly production of 9,722 pounds of milk for eight years. Another cow has an average record or seven cow has an averace record for eleven years of 7,124 pounds of milk per annum. In the herd of
the late George Taylor there were 32 cows which the late George 10,000 pounds of milk each per an-
averaged over 10,000
num, a record of which any dairy breed might be
proud, but perhaps enough has been said to give
an idea of the possibilities of the Shorthorn as a an idea of the possibilities of the Shorthorn as a
dairy cow, and the persistence with which the
tenant farmers in tenant farmers in England appear to cling to
this bred is pretty exclusive evidence of its We have discussed the dairy Shorthorn from various points of view, but there is still one
other point to be considered and that is this : "Is there a place in insidered and that is this :
cow of this kind $?$ ". It seems agriculture for a cow of this kind in Canadian agriculture for a
It seems to me that she probably does not come directly into competition
for public favor with the recognized dairy breeds for the reason that the dairy Shorthorn is not
for thet
regarded as a special dairy breed and conse regarded as a special dairy breed and conse-
quently cannot be reasonably expected to give us a maximum production of milk or butter. While
a manne this is true, there are many farmers in this Province who do not wish, or who do not find it
practicable to make a specialty of dairying and
it is to this class of farmers that the practicable to make a specialty of dairying and
it is to this class of farmers that the dairy
Shorthorn will especially appeal, for the reason Shorthorn will especially appeal, for the reason that she will pay her way in milk and produce a
calf which tit is profitable to raise for beef purposes. The greatent dimimcultyy in the way of the poses. The greatest dimculty the wayparative
scarcaity. It is Shorthorns is the that they exist in rather scarcity. It is true that they exist in rathor
large numbers in England, but the demand from
other countries, as well as the demand at home, large numbers in England, but the demand from
other countries, as well as the demand at home,
far exceeds the supply, and the result is that these cattle cannot be bought in England to-day or what they are worth. Such being the case,
a person will naturally ask : "How then is the dairy Shorthorn to find a place in Canada, is it
cannot be bought for what it is worth ?, It cannot be bought for what it is worth ?" It is only one thing, to do, and that is to make the
best of what we have. There are many excellent best o what we have. There are many excellent
milking Shorthorns in this country already if
they could only be sifted out and have their milking Shorthorns in this country alreedy if
they could only be sifted out and have their
merit recognized. The fact that Bates blood is merit recognized. The fact that Bates blood is
very popular among breeders of dairy' Shorthorns very popular among breeders of dairy' Shorthorns
in England, but deep-milking qualities are not in England, but deep-miking qualitios are not
confined to cattle of this breeding by any means,
and it is possible to find cows of straight Scotch and it is possible to find cows of straight Scotch
breeding which would make proftable dairy cows breeding which would make proftable dairy cow
if the owner saw fit to develop them along that line. A few years ago the College owned an im
ported Scotch-bred cow belonging to the Roan ported Scotch-bred cow belonging to the Roan
Lady family, This cow nursed her first two
calves, which every person will calves, which every person will admit was very
bad training for a heiler in the way of develop ing her milking qualities. With her third call she was milked and a record kept of her produc cion. In the year she produced over 6,000
pounds of milk and there is little doubt if this cow had been milked from the start she would
have made a really proftable dairy cow. This is only one case, but cows of this kind are num-
erous throughout this Province if we would only erous throughout this Province if we would only
take the trouble to find them out. The present take the trouble to finion Shorthorn Breeders' Association in establishing a record of merit for mill production should bring, in the course of time,
lot of good cows to the front. and as time goes on tit will be possible, for those who are
interested in dairy Shorthorns, to make selection f sires from large-producing dams and in this way increase the milking qualities of their herd. It will no doubt take years to bring the dairy
shorthorn into prominence in this country pecially as it is difficult to make importations at. a reasonable cost, but the persistent use of sires from deep-milking dams and the careful selection opment of dairy qualities in the Shorthorn cattle in this country. What will be the ultimate positry remains the dairy Shorthorn in this counShorthorn cattle have it in their power to develop a dual-purpose breed of great possibilities,
provided they see fit to do so. The whole matter now
breeders.
THE OBJECT OF DRAFT-HORSE BREEDING Prof. G. E. Day, at the lecture to the horse
breeders, by a series of slides reproduced from

## THE FARMER'S ADVOCATE

eliminate the scrub horse, that is true, and "The
Farmer's Advocate" has supported stallion enFarmer's Advocate" has supported stallion en-
rolment, believing that the Government would go farther and when conditions warrant bring about sone measure which would aid in the matter. There are those, however, who think it impossible to legislate good horses into the country,
and there is strong ground for some of their ar and there is There is no doubt but that the best methods would be for the breeders themselves to
elininate the scrub, but if they will not do this, eliminate the scrub, but if they will not do this,
it sometimes is necessary to legislate a litle it sometimes is necessary to legislate a little graded 1, 2, 3, and this is done by competent
men, it should have some effect. But if the Act men, it should have some effect. But if the Act
becomes overburdened with machinery, and too
many men are connected with its operation, there many men are connected with its operation, there
is grave danger that everything will not run is grave danger that everything will not run
smoothly in connection with the working out of smoothys. Some good horsemen are in favor of the Act and some are against it, all realizing that as far as it has gone it has not accom-
plished what it set out to do, but a beginning was necessary somewhere and it is more than was necessary somewhere to start in a moderate way than to force a strong measure on the peo-
ple first. Our columns are open for a discussion of first. Oatter and we hope that in the end the very best possible Act for the horsemen them-
selves and for the whole country will be evolved

How to make money with hogs
The Feeding and Management of Swine is not a new subject for Dominion Experimental Farms, but he handled it in a somewhat different manner than upon former occasions and just now, when hogs are so high
in price, his address was indeed timely. The in price, his address was indeed timely. The for the pig feeder and breeder and to show that
there is money in pigs Mr. Grisdale cited a case there is money in pigs Mr. Grisdale cited a case
where a feeder had a bunch of pigs from Januwhere a feeder had a this summer and the total cost of feed and labor, including that of the sow,
was $\$ 266.30$ and the returns from the pigs were was $\$ 266.30$ and the rets. Another man bought $\$ 800$ A paying business. Another man bought
a sow for $\$ 7.50$ (a poor individual). She far-
rowed in February and these pigs were fed off, rowed in February and these pigs were fed off,
realizing $\$ 85$. Her second litter was sold for realizing $\$ 85$. Her second litter was sold for
$\$ 42.50$ and the sow sold for $\$ 20$, the total deal ing from the one sow in the year netting, after payment for feed, $\$ 114.60$. Invariably, said Mr Grisdale, pigs pay, and he based his remarks up
on his experiences at the Ottawa Experimental on his experiences at the Ottawa Experimental
Farm over the past 15 years. He urged farmers to do a little more buying and selling, to in farms, and to, if possible, always have skim milk, clover or roots to feed for roughage. Business acumen, a knowledge of pigs and pig breed to success. Pig-pens should be roomy, light,
well-ventilated and clean. Heat in the pen, without light and proper air circulation, and especially in an ill-kept pen, is worse than cold. Do not forget to give the pigs plenty of wate
and above all things do not confine the pigs grain alone. In winter, feed clover, roots,
clover hay, fine-grass hay, alfalfa, straw or chaff. Get roughage into the ration. their pens after they reach 50 to 60 pounds in
weight. Previous to this time they have free weightor exercise. Breeding sows are kept outside and housed in small, cheaply-constructed pens until, about ten are placed in the warm pens.
farrow, when they are plate while outside get second-cutting These sows while outside get second-cutting
clover hay fine-grass hay or alfalfa hay, raw clover hay, fine-grass hay or and at the start one to one and one-half pounds of grain daily, the
latter being increased to from three to five pounds daily just before they are closed in to
farrow, at which time they are fed a laxative farrow, at which time they are fed a daxative
ration of shorts, bran, oil-cake meal and crushed oats, the latter being the best grain feed for a breeding sow. A Also given.
milk are ant was brought out by the speaker when he cited an experiment carried on at Ottawa where seven sows were bred when
gaining in flesh and seven others were bred when gaining in, flesh and seven others were bre raising
in failing flesh, the former farrowing and losing a large proportion of them. From this it would
seem advisable to breed sows always when they were gaining in flesh.
weem
T. Reg. Arkell, of the Dominion Live Stock Department, used sample fleeces to bring before
the sheepmen the proper methods of preparing wool for market. Sheepmen should put forth
every possible endeavor to keep the wool clean while it is on the backs of the sheep. Many fleeces of defective wool were shown and the rea
sons why they were defective explained. For in stance, chaff and straw in the neck of the fleece
Such fleeces require skirting. To get rid of the
To dirt they are carhonized in a solution of sul-
phuric acid. Fleeces which carry tags, paint
dung-locks, burrs, etc., require similar treatment, all of which means extra expense, which in the end make better sales, Mr. Arkell urged that breeding) and produce a uniform wool, or where breeding) and produce a uniform wool, or where
various classes of wool were produced, the grow ers should at least market it together and see
that it was properly graded before being offered that it was properly graded before being offered
and not have long wool, short wool and dirty and not have long wool, short wool and dirty, mean in the end co-operative marketing, which would bring the wool grower far larger return
by grading properly and selling in larger quan by gra
tities.
essentials in corn production. One of the best addresses of the entire pro
gramme was that given by Prof. L. S. Klinck, gramme was that given by Pror corn for ensilage purposes. He was undoubtedly right when he said that an undue amount of emphasis had, in the past, been placed upon small grains in pro-
portion to the need for them on the average farm portion to the need for them on the average farm
in this country. This being true, he urged. greater acreage of the more heavy-producing
crops like corn, clover, alfalfa, etc. The corn crops like corn, clover, alfalfa, etc. The corn
belt is being gradually shoved northward, and belt is being graduany shoved nortiwara, and require for the northern and eastern portions of
Ontario and for Quebec is a hardy corn. The Ontario and for Quebec is a hardy corn. The
large horse-tooth kernel, so often found in the large horse-tooth kernel, so orten lound in the
bags at the seed store, is very little good for growing in those sections. It is necessary that
the corn grower knows corn when he sees it, else he is quite likely to get poor seed. From a series of slides prepared from photographs of
good and poor ears Prof. Klinck illustrated his good and poor ears Prof. Klinck illustrated his cess, he considered strong, vital seed of a suitable variety, second a suitable rotation of crops,
and third, good cultivation. When going to a and third, good cultivation
seedsminn to purchase seed he always asks three
auestions. questions : First, the name of the variety; secgood breeding. The rougher Dent corns are almost. always late in maturing, consequently, for northern or eastern localities the cob showing the
very rough kernel surfaces should be avoided. The good corn on the cob is always toward the center. The butts of the ears mature later, and the tips earlier than this corn in the center. An-
other thing very well illustrated was that the rough-kerneled corn is nearly always a deep kernel. In selecting corn on the cob, always
avoid the large con of the saw-log type. Farly avoid the large cob of the saw-log type. Farly
Leaming he considered one of the best varieties for northern and eastern Ontario and for Quebec. The fault he had to find with whitecap was that
there had been no standardization of the strain, or, in other words, the growers were developing too many strains of this variety. Wisconsin. No
7 he considered one of the best of our ensilage corns, naming Early Leaming, Early Whitecap, and Wisconsin as three of the leading varieties.
The average buyer of seed corn feels safer in buying Flints and Dents as far as maturity goes,
but as Mr. Klinck pointed out, very often the Flint corn is not very well matured when cut, and sometimes the water gets in under the husks
and freezes injuring the seed. so that one cannot and freezes injuring the seed, so that one cannot
be too careful in selecting his corn, which, if possible, should be bought on the cob, for very
often cobs may be found which are soft and corn upon such does not germinate well. In other cases in shelling the corn considerable may be
found where the germs adhere to the cob, and consequently this corn Corn does best in a warm soil, preferably after
a clover sod, and they found at Macdonald Cola clover sod, and they found at macconall Col lece apart in the rows gave the hest balanced
foot ape
ensilage. They sometimes ensilage. They sometimes get larger yields from
nther distances of planting, but not so wellbalanced a product. The cultivalion he approvlower as the corn revew, but, he pointed out that
too many cease cultivation too early in the seatoo many cease cultivation too early in the sea-
son, and urged more of the growers to use the sinetchorse cultivator if it was impossible to
work the two-horse implement. This he deemed very important, as just at this stage of the
corn's growth very often an exceedingly dry spel
sets in, and unless something of this kind is re sets in, and unless something of this kind is re
sorted to the corn crop is very much shortened rooms and thfir fieding value. P. A. Boving, formerly of Sweden, but now on
the stafi of Macdonald College, Que., took up the
subject of subject of root growing and feeding value of the
different kind of roots. He based his compari different kind of roots. He based his compari-
sons and feeding value upon the following state ment: Ten pounds of mangels, Swedes or car-
rots, and 12.5 pounds of turnips have the same feecting valur as one pound of corn. Tntrominctory to his address he mentioned that in his exceptionally well. corn prowing was did not do done, and the grower might well consider the do better than corn at Macdonald College, which is situated in a very favorable position as far as
Quebec agriculture is concerned. An acre of
heavy-draft breeds, particularly Clydesdale showed the development in type from the Clydes
Prince of Wales 673, and Darnley 222, in dales, up to the present. As horse after hors was thrown on the screen , Buwn to Buchlyvie, Baron' Pride, Dunure Footprint, etc.- - it was clearly seen that quality had made steady a advancement. Prof. Day made it plain that we are not that the main object in draft-horse breeding is the type of horses which must put their shoulders to the collars and do the work required of them. Utility is the main consideration and
means the improvement of the work horses. STALLION ENROLMENT NOT APPROVED.
One of the most interesting meetings and, in cidentally, one of those drawing enrolment was the topic for discussion. Since the Ontario Gov ion owners to enroll their horses there has meetings as to the advisability and practicability on the measure. Dr. F. C. Grenside, one of the brief
tario Stallion Enrolment Board, discussed y the Act. One of the main arguments
brought forth to show that there must be some thing good in stallion enrolment was that som vince in Canada with the exception of Quebec, and in about two dozen of the such has been learned from the system in which enrolment has this year to hol
It has been thought advisale only one inspection and that tolding the inspec tions at certain village centres the Boarm homes
to send the inspectors right to the farm of the stallion owners. The weak place inspec tion had not been compulsory. It is pssion to amend the Act to make inspection compuer
 amendment is propose to see that the Act is en-
county be appointed
Without some measure of this kind the forced. Without some measure of
Act would soou become a dead letter
A lively discussion followed Dr. Grensides
dress. F. S. McVitty, of Muncey Institute, fo dress. up remarks which he made at a like meeting at this show last year. He said that the same level as the good horse and that all horses shouad conformation. He went so far as to move a resolution, which was passed, asking
that the Parliament of Ontario be asked to amend the Act to make inspecording to their breeding, soundness and conformation, to inspect
if the Goyernnuent wishes to continue these horses they should pay the bill. From Act discussions we gathered. A horse pure-bred and sound and inspected gets a certificate on which they call Form l, a pure-bre is inspacterd gets a Form 2
not inspected gets a grade horse gets a Form 4. The casual observer,
statement of one of them on a horseman's adver-
tising, would not understand what Form 1, tising, would not understand what Jright, Dom
Form 2 or Form 3 meant. John Baid that the inion "form" had been used in place of "grade to avoid confusing grade However, it was clearly
of a grade stallion. of a grade sta discussion that few people believ-
seen from the
ed these certificates to be of very much use. A ed tan could have a horse, and a good horse, en-
molled, and would get a Form 3 certificate, while
roll rolled, and would get a
another man might have a much poorer horse and could get a Form 1 certificate, because the horse
had been inspected and passed by the inspectors. favor of stallion inspection thoroughly carried on. One speaker think that it was necessary for him to have his horses enroned possession. Others
he still had them in his agreed that, the Governinent should certainy
the bill if they forced this thing upon the horse men. Seeing that compulsory inspection and
lution in favor of grading, and that the Government shart of the
bills, it would seem that at least a part horsemen are in favor of at a very small propor
However, we noticed that a However, we norent. voted, and it does seen
tion of those presen
from discussions which came up at the meeting nul from the opinions of inde inforcing suc that there will be some trouble in enemething to
mangels, he pointed out, would produce over
6,000 leed unitis, or three times as much as are contained in two and one-hall tons of good hay. Labor is the only limiting feature in root growing.
ordinary crops, it is not expensive to grow the
big crop. Mr. Boving preferred that ground big crop. Mr. Boving preferred that ground the fall, the manure being ploughed down at the second ploughing. Some of those present did not agree with this. He also believed that in
many cases fertilizers could be used to advan many cases fertilizers could be used to advan
tage. An unfertilized plot at Macdonald Colleg had yielded 17.5 tons per acre, while the fertilized tilizer he recommended to be used was 50 pounds of sodium nitrate, 50 pounds of Ammonia sul phate, 250 pounds of acid phosphate, and 75
pounds of muriate of potash. From, experience Macdonald College the speaker said that hat wenty to twenty-five roots will give seed enough to plant one acre, and, from experiments conduct Where homegrown seed were used, ran from one
with crops from the best imported seed He.did ot think it paid anyone to groe. the long
varieties of mangels, prefering the intermediate, wedes do best on a heavy soil, mangels on a on a very sandy soil turnips on a poor soil, and rots. He also urged he preferred sowing carxperiment, he showed that early seeding brings
ighest it is always wise to do not think, however, that
is as early as he recommended, viz., May 8th. A much better quality the 10th or 15 th of June, than when it is put in early in May. Mangels, however, should be got
tn early. Mr. Boving held that all land should me early. Mr. Boving held that, all land should lerest was taken in Mr. Boving's methods of
sowing and cultivating roots. He always sows sowing and cultivating roots. He always sows
on the flat, rolling the land down over the rows and using a light harrow or weeder several times
crosswise of the rows to keep down weeds. This crosswise of the rows to keep down weeds. This
he claims lessens the cost of labor very appreciably. It pays also, as shown from an experiment which he quoted, to single roots as soon as
it can possibly be done. From an experiment
which was carried on it was found that singling
ss soon as the first two adventitious leaves ap peared gave the best results. and-that thinning
at initervals of a week for the following three teintervals of a week for the following thre
whowed a gradual falling of in yield. weeks showed in gradual thirtying inches apart, and
Mangels are put in rows the
thinned to eight inches apart in the row. Other thinned to eight inches apart tn the row. Other
roots are left proportionately thick. Great ex
ception was taken to the amounts of seed advised ception was taken to the amounts of seed advieed
by the speaker. Very few of our growers in thit country would think of sowing four or five pounds of swede turnips to the acre, much Wave seen as good a stand as a person would want,
in fact the mangels came up too thick from in fact the mangels came up too thick from
seeding of four to five pounds per acre.
think that it is more a matter of germinatio power of the seed than it is of the lars amount per acre. Where seed had been carefully
ested and tested tested and tested over $90 \%$ say, there would bo the acre, and few farmers in this country aro fikely to take up with such an idea. His adver was listened to with great interest, how. ever, and many points were carried away by the
root growers in attendance to put in practice on
their own farms during the coming year.

## An Expansion Year for the Guelph Winter Fair <br> cupdespaimg

A sentiment pervades a great part of the coun- It was indeed the greatest show of its kind try that Guelph is the most suitable and only place for the stockmen's final roundup, and when the crops are harvested, the plowing done and
all the fields asleep beneath nature's cloak the rural folk feel free to meet once more at that old-estanlished rendezvous, the Ontario Provincial Winter Fair. For years, the farmers of Wellington County and contiguous districts have met with their grains, pould stand the modern locks and made their oly stand the modern test of the husbandman's skill and the feeder's art, and now that stockmen from one end of O-
tario to the other, gather together with the choicest stuff, the Ontario, Provincial is indeed Readers will remember made last year through the farm press about the lack of accommodation, both for stock and visi tors. There has not been much improvement in
this regard, but the congestion of the stables and this regard, but the congestion ors will in the end demonstrate the inefficiency of the present build-
ings to much longer domicile the Guelph Winter $\underset{\text { Fair. }}{\operatorname{lngs} \text { to much longer domicile the }}$ It is a growing institution and attendance and
entries increase each year. The entries in the horse department were, this year, greater by 102 twenty-six head stronger than in 1912, dair twenty-six head, and swine increased by 130 in viduals. This condition was very exacting o Tednesday, December 10, the constant clicking of Weanesday, turnstiles admitted over 15,000 people
the busy tur
The Winter Fair must be born again and in The Winter Fair must be born again ansion. A arge judging arena is a prime requisite, wit more room in all departments. There is a aright treak of hope, however, on the horizon, tor Dominion Government has pledged itseld act as strong suggestion to the
Horses are trumps at the Winter Fair, and Horses are trumps at the winter stallions and drafty mares that pranced up and down the arena. Light-horse breeds made an elegat
showing, from the small foals and fillies that do show yet understand the train
The beef-cattle classes were also exceedingly good, but here could be found at the lower end
of the line animals which were a little wanting, either in conformation or excellence of finish.
 criticism, but some of the losers wal finish.
stood a little more feeding and final Never before has such an aggregation of pigs
been seen at the fair, and the sheep were well up to their usual high standard. This year a pen of Southdowns, from the McEwen
off the much-coveted Drummond cup. Up in the poultry department all was excitement. A poultry fancier is an enthusiast and
his charges also generally make plenty of noise. his charges also generally make plenty or nose.
Over 5,200 entries made the best quality show ever seen in this country.
A little extension was mide this year, and the City Hall, instead of covering the city fathers, was for one week the stopp, other things
fathers of our pure-seed industry. Othin were to be found here also, of which educ
exhibits from the O. A. C. were prominent.

It was indeed the greatest show of its kind,
and an atmosphere of progress and keen compe-
tition permeated the whole fair, and all was tition permeated the whole fair, and all was
done that could be done to mingle the spectacudone that could be done to mingle the spectacu-
lar with the real and useful, so that every mo-
ment was interesting to the visitor. The Board ment was interesting to the visitor. The Board
are to be congratulated on the fair of 1913 , and are to be congratulated on the fair of 1913, and
much credit is due to the energetic secretary, ....
W. Wade, who was untiring in his efforts to make W. Wade, who was untiring in his efforts to make
everything run smoothly for exhibitors and visieverything run smoothly for exhibitors and visi-
tors at this, the first of these fairs under his management. It does seem that the more shows
we have the better, and it was the general opinion that, in place of injuring the Guelph show,

R. ${ }_{i}$ W. Wade.
R. W. Wade. What ontario, who has
Chief of the Live-stock Branch for Ont conducted the most succes
Winter Fair.

Horses.
The horse exhibit the Winter Fair is worth going many miles to see. This statement is substantiated by the immense audience that year by year fills up all the avalable space cling to arena, during judging hours,
window ledges, uprights or any projection within the reach of agile youth. Horses are the main
feature of the show, and year by year the entries feature of the show, grow with more than gratifying rapidity. The grow with more than gratifying rapianty of 102 entry books for 1912 , and with the increase in
over those of numbers the quality does not decrease. During
the recent fair some record classes came out, and the recent fair sarticular, John Bright, Dominion Live Stock Commissioner, declared to be the bes
class of Clydesdale mares ever seen in Canada. class of Clydesdale mares ever seen in Canada.
Percherons, Shires and all the light breeds were well represented and made the show spectacular,
as well as interesting and instructive. as well as interesting and instructive.

The "Bonnie Clyde" almost equalled in num-
The bers the entire exhibit of all other breeds and the ocean or been bred on Canadian soil. The stallions were a strong lot of noble horses and
the mares large, drafty and clean limbed. It the mares large, drafty and clean limbed. If
was not always, however, that the largest horse
won was not alway, how, Ster, Starr, Port Williame.
w.S. for the judges, R. Sm. Mickirdy, Napinka, Man., and Geo N.S.; Wm. McKirdy, Napinka, Mar., and Geo
Gormley, of Unionvile, were determined that no Gormey, of Unionvecially in quality and limbs, shoul escape their notice. Sometimes substance Fa
sacrificed for quality and action, and rightly sacrificed for quality and action, and rightly so
for they are the cardinal points that make th for they are the cardinal points ehat mis the
Clyde so popular in Canada to-ay. It
heavy horse, though, that demands the price, and heavy horse, though, that demands the price, and
if Clydesdale breeders could add a little to the
substance and maintain the quality it would en. if Clydesdale breeders coulde quality it would en,
substance and maintain the qual
hance the value oo the breed. The show-ring to the place to set the standard, and somedight,
judges might strain a point to encourage weight
but it can be said of the Provincial Winter Fait that the right horse won under th
eral conception of Clydesdale type.
eral conception ond familiar horses came forward in the aged-stallion class, but it was decreed thal some animals unknown in Canadian show-ringe should win. Roag \& Son's Baron Ian, having
twice won championships at Aberdeen and honore twiee won championships at Aberaeon an pete is
at Glatgow, has crossed the water to comper
Canadian show-rings. This horse is a standard Canadian show-rings. This horse is a standard
in action, limibs and quality, and carries a nice in action, limbs and quality, and carries a . in
body, well coupled. Seldom does a horse poe
seess feet and pasterns equal to those of Baros sess feet and pasterns equal to those Not only
Tan, nor such a body and muscling. Not
did he win his class, but he was grand champlop
保 did he win his class, but he was grand ciampias the
Clydesdale stallion, and later proclaimed the
best horse at the fair, winning the special silver Clydesdale stallon, air, winning the special sillver
beat horse at the fair
cup. Horsemen agreed that Baron Ian was the cup. Horsemen agreed that Baron Tan was
best horse ever shown at the Ontario Provincial
Winter Fair. Second stood the Great Eastern, West horse ever shown stood the Great Eastern,
Winter Fair. Second
and he certainly has the weight with the quality, lipping the scales at one ton and forty pounds
He has a powerful body, well coupled, with lote He has a powernit hoay, well coupled, wrned feel to stand upon. His action could hardly be
faulted, although he did not move as stralght as faulted, althougnther candidate for second place
Baron Ian. Another stylieb
was found in Anchor's Pride, a big, solid, sty horse, and a a good mover. Taking quality, ac
tion and substance together, the Great Eastern tion and substance together, the Great eastard
won Anchor's Pride went down to third place, and Macaroon came up to fourth. It was a sur-
prise to see this horse go so far down after will prise to see this horse go so far down astor wir
ning first last year and having a championshly
ning in record in Scotland. Few horses possess better.
shaped feet or nicer limbs and pasterns thas shaped feet or nicer limbs and pasterns thas
Macaroon, but he is just a shade ofl bloom for Macaroon, but give a better account of himself in the future
for he is able to do it when in condition. The for he is able to do it when in condition. Tla big, malsive not move quite as straight as Maca roon and was fleshy to a fault, but he is an ez-
ceptionally well-built horse, with a closely-cou pled body, low set and possessed of quality in ne mean degree. Knight of Barglass was sixth, and Likerest Again seventh. hree-year-olds. Prince of Aden finally strode to top place, with Corinthian standing next. The Tormer horse's quality would not allow him to
take any lower place, and he is a good mover bo take any lower place, and he is a good mover bo
sides. H.avier horses were there, but they could not show the action and quality of the Prince of
Aden. Corinthian is a large horse, well pprung Aden. Corinthian is a large horse, well sprung
in the rib, has a strong loin and moves right,
Neither he nor Clarion, who went third, have
good quality of bone behind as the winner, but noves and is a showy horse. The fourth-prize morse. Baron's Hope, moves of with much pre
cision, and he has a strong loin and body, which is set ofr by good fitting. Dunwin David took the tifth ribbon, not because he is a poor individual, but Perhaps he does not move quite as true
good.
as the best of his class, but he has good quality as the best of his cla
and shows good style.
It was in the two-year-olds that nine came sut, arguments of the whole show. Craigie Sam and Laird $O$ "Ken fought it out for first place.
The first horse won, but by a very close margin, The first horse won, but by a very close margit,
tor Laird o' Ken has exceptionally good quality, ir a good mover and a little deeper ribbed than
Craigie Sam. Quality and a trife on action Craigie Sam. Quality and a trice on action
Qnally put the Hassard horse up, but only after nach punsideration. Full of Baron of Buchclyie blood through his maternal ancestry, quality
is written all over him, and Baron Ian had to is written all over him, and Baron Ian had to
show his best in order to win from him the championship. Gartly Ideal, the third in line,
could travel a little closer at the hocks, but could travel a little closer at the hocks, but
tie is closely coupled, has quality in handanice, he is closely coupled, has quality in abounance, and is a good mover. Royal trustee, with has standing next, and Gloucester, Craigie Sam'
ttable mate. made the line look good on both stable
ends. Coming Star was the winner of the foals
with Thorndale second. Both gave promise good action, but the first had a little more qual youngster was third, and Keir Democrat 2nd wa
yourth with the fifth place left for Prince youngst
Wourth,
Wright.
Ten aged mares responded to the call and made up the best class of mares ever shown in Canada. The best action and quality were found in Lily of Muriton and she went to the
top, while Royalette, a larger mare with a little
leas quality, but a right goer, went second. lees quality, but a right goer, went second.
Garrie Heir, possessing the same qualities as the
ones above her only in a slightly less degree, Ones above her only in a slightly less degree,
took third, and a big, strong, dark-colored mare. Brampton Lady Peggy, was next in line. with Fanny. Clarke fifth
Three-year-old mares came out strong in num-
bers, with Princess Patricia in the van. She bers, with Princess Patricia in the van. She
could move a trifle straighter in front. but her quality of bone, her good feet and pasterns and muscular body mark her at once for first place.
Nellie of Pendreigh, the second animal; also has Nellie of
abundance of clean, flinty bone and is nicely
topped. This mare won her class last year, but topped. This mare won her class last year, bu fourth and fifth places. The white-ribbon winner has rather a plain heau, but from the grou $p$ she is quality
Nell of Aikton won the class for two-year-
olds and later the championship of the flly
classes. Up and down she has the contorm classes. Up and down she has the conformation and quality that wins and the right kind of ac-
tion. Snowdrop was a little more compact, but not enough to make her movement heavy, for she had the right action, both at a walk and trot. Lily of Rattra did not stand on quite as good trappy mover and quite worthy of a good place.
Coburty Queen, a strong-built mare, and Pride of uchencleith, a trappy goer, fourth Afth. Exhibitors: T. D. Elliott. Bolton, Ont.; H.
Rohinson, Erindale, Ont. : T. H. Hassard, Mark ham, Ont.; George B. Armstrong, Teeswater Ont, , Tohn A. Moag on, ; W. H. Mansell,
Joseeph Telfer, Miton, Ont.
Fletcher, Ont. ; G. W. Saunders, Jerseyville, Fletcher, Ont. ; G. W. Saunders, Jerseyville,
Ont.; Smith \&ichardson, Columbus, Ont, Ont.; Smith \& Richardson, Coiumbus,
Hugh \& Malcolm McJeen. Wyoming, Ont. ${ }^{\text {W }}$.
W. Hogg, Thamesford, Ont. James Paton, Pro ton Station, Ont.; I. E. Haug, Chesley, Ont.
A. W. Watson \& Sons, St. Thomas, Ont.; Good A. W. Watson Bros., Bolton, Ont. : George Millar, Black
fellow Binker heath, Ont.; R. B. Pinkerton, Nei Swinton, South
A. Jones, Caledonia, Ont. Nevil
ampton, Ont. Alex. McCraig, Jr... Rockwood ampton, Ont. ; Alex. McCraig, Mr... Nockwood
Fuller, Bros., Norval, Ont., Fre. J. Wison
Riverbank, Ont. ; L. J. C. Buil, Brampton, Ont
 tion, Ont. : Norman Dryden. Galt, Ont. ; H.
Mason, Scarboro, Ont. Awards: Aged stallion: 1, A. Boag \& Son, n
Baron Ian, by Raron's Pride ; , Smith \& Richardson, on Great Eastern, by Dunure Frieman
3, Elliott, on Anchor's Pride, hy Baron Ruby 5. Telfer. on Marathon, hy Marcellus. Clydes dale stallion foaled in $1910: 1$, Hassard, on
Prince of Aden, by Sam Black; 2, Smith \& Prince of Aden, by
Richardson, on Corinthian, by Memento ; 3, Boag,
\& Son, on Clarion, by Royal Abundance ; 4, Goodfellow Bros., on Baron's Hope, by Baron
Pride: 5. Hogg, on Dunwin David, by Baron of
Buchclyvie. Stallion foaled in 1911: 1, Has-
aard, on Craigio Sam, by Sam Black ; 2, Boag \& Son, on Laird O'Ken, by Cawdor Laird; 8, Ideal; 4, Boag \& Son, on Roval Trustee, by Dal-
abady ; 5 , Hassard, on Gloucester, by Ryecroft abadily ; 5, Hassard, on Gloucester, by ing Star, by Mendel; 2 and 3 , smith \& Richardson, on Thorndale, by High Honor, and Village ocrat 2nd, by Keir Democrat; ${ }^{\text {5, Jones, o }}$,
Prince Wright, by General Miller. Aged mares Prince Wright, by General Miller. Aged mares 2, Hogg, on Royalette, by Royal Edward;
Jacob, on Carrie Heir, by Hillhead Chief; Bull, on Brampton Lady Peggy, by Royal Addie 5, Wilson, on Fanny Clark, by Baron Maceachra,
Mare foaled in $1910: 1$, Smith \& Richardson, on Princess Patricia, by Everlasting; 2, Boag \&
Son on Nellic Pendreigh, by Baron Mitchell; Son on Nelliie Pendreigh, by Baron Sitchell, \& Richardson, on Lady Sangster, by Baron Rothschild. Mare foaled in 1911: 1, Hassard on Nell of Aikton, by Baron suchiy
son, on Snowdrop, by King Tom; 3, Smith \&
Richardson, on Lily of Rattra, by Kinleith Pride; 4. Boag \& Son, on Coburty Queen, by by Picador. Mare foaled in 1912: 1 and 4, Boag \& Son, on Pride of the Craig, by Mendel, and Bessie Morton, by Fyvie Baron; ${ }^{2}$ 2 and Bydand, and Black Maid, by Fyvie Baron; 5,
Pinkerton, on Queen of Keirs, by Keir Democrat,
 by Baron's Pride.
Nell of Aikton.

A pleasing feature of the Clydesdale contest
was the numerical superiority of the Canadianbred over the open classes, fifty-two more
horses claiming Canada as their birth place. The quality and type throughout were creditable and compared very favorably with imported blood. lions, with eight following. He is a young horse and very fine. This gives him the appear
arce of being a little up-standing and lacking substance, but with age he will thicken out into a choice individual. Last year he won his
class as a two-year-old, and he is keeping up his horse, was second and would have made a good horse, but in such a case Day Dream would have been obliged to go down to fourth or fifth place,
which his quality would not permit. King of Fountain Park, a winner at Ottawa, came third. If he had a little heavier middle he would be an autstanding horse, ror he has good quality and class last year, hut he could not measure up to his competitors, and remained fourth from the top. Then came Romeo's Pride, who carries his a first-class horse.
Fifteen came out in the two-year class, and a
good one it was. good one it was. Royal Netherlea best repre-
sented the modern type of Clydesdale with plenty of substance and bone of the right sort. Then came Donald Clamis, a hig, smooth horse,
straight and strong in his limbs, a right mover, and possessed of good conformation. Guine Gold was third, with pasterns that might well
be a trifle longer, but he is well muscled and moves off in a fearless manner. Pride of Glamis and Glen Orchy were selected for fourth and fifth
places on account of the former's quality of bone and general appearance, and the latter's fineness and superior underpinning. a strong class of
Sixtean individuals made alifictong they yearlings, and with the qualifications they pos-
sessed made it hard for Glen Ivory to win the sessed. However, the jullaes were pleased with his
raction, abundance of dinty lone and general type, and put him first and later made him Can-
adian-bred champion stallion. Rich Hill Baron, a tall, dark horse with white spots, struggled
into second place over Morning King. Fourth ure. Prince Carruchan 2 nd did not find it extremely difficult to win honors in the class for foals.
He is a promising young stallion, with a deep rih and plenty of the best bone, and standing on
cood feet and pasterns. Ronald, the next best good feet and pasterns. Ronald, the next best,
is a promising mover, and the third, Abercorn is a promising mover, and the third, Abercorn
Duke, is yet a liftle out of proportion, but will
dovelop into $n$ stron $\mathbf{c}$-lodied hors with pleasing dovelop into a stronc-bodied horse with pleasing
nction. aklind's Chief was rourth, and Pride
Of Hillside. an exceeding free-going colt, was of Hillside, an exceeding free-going colt, was
fifth
The number of aged mares doubled that of The number of aged mares douner ted some
the open Clydeldale class and presenter
cood individuals. Charming Jean won premier cond in on her nicely-turned croup and strong
nlace on
hody. She could have a little more slope o hodv. She could have a little more slope o
pastern, yet her quality of hone is commendable and her action easy and strong. May Morn
who occunied second place. did not carry the same strength of back and lotn, hut her quality of underninning was well up to the mark as was
that of Queen Maud, the white-ribbon winner

Princess Clendrie, a compact mare, went fourth, While Derwent Queen, a winner in the closed class Eight caree out in the three-year-old class and all gave way to Queen of Tuan, a sturdy mare
of the right kind. Hillside Bessie won the twoof the right kind. Hillside Bessie won the two-
year class on substance and quality combined year class on substance and quality combined. straight and easy. Hillside Beauty was the best yearling, with Patricia of Connaught a close and both moved in a pleasing manner, but the former has an exceeding good set of limbs, and -ightly won the premier place
The young fillies were a promising lot, and
contained the Canadian-bred champion mare in contained the Canadian-bred champion mare in
Princess Carruchan 2nd. This young flly is
compact and deep-ribbed, and has quality compact and deep-ribbed, and has quality in Exhibitors: Edward Hoy, Orchard Attridge, Muirkirk; Mair Bros., Aurora; Thomas R. C. Rogerson, Fergus; W. H. Mancell, Fletcher, Columbus; Jas. $\Lambda$. Myles \& Co. George Gropp Milverton; Wm. Wilson, Atwood, ' John McClure
\& Sons, Brant ord ; R. B. Pinkerton, Essex \& Sons, Brantford; R. B. Pinkerton, Essex
Walter Rae, St. Pauls ; W. G. Ormiston, Enfield A. G. Darrock, Cotswold ${ }^{\text {Hastings }}$ Bros.
Crosshill ; Joseph Telfer, Milton; James Carlin Crosshill ; Joseph Telfer, Milton; James Carlin,
Seaforth ; Wm. Woodley \& Sons, Dundas; George D. Fletcher, Erin ; W. J. Taylor, Grand Valley ; W. J. Monkman \& Son, Rockwood; James A Harris, Royal Oak; Brown \& Carefoot,
Clarksburg ; George Miller. Blackheath; David Cordingly, Lisgar, John Johnson, Woodbridge
Ira Baker, Cainsville; John Arbogast, Stratford Ira Baker, Cainsville; J John Arbogast, Stratford
Win. Jacob, Mitchell ; Charles Groat,
Ottawa Alex Mccraig, Jr., Rockwood; John Black, Belwood; C. M. Blyth, Guelph; James Given
Georgetown : W. F. Batty, Brooklin: Fierheller Georgetown ; W. F. Batty, Brookin ; Fierhen
Bros., Mt. Elgin ; R. Tuck \& Son, Eden Mills Wm. Gilliard, Forest; J. E. Haug, Chesley ; J. Innis, Woodstock; Harvey Hastings, Tuan John D. Camphell; Harriston; W. S. Airth,
North Bruce; ${ }^{\text {Thomas Bird, }}$ Norval Station;
Wm. Richmond, Washington; S. J. Prouse, Ingersoll; H. I. Barnhardt. Oro Station ; Armstrong \& Son, Rockwood; Fred. J. Wilson,
Riverbank; G. R. McMichael, Seaforth; Robert Duff \& Son, Myrtle; Jas. Bowes, Toronto; A. Tamieson, Streetsville; E. B. Barnharat, Orange-
ville : Robert C. Given, Glen Williams ; Peter Christie, Manchester ; Thomas Laughlin, Paris; Wm. Rinn, Constance ; W. S. Steadman, Petrolia. Awards.-Aged stallion: 1, Elliott, on Day
Dream, by Baron Acme; 2. Staples \& 8 Son, on Baron Flator, by Elator : S, Smith \& Richardson, on King of Fountain Park, by King
Thomas ; 4, McMichael \& Son, on Lord Ronald, Thomas; 4 , McMichael \& Son, on Lord Ronald,
by Baron's Luck ; 5, Hay, on Romeo's Pride, by Prince Romeo. Stallion, two years old: 1, Wm.
Wilson, on Royal of Netherlea, by Netherlea; 2 andson, on Royal of Netherlea, by Netherlea,
and 4, Gropp, on Donald Flamis. and Pride of
Glamis, by Knight of Glamis : 3, Wm. Elriott, on and 4, Gropp, on oonlamis; 3, Wm. Elliott, on
Glamis, by Knight of Gla
Guinea Gold, by Baron Acme ; 5, Rae, on Glen Orchy, by Baron's Luck. Stallion, one-year-old :
1, Smith \& Richardson, on Glen Ivory, by Black Ivory; 2, E. B. Barnhardt, on Rick Hill Baron,
by Baron Columbus; 3, Gropp, on Morning King, hy Knipht Glamis ; 4, Brownlee \& Carefoot, on Lothian Treasure, by Craignair. Stallion, foaled in $1913: 1$, Batty, on Prince Carruchan 2nd,
hy Gallant Carruchan; 1. Fred. Wilson, on Gay hy Gallant Carruchan; 1. Fred. Wilson, on Gay
Ronald, by Montrave Ronald 3 . Given, on Aber-
corn Duke, by Mathantha: A. Attridge, on Oakcorn Duke, by Mathantha: 4, Attridge, on Oak-
land's Chief, by Duke of Oxford; 5 , Black, on
Pride of Hillside by Montrave Magnus. Mare, Pride of Hillside, by Montrave Magnus. Mare
foaled previous to Jan. 1st. $1910: 1$, Haug, on
Charming Jean Charming Jean, by Charmer of Conniston; ${ }^{2}$
Black, $\mathbf{x}$ on May Morn 2nd, by County Gentleman
3, Tuck \& Son Black, ,Won May Morn 2nd, by County Gentleman
3. Tuck \&on, on '(ueeen Maud, by King's Seal
4. McMichael \& Son 4. McMichael \& Son, on Princess Clendrie, by
Clendrie Prince, 5 , Staples \& Son, on Derwent
Ounen by Queen, by Dervent Crooke. Mare, foaled in
$1910: 1$, Hastings, on Cueen of Tuan, by Baron Flect; 2, Campbell, on Iady Favorite, by Gen-
eral Favorite; 3 and 4 , Watson \& Son, on Trim eral Favorite; 3 and 4, Watson \& Son, on Trim
of Oro, and Belle of Areyle, both by Baron
Gartly: 5 , Prouse, on Oxford Maid, by Scot-
 Rarnhardt, on Hillside Bessie, by McKinley 2nd
2. Bowes, on Princess MacQueen, by Prince of
Park ; 3, Smith \& Richardson, on Lady Shapely
 $1912: 1, \mathrm{H}$, I , harnhardt. Rae. Mare, foaled in $1912: 1$, H. I. Barnhardt, on Hillside Beauty, by
Ardnahoe ; 2, Christie, on Patricia of Connaught hrdnahoe ; 2, Christie, on Patricia of Connaugh
hy Acme ; Arbogast, on Brnnie MacGregor, by
Edward MacGrent. Gdward MacGregor; 4, Batty, on Maple Avenue
Rell, by Golden Favorite : 5, Given, on Charm ing Girl, by Royal Cook. Mare, foaled in 1913:

1. Batty, on Princess Carruchan 2nd, by Gallant 'arruclian ; 2, Miller, on Scotland's Charm, by
Kinpurnie ; 3, Fred. Wilson. on Ruby Lane, by Montrave Ronald; 4, McMichael \& Son, on Queen Margaret, hy Glen Rae; 5. Gropp, on Queen of
Fairview, by Hlighland Blend. Champion Can-
dian-lured adian-lred stallion, Smith \& Richardson, on Glen
Ivory. Champion mare, W. F. Batty, on
Princecs

PERCHERONS
$\qquad$ Clydesdales the Next po the clydesdales the Percherons were
most prominent, but Robert Graham, the judge,
had a far different proposition than he had at the had a far different proposition than he had at the
International in Chicago. The Percheron is uniInternational in Chicago. The Percheron is uni-
versally popular with our neighbors to the south, but quality in the horse and sentiment in the
people has so firmly established the Clydesdale in people has so firmly establian horsemen that other
the heart of Canadian
breeds find it difficult to arouse even a jus amount of appreciation. It does appear, however, that the Percheron is gaining ground in
Canada, and if farmers would use such horses as Canada, andin to the front in Canadian show-
we see coming
rings it would not be long before, the breed would rings it would not be long before. the breed would
be known aright, and importers would be encouraged to bring into this country horses that
would be a credit to the breed and Canada as
"La Perche" blood was conspicuous in the aged class of stallions, made up of six noble
sires. Irade marched to the front with his
large body, strony back and arge body, strong back and good feet. He has
perfect. control of his limbs. and can use them in a manner. when carefully handled, to please the
Had the second horse, Jet, been just a
udge. ittle cleaner in the limbs it might have been diffierent proposition, for he is a good mover and
strong ne every part and has in his veins the
blood of old Etudiant, one of the best of the blood of old Etudiant, one of the best of the
Percheron breed. Jovin came third, but, lookng at his noble head and crest coupled to his
strong, sloping shoulders, one would be partial to him for first place. He is an intrepid mover
and shows the steel aright, and when he stands tis on limbs of quality. Jauze came fourth
It Irving firth, and, had the former horse lifted is shoes a little straighter and his body an had the latter been a littie heavier and a litte
finer in the limbs with his qood action, both
would have favorably compared with the winners would have
of the class.
Another sextette represented the three-year-
olds. and kif Kif won the red. There were olds. and kif kilasses that were straighter in their action. but he has the right shaped croup. a strong midतle and a pleasing appearance in second place. and from two such good horses it
was hard to choose the best. Karcan finishes Was hard to choose the best. Karcan finishes which gives him an imposing appearance in his head and shoulders. He won the blue relop into a horse of drafty magnitude. Karlos, the candidate for fourth place, gave an exhibition of
good action, but lacked somewhat in quality. Howe
\&ifth. The classes were not sixes in appearance if
they were in numbers, for Lampyre, in the they were in numbers, for Lampyre, in the two-
year-olds, had quality to spare. Few horses year-olds, had quality to spare. Few horses
stand on better feet and limbs than Lampyre, and few are more beautitully turned in front.
This big, light grey won his class in a good This big, light grey won his class in a good
fight, and later won the championship from Irade and Kif Kif. Laricot, the horse with could not
ribbon is firmly put together, but he corming for the show his steel right when performing for the
judge. It he were as good in his hind limbs as in front he would be a noble horse, for he is supported by excellent forelegs and ho is all Per eicester, has a sheepy mane but he class. His
cheron and went third in a good clat action is right, and he is a good
There was only one class for females with age There was only one class for females with age
considered. Maline, a black yearling, won the
class with Juvenile, a black four-year-old, comclass with Juvenile, a black four-year-old, com
ng second. Both had quality and good confor
Bot ation as had Kritique, the mare fis Exhibitors: T. D. Elliott, Bolton; T. H. West ; R. Hamilton \& Son, Simcoe. Awards.-Aged stallion: 1 , Elliott, on Irade
A Sahara. 2 , Cheyney $\&$ Sten, on Jet, by
 Barras; 4, Hamilton \& Son, on Jay Coco
Fuillaume ; 5, Hassard, on Irving, by Coco
Stallion. three years old : 1. 3 and 5 , Hassard Stallion, three years old 1,3 and Falot, and
on Kif Kif, by Faisau, Koimas, by Fall
Kambodje, hy Gosselin: 3 and 4, Hamilton \&
 Elliott, on Lampyre, by Hourd, 1 ; 2, 4 and 6 ,
Hanister, and Lassis, by Hieron
Habrace, Lupin, by Hassard, on Laricot, by Halibrace, Mapin, any
Holbien, and Iaquet, by Gy Gilhert. Mare, any
age : 1 and 4 , Filliott, on Maline, by Incitatus, and Mailisie. by Moulinet: 2, 3 and 5 , Hassar on .Juvenile, by Truce, Krigne, Champion Per
and Kocarde, hv Campigny. Cle
cheron stallion, Elliott, on Lampyre. shires. Some of the usual exhibitors in this breed of horses have been selling heavily from their stock,
and could not make the customary showing at and could not make Some good individuals, how-
the Winter Fair. Some
ever, came into the ring, but competition was not keen enough to make it interesting except in

THE FARMER'S ADVOCATE.
favorites came back in competition with young plan and Tuttlebrook, Esq., fought for first
plaver and strongly coupled with a powerful loin and $\begin{gathered}\text { Last year's champion came back in the aged } \\ \text { middle, but when it came to action he was sur- } \\ \text { parses over } 15 \text { hands } 2 \text { inches, and won again. }\end{gathered}$
passed by Tuttlebrook Esq., who has an impos- De Wilton is a big, strong-coing horse, and, aling air and freedom in his movement. The latter horse might be criticised for being a shade
light in the middle, but he has a clean set ligmbs which he uses in a pleasing way. On ac-
count of an indication of rolling slightly in his action Ouse Bridge Champion went second, followed by Norwell Chieftain. This horse carried
his hocks a little wide, but was easily superior
to Roxwell Saxon Harold. The horse that came fourth is somewhat coarse, and lacks quality and
fineness fineness in his limbs. Only one two-year-old stallion came f.
well put up.
Watnall King was the only yearling stallion
to show and have taken a good horse to wrest it from him, as he promises to be the coming hor
sıze of body and quality of limbs.
In females, Rokeby Halo came out as an aged for she was firsi at the Canadian National this rrar and char.pion at the National Live-Stock
Show in November. A little more spring of rib rould add to her already massive appearance, hut her depth of body, quality of limbs and char-
ncter of feet, and pasterns are seldom surpassed in any heavy-draft animal.
Grey Fuschia won from Nashville Belle in the
two-year-old class, chiefly on feet, action and qua-year-olity. They were two good mares, with nice ly-turned croups and both possessed of a liberal amount of quality.
Exhibitors: James Rovaird, Brampton George Allen, Burford; John Gardhouse \& Sons,
Hightield; Amos Agas \& Son, Nashville ; John H. Kellam, Nashville.

A wards.-Aged stallion : 1. Gardhouse \& Sons,
on Tuttlebrook Esq., by Deighton Bar ; 2, Agas on Tuttlebrook Sequ, by Champion, by Knowle Orion; 3, Allen ou Norwell Chieftain, by Sower
by Chieftain; 4 , Bovaird, on Roxwell Saxon Har old, by Roxwell. Saxon Oak. Stallion, two years
old : Kellam, on Champion Junior, by Ouse Bridge Champion. Yearling stallion: 1, Gardhouse \& Sons, on Watnall King, by Tuttlebrook Rokeby Aged mare: hy Malresfield Thumper. Two-
year-old mare: 1, Gardhouse \& Sons, on Grey year-old mare: 1, Gardhouse \& Sons, On Grey Belle, by ouse Bridge Champiori. Yearling mare:

1. Gardhouse \&\& Sons, on Nicausis Queen, by 1. Gardhouse \& Sons, on Nicausis Queen, by
Tuttlebrook King. Champion shire. stallion,
Kiter Tuttlebrook King. Champion Shire
Tuttlebrook Esq. Champion Shire mai
Halo.
HEAVY-DRAFT HORSES. A very commendable display of teams and
single drafters on the line and in the single har-
ness was made. In single harness thirteen came ness was made. In single harness thirteen came
forward, and made a stirring sight. Ravenna King easily won the red ribbon, and
harse by Heotish a
Pride, the blue. King is an outstanding horse for quality, and, individual of the very first magnitude. When shown on the line Ravenna. King again was first with Jim, a horse by Celtic Baron, second. He
does not have the slope of shoulder and pastern does not have the slope of shoulder and pastern
of Ravenna King, but he is a draty horse. Another gelding, Mac, was third. He is
big horse and worthy of the place.
In the two-year-old drafters, Rose, a mare by
She is thick in the body, Glen Rae, was first. She is thick in the body,
has good quality in limhs, and is a dratter
in every way. Tillie, in the second place, was in every way, Tillie, in the second place, was
even larger, but did not possess the quality of Exhibitors: Brownlee \& Cárefoot, R. H. Grake, Clarksburg ; Thomas McMichael \& Sons,
Seaforth; J. C. Bull. Brampton ; Fierhelle Seaforth: J. C. Bult Donald Wikinson, Harri-
Bros., Mount Elgin : Dhile MaDonald stan; D. S. Jitt. Mitchell Philip Mari Bros. Rayside ; John Hillis., Jr., Grand Valley ; Allen Hried, Rosevili, Aspeler.
Hector McCaig, He shown in single
Awards.-Gelding or mare Awards.-Ge Brownlee \& Carefoot, on Ravenna. harness: and 3, Grake, on Harry, and McBrown ; 4, Litt, on Pat; 5, Mcdonald, Jan. 1st. 1911,
 Grake, on Mac, and Harry ; 5, 1, McMichael,
Gelding or mare, two years old 1 , Mo Gen
on Rose, 2, Agar \& Son, on Tillie; 3, McCaig,
on Charlie; 4, Fried, on Queen. Team in har-
Bull: 2, Brownlee \& Carefoot, on ness: 1, Bult and Ravenna Queen; 3, Grake, on
Ravenna King, and
Harry, and Mac ; 4, Litt. on Mike, and Pat; 5, Ravenna and Mac; 4, Litt, on
Harry,
McDonald, on George and Joe.

| No horse show would be complete without the |
| :--- | No horse show would be complete without the

spectacular display of the Hackneys. They liven
up the visitor even to a state of excitement as up the visitor even to state an and down the ring-side with their
they go up and and action. Some of the old
orses over 15 hands 2 inches, and won again.
De Wilton is a big, strong-going horse, and, al
hough he does not have the extre, though he does not have the extreme action of some horses, yet he goes straight and fearlessly.
Harviestoun Fanatic showed well on the line, hoth in knee and hock action. and was worthy of
second place. Spartan could not exhibit the second place. Spartan could not exhibit the
same trueness in his movements or handle hio
hocks ns well as the foregoing horses, but he hocks as well as the foregoing horses, but he and is a well put-up horse. Anticipator went
fourth and Brigham Lord fifth. The former lis a good moving horse and would show well in any company, while the latter can only be faulted as
turning the steel a little out in his otherwise good performance. Blanch Surprise, the winner und champion of 1911., came forward again. He still has the strength and bloom of a younger horse and made stride and folding of his fore limbs hire body anis commendable points and won first place for him over
Vanguard, $a$ horse with good conformation and action, though not as near perfect as that of lace, Surprise. Income worked into third and strong, though not as spectacular as that of other horses in the ring. Brookfield Laddic, pretty horse, with good underpinning,
ourth, and Wenona Jubilee fifth. Only three two-year-old stallions came out,
and of these Paderewaki was the most highly do veloped individual, and showed the most training. Burntwood Model was next in connorme-
tion and action, while Wenona Performer was third.
Five
then Five aged mares came forward, but Lochrye
Princess soon proved herself to be without ain equal in the ring. Her conformation is right, and action exceeding straight, high and foldings Both in her fore
Princess Fudora, a pretty dark bay, wal alro
conspic conspicuous for her quality, class, and wont gooc-
travel with the best of the clatis.
ond. ond. Two good mares, Jewel and Frivolous,
went third and fourth with Birdy Brigham, a
fair mover, fifth. air mover, firth.
Four young mares were there, with Mise Darwent in the lead for sonformation and action,
and Daisy Performer next in style, but not quits the Hacknoy conformation and action as the one
before. A Young chestnut, Dante Model, made a
good showing and went third, but with a. ittlo good showing and went third, but with a littio
growth and additional training more fayorable reports may later be made concerning her. set by the class in conformation or action, and
was contented with furth place. was contented with fourth place.

$$
\begin{aligned}
& \text { Princess champion mare. } \\
& \text { Dr A. A. Routledge, of Lambeth, and Dr. P. } \\
& \text { C. Grenside, of Guelph, mede the awards in thit } \\
& \text { and all classes of light horses. }
\end{aligned}
$$ heyne, Nerry West ; A. Watson, St. Thomas

John Semple, Milverton ; T. H. Heasard, Martham ; James A. Myles \& Co.. Heathcote; Bennet
Bros., Carlisle ; J. Fusband, Fden Malle Joseph Telfer, Milton ; W. C. Quickfall, Glenalle
H. G. Boag, Barrie ; J. Ftaples
I. Sons, Ide
I. Hanmer, Burford ; Dr J. G. Hanmer, Burford ; Dí. Grenside, Guelph
R. G. Rogerson, Fergus; C. M. Blyth, Guelph. nches : 1, Semple, on De Wilton, by hands tro
Incilanisi
Hassard, on Harviestoun Fanatic, by Mathies 3, Tilt \& Cheyne, on Spartan, by Dolomius ; 4, Co., on Anticipator, by Rosador ; 5, Myles \&
Aged on Lord, by Lord Denby 2nd Aged stallion, under 15 hands 2 inches; 1 , Bo
on Blanch Surprise, by Rosador ; 2 , Telier, Vanguard, by Alarm; B, Quickfall, on Income, by Rosador ; 4, Husband, on Brookfield Laddie, by
Smylett' Smylett Swell; ; Watson. on Wenona Jubafter
by Jubilee Chief. Stallion, foaled on or ater
Jan 1st, 1911: 1 Teller. on Paderwealk Jan. 1st, 1911: 1, Telfer, on Paderweekd, by
Vanguard; 2, Osier, on Burntwood Model, by Anticipator : 8, Watson, on Wenona Performer, by Guelph Performor, Mare. foaled previous to Princess, by His Majesty: 2. Telfer, on Princess Fudora, by Vanguard; $\mathbf{3}$. Hassard, on Jewell, by Warwick Albert; 4, Staples \& Sons, on
Frivolous, by Glenrosa ; 5. Myles \& Co., on Birdy Brigham. Mare, foaled on or after Jan. by Derwent Performer ; 2, Watson, on Daisy Performer, by Guelph Performer; 3, Rogerson, on
Dante Model, hy Warwick Model ; 4, Watson, on Dainty's Maid, by Gueph Perorme STANDARD-BREDS. Only a few of this class were out, and the
aged.stallion class was the most complete.
Antevola Rysdyk, the champion of Ottawa WinAer Fair and the Canadian National this year was first again, and later champion stalion of
the breed. General Worth was second, and the breed. Genera
Royal Hergie third. Chief Brino won out in the two-year-olds over
Roval Melrose. The winner is a horse with an
abundance of quality and good limbs, while
Chicago, proved conclusively that yearlings made
Reyal Melrose will show a little more substance.
more economical gains than older cattle. The Noyal Melrose will show a little more sabstance.
NaKay, in the aged-mare class, was a winner, and later champion mare Antevola Rysdyk champion stallion.
Exhibitors: Ira A. Mahee, Aylmer; S. A
Devitt Burkson: T. H. Hassard, Markham Devitt, Burkson; T. H. Hassard, Markham Ire Baker, Cainsville; W. H. Mancell, Fletcher Wm. Sager, Troy.
Awards.-Stallion, foaled previous to Jan 1st, 1011: 1, Devitt, on Antevola Rysdyk, by Royal
Rysdyk: 2, Mabee, on General Worth, by Gambetta Wilkes ; 3, Hassard, on Royal Hergie, by
Royal Rysdyk ; 4, Baker, on Metallas King, by Royal Rysdyk; 4, Baker, on Metalas King, by
Metallas. Stallion, foaled on or after Jan. 1st, 1911: 1, Attridge, on Chief Brino, by Wild
Brino ; 2, Gardhouse, on Royal MNelrose, by Gendral Melrose. Mare, foaled previous to Jan. 1st,
$1911: 1$, Mabee, on Nancy McKay, by Gambetta Wikes ; 2, Sager, on Ideal, by Beau Ideal. Mare, foaled on or after Jan. 1st. 1911:
on Queen Melrose, by King Melrose

THOROUGHBREDS
This breed made a strong showing in the stalion classes, but the entire number of individuals was not large. Nasbaden again won his class, as he has previously done, but it was a strong
Sight. Selwick, the second horse, has substance asht well as quality and good conformation.
Charlie Gilbert, the horse with the white ribbon, Charlie Gilbert, the horse with the white ribbon,
had no superior in the ring for quality, but the had no superior in the ring for quality, but the two uppermost horses possessed a hittle more
Glimmer was fourth and Buccleuch
uitthe. Seven horses in this class made a strong Seven horses in this class made a strong ing quality.: Sam T. won from three other young stallions, and Lady Rosebery Coventry
from two other young mares,
Both were full of rom two other young mares. Both were full o
quality and had substance combined.
Exhibitors: A. E. Currie, Ospringe ; James Exhibitors: A. E. Currie, Ospringe ; James
ovaird, Brampton ; John Coventry, Woodstock Bovaird, Brampton; John Coventry, woodstock
Will Lowes, Drayton; F. D. Parsons, Guelph
, Pher
 Awards: Aged stallion: 1, Thayer, on Nas
baden, by Masturtium; 2, Bovaird, on Selwick, baden, by Masturtiumitle, B, Currie, on Charlie
By Knight of the Thistle
Giibert, by Masetto ; 4, Lowes, on Glimmer, by Gilbert, by Masetto ; 4, Lowes, on Glimmer, by
Martinas; 5, Myles \& Co.. on Buccleuch, by Bal Eamo. Two-year-old stallion : 1, Sam T., by
Earl G.; 2, Coventry, on Hermit Coventry, by Martin.; ${ }^{2,3}$, Coventry, McCrae, on Percy, by Per-Se.
Marte foaled on and after Jan. 1st, 1911, age Mare foaled on and after Jan. 1st, 1911, age
considered: 1 and 2 , Coventry, on Lady Rose-
bery Coventry, by Crichlade, and Red Mart, by bery Coventry, by Crichlade, and Red Mart, by
Martinas; 3, Thayer, on Allmer, by Nasbaden Champion stallion: Nosbaden

The struggle in these classes was between Royal Review and Talke Fire Alarm, in the
Hackney pony class. The latter horse was champion and grand champion at the Canadian
National and later at the National Live Stock National and later at the National Live. Stock
Show in Toronto. He also has a winning record in the Old Country, but went down at this
time to Royal Review, a horse with a little more time to Royal Review, a horse with a little more
substance and a par on action. In the Hackney substance and a par on action. In the Hackney
mares, Lady Horace, with the best all round acmares, Lady Horace, with the best all round acGreen Brae Fair
houxhibitors: E. B. H. H. Hassard ; J. M. Gardhouse ; E. B. Clancy, Guelph; Joseph Russell,
Toronto ; Ralph'Ballagh \& Son, Guelph; A. Bar-
ber, Guelph; T. S. Russel, Downsview ; Mrs. W. ber, Guelph; T. S. Russel, Downsview; Mrs. W.
Hunter \& Son, Orangeville ; Lloyd-Jones, BurHunte
Awards: Hackney stallion: 1, Hassard, on
Royal Review, by Fire Boy Talke Fire Alarm, by Talke Wildfire. Hackney mare, any age: 1, Gardhouse, on Lady Horace,
by Plymouth Horace ; 2, Joseph Russell, on Green Brae Fairy, by Plymouth Horace; 3, Fairview
Golden Pippin, by Fairview Golden King. ShetGolden Pillion, any age: 1, Ballagh \& Son, on Shadeland Royal, by Shadeland Navaro; 2, Bar-
ber, on Lefty Jack. Shetland mare, any age: ber, on Lefty Jack. Shetland mare, any age:
1,T. S. Russel, on Daisy, by Prince of the
House of David. Pony stallion, any other breed: 1, Mrs. Hunter \& Son, on Electricity : 2, Bal-
lagh \& Son, on King Domino ; 3, Lloyd-Jones, lagh \& Son, on King Domino; 3, Lloyd-Jones,
on Daylight. Pony mare, any other breed Clancy, on Fairy Queen. Champion pony stallion: Royal
Lady Horace.

Cattle.
Although the prize-winners in these classes
were examples of well-finisherd cattle of the right were examptere were occasionally some which showed neither type nor finish. The mission of
the Winter Fair will not be accomplished until the Winter fair whe east to the west of Ontario
every man from the end
knows by sight and touch the properties of a knows by sight and ouch the properties of a
good, stall-fed brute One thing is gratififing
however, and that is the numerical superiority of however, and that is the numerical superiority o
the yearlings over older classes. By actual test and records the winher of the carload lot of bee
cattle at the International Live-Stock Show, in
record and statement are not susceptible of
criticism and establish the query, why feed older cattle? SHORTHORNS.

Shorthorns dominant far outnumbering any of the other breeds, and the yearling classes were stronger in numbers and showed better type and quality than
the older animals. I, horn, two-year-old, was first, in his class at the in Toronto. He was an evenly-fleshed steer and flesh was not as strm as was that of the winning class, with Louise again first in the yearling class, with Louise Lad, a large, red steer which evenness, but he is deeply covered and easily won
his class. his class.
ling heifers, really good class was the seven year ling heifers, of which Miss Quality was first, and
Missy Mildred second. The winner was an elegant handler and evenly, thouch not deeply,
fleshed. Yet a stronger class was found in the heifer calves, wherenger uniform was lot of eleven appeared. Mable Mysie won not on size, but on
fineness and quality. The second heifer was larger but of good type, yet without the depth of flesh and firmness of number one. Graham, Wyoming : Albert TBarher, Gualph ; D. A Brown \& Sons, Gait ; Charlie Rarr, Blyth ; John Barr, , Blyth ; Daniel Wright, Ariss; T. A. Russell, Smith, Carluke; Creorge Ferguson, Salem ; David Currie, Rockwood; Alpx. Young, Glanford
Pritchard Bros., Fergus; Norman Brown, Norval; Kyle Bros., Drumbo: George B. Armstrong Teeswater; Peter Stewart. Everton; .J. A. Watt,
Elora; A. F. \& G. Anld, F.don Mills: F. Rrion \& On, Ridgetown; Peter W. Glennie, Fernbank Everton. Awards.-Steer, two years and under three :
Barber; 2, Brown \& Sons: 3, Charlie Barr ;


Grand Champion
Red Paul, a two-year-old heiler, champion at the $\begin{gathered}\text { Armstrong, Fergus, Ont. }\end{gathered}$
Armstrong. Steer, one year and under two: 1, Atwood. Barber; ${ }^{2,}$ Brown \& sons; ${ }^{3}$, Wright;
Russell. Steer, under one year: 1 , Ferguson 2. Pritchard Bros.; 3, Smith; 4, Currie;
Barr. Heifer, two years and under three :
1 Kyle Bros., 2, Charlie Barr: 3, Norman Brown 4, Armstrong. Heifer, one year and under two 1, Armstrong; 2, Stewart: 3, Auld; 4,
Bros.; 5, Alton, Heifer, under one year: 1 ,
and 4, Auld ; 3, Kyle Bros.: 5, Armstrong. HEREFORDS
Some very good individuals came out in these
classes, but the breed is capable of producing a
better average than was seen at the fair. The winners alvays had a considerable depth of flesh-
ing, but some showed a slight unevenness and ing, but some showed a slight unevenness and
occasionally one would show a lack of finish. occasionally one would show a lack of finish.
Mrs. Hunter \& Son, of Orangeville, had the only Mrs. Hunter orfer, two years and under three. In the yearlings, L. O. Clifford, of Oshawa, was
tirst and second. Both were well fleshed, and tirst and second. Both were well fleshed, and
the first pasticularly was a good handler and firm. Walter Readhead, of Lowville, was third
and fourth. Only three came out in the steer class, under one year. Clifford took first; Henry Reed, of
Mimosa took second, and Mrs. Munter \& Son third. Heifers, under one year, were a better
class. and Mrs. Hunter \& Son won first and class, and Mrs. Hunter \& Son won first and
fourth, while second and third ribbons went to fourth,
Cliftord.

Adam Armstrong, Fergus; Jas. Bowman, Adam Armstrong, Fergus; Jas. Bowman,
Guelph, and John Lowe, Elora, were the only Guelph, and in this breed. In the two-year-old lass, Bowman was first and second and Armstrong third and fourth. In the yearling class, Armstrong took first, third and fourth, with first and Bowman second and third.

> GRADES AND CROSSES.

These classes brought out some superior ani-
mals and made a very commendable showing. In nals and made a very commendable showing. In pion appeared again. During the past season he pion appeared again. During the past season he He was champion steer at the Canadian Na, tional, but went down to defeat before Lowe'
Black Monarch, at the National Live Stock Show in November. Yet he reversed the decision at the Stock Yards Show and again went down to
defeat at the Winter Fair before a two-year-old defeat at the Winter Fair before a a two-year-old
heifer shown by Adam Armstrong. In the yearheifer shown by Adam Armstrong. In the year-
ling steers, Lowe was first on Midnight 2nd, well-fleshed steer, hut not the equal of his afore
time stall mate, Black Monarch, that won at the time stall mate, Black Monarch, that won at the
National tive Stock Show. Russell was second with a large roan, good on the loin, but not as good on the hack or rib as Midnight 2nd. Seven
steers, under one year of age, came forward, and steers, under one year of age, came forward, and
Kyle Bros. were first on a deeply-fleshed steer and Lowe was second on Hector, the champion butcher calf at Toronto in November.. Th champion of the beef cattle came out in the two-
year-old heifer class. Adam Armstrong's Red year-o, a hemall but deeply-fleshed heifer, won her Paul, a small but deeply-leshed heiler, won her
class and later the championship over all breeds
or crosses. Capt. Robson, of London, who judgor crosses. Capt. Robson, of London, who judg-
ed all the beef cattle, proclaimed her fitted with ed all best quality and depth of natural Ceshing that he had seen in many a day. Some fairly good heifers, one year in age, came betore the judge,
and the red rihbon went to Peter Stewart, on and the red ribbon went to Peter Stewart, on
Beauty, a good, blocky roan, well fleshed and Beauty, a goor, was second and had a rather up-
firm. Barber was
standing animal, but fairlv foen in flesh, whilo Henderson was third on Henderspon was fleshed but - un-
deen heifer. over heifer.
Exhibitors: Adam
Armstrong; Leadk Armstrong; Leack \& Son
 Pritchard Bros., Forgus;
John Brown os ons,
Galt ; Joseph Abel, WanSte a d; D. A. Graham, Wyoming; John Liw $\theta$,
Elora; Robt. S mit h ,
Watiord; Albert Barber, Hara; Roblibert Barber,
Wueltph; Al. A. Rusbell, Downsview: E. T. Howse, Arise ; Joh h
Wood, Fergus;
Barr, Blyth; Goo. Fer-
guson, Salem: Th os. guson,
Foresi,
Young, Young,
Bros.,
W. H. James Munter \&innon Hirl
burg; Wm. Murdo
Palmerston; J. C. Palmerston; J. C. Hen-
derson, Guelph ; Peter
Stewart, Everton. Jea Stewart, Everton ; Jas.
Barbour, Fordyce ; John
Currie Currie, Rockwood:

Awards: Steer, two years and under three : 1
 Yearling steer: 1 , Lowe ; 2, Russell; 3, Brown;
4, Howse ; 5, Armstrong, Steer year: 1 , Kyle Rros.; 2 , Lowe ; 3, Barr ; 4, Fer-
guson: 5 , Forest. Heifer two years and under three : 1, Armustrong; 2, , Brown; , 3, Lowe. Year
ling heifer : 1 , Stewart. 2, Barber. son; 4, Kyle Brow.; 5, Wright. Heifer, under
one year: 1 , Barbour; 2, Currie; 3, Lowe ; 4, Barr,
Beef grades and Arosser (ors AND Crosses
Fxhihitors: Benjamin Tolton; Charles Barr E. T. Howse ; A. R. Wood, Fergus; N. McKersie Mckinnon. Hockwood; David Smith, Carluke ; Jas ton: Norman Brown, Norval ; Walter, Readhead Lowville; Jas. Barbour, Fordyce; John S. Cow Awards: Steer, two years and under three : 1 Tolton; 2, Barr. Yearling steer: 1, Howse; 2,
Barr. Sleer, under one year : 1, Smith;2, Mc
Kersie ; 3 , Barr; 4, McKinnon: 5 , Murdock.
 Barbour. Heifer, under one year : 1, Barbour
2 and 3, Mcliersie 2 and 3, Mckersie; 4, Cowan.

THE FARMER'S ADVOCATE.

THREE EXPORT STEERS. John Brown \& Sons were first on three mer
dum-sized Shorthorns, quite deeply fleshed and dum-sized Shorthorns, quite deeply fleshed and
Barber was second and third with
mooth. three very large steers and three of medium size. of flesh, but they were a little low in the back Angus steers, quite well finished, but not exAngus steers,
tremely large.

## Sheep

The sheep department was strong as usual.
No more entries were received this year, but the quality of the sheep shown was of high merit. Those sheep that were shown at the National in
November and taken to Chicago came back in vory good bloom, but, in some cases, they were
defeated by individuals that had remained at home after the Toronto show, but had been
themselves beaten;while there. The weather at Chicago was exceedingly warm and little ventila-
tion could be furnished for the sheep, so they tion could be furnished for the sheep, so they
suffered more than is customarily the case. Yet it is a credit to the individuals that underwent the extra show that they could come back in such good bloom

BREEDING CLASSES
Exhibitors: E. Brien \& Son, Ridgetown;
Jas. A. Campbeli, Thedford; L. Parkinson, Juelph; Samuel Dolson \& Sons, Norval. , Dolson \& Sons; 2, Brien ; 4 and 5, Campbell son
Three ewes under one year : 1, Dolson, $; 2$, Brien ;
3, Camphell. 3, Campbell. Wether, one year and under two
$1,2,3$ and 4 , Brien \& Son. Wether, under one year: 1 and 2, Brien; 3,4 and 5 , Campbell.
y


INCOLNS.
Exhibitors: H. Lee, Highgate; Joseph Linden,
Denfield ; L. Parkinson, Guelph ; E. Brien \& Son. Awards.-Ewe, under one year: 1, 4 and 5,
Lee; 2 and 3 , Linden. Three ewes, under one
year: 1, Lee ; Linden ; 3 , Parkinson. Wether,
one year and under two : 1 and 3, Linden ; 2, ne year and under two 1 and 3, Linden; ${ }^{2}$ Lee; 4, Brien. Wether, under one year: 1 and wethers, under one year': 1. Parkinson ; 2, Lee 8, Linden. Leicesters.
Fxhibitors: James Roy, Boraholm ; A. \& W. W.
Whitelaw, Guelph ; John Kelly, Shakespeare ; James Clarke \& Sons, Morriston; D. A. Graham, Wyoming.
Awards.-Ewe, under one year : 1, Roy ; 2 and
 Kelly ; 4, Rear: Wether, one year and under two: Kelly ; 4, Roy. Wether, one year and
1 and 2, Kelly ; 3 and 4 . Whitelaw. Wether,
3 and 4, under one year $: 1$ and 5 . Roy; 2,3 and 4,
Kelly. Threa wethers, under one year : 1 , Kelly; Kelly. Three wethers, under one year: 1, Kell, 2, Roy ; 3, Whitelaw. Champinn wether,
on shearling, a firm, well.fnished individual, one of twins. oxFORDS.
Exhibitors: J. A. Cerswell, Bondhead; Peter Adam Armstrong, Fergus. Awards.-Ewe. under one year: 1 and 3 , Cers-
well; 2,4 and 5 , Arkell. Three ewes, under
Wether, one
 one year: under two: 1, 2 and 3, Arkell; 4,
year and und
Stevenson: 5 , Cerswell. Wether, under one year:
 wethers, under one year: 1. Ark.
son ; 3, Cerswell ; 4, Armstrong.
Exhibitors: Adam Armstrong ; J. \& D. J. Campbell: John R. Kelse
Hanmer.
A wards.-Ewe, under one year: 1, 2 and 3 , Awards.-Ewe, under one year: 1, 2 2 and
Campbell; 4, Kelsey ; Hanmer. ${ }^{5}$, Three ewes,
Kamphell ; 2, Kelsey ; 3, Campbell; 4,
under one year 1, Campbell ; ${ }^{2}$, Kelsey , Ca,
Hanmer ; 4, Lloyd-Jones. Wether, one year and under two: 1, 3 and 4, Camphell; 2, Kelsey. Wether, under nee ${ }^{\text {ones }} ; 3$ and 4 , Campbell. Three wethers, un-
 which went third at in the most recent event to
Chicago, going down in
Kelsey's wether. Campbell again had the best Kelsey"s wether. Campbell aga
wether of the short-wool class.

SoUTHDOWNS. Byron; J. W. Exhibitors: Robt. McEwen, Byron, J. W
Springstead \& Sons, Abingdon ; Geo. Baker \& Springstead \&urford; J. Lloyd-Jones, Burford. Awards: Ewe, under one year: 1,2
McEwen ; 3 and 5 , Springstead. Three ewes,
McEwen: 2 , Springstead; 3


 Springstead. Three wethers. under one year
McEwen ; 2, Lloyd-Jones ; 3, Springstead ; McEwen
Baker.

DORSET HORNS.
W. Exhibitors: Stunrt J. Rohertson, Mrilton West; W. E. Wright \& Son, Glanworth.
Awards--Ewe, under one year $: 1$, Robertson:
2, 3 and 4 , Wright. Wether, one year and under 2,3 and 4, Wright. Wether, one year and under
two : 1,2 and 3 , Wright. Wether, under one
year : 1,2 and 3 , wright. year: 1 , 2 and 3 , Wright. Three wethers. unhampshires ant suffoliks.
Fxhibitors: :John Kelly. Shakespeare; James
Bowman, Guelph; Geo. Henderson, Guelph. Amards.Ewe, under one year: 1, 2 and and 3 , Kelly. Wether, one year and under two : 1 ,
Bówman ; 2 , Kelly; 3 , Henderson. Wether, un-
der one year: 1 and 2 , Kelly ; 3, Bowman ; 4, der one year: 1 and 2, Kelly; 3 , Bowman;
Henderson. Three wethers. under one year : Henderson. Three we
Kelly ; 2. Henderson.
grades or crosses
Long Wools.-In this class some sheep had
been subjected to three showings, and did not carry the same bloum after their Chicago trip as law's entry was first at Toronto but went down to third here, and Linden's. which was second at
Toronto, went up to first. Parkinson's sheep Toronto, went up to first. Parkinson's sheep
were fresh and came in for second and fourth werees, while, in spite of all the travel Lee's champion long-wool wether, at Toronto and Chicago, still held his place. Awards.-Wether, one year and under two : 1, Awards.-Wether, one year and under two : 1,
I.ee 2, Whitelaw; ; Brien 4, Kelly ; 5, Linden.
Wether, under one year: 1, Linden; 2, and 4, ParkWether, under one year: 1 , Linden; 2, and 4, Park-
inson ; 3, Whitelaw; 5 , Lee. Three wethers, under ons year 1 , Parkinson ; 2, Whitelaw' 3,
Brien : 4, Linden. Brien : 4. Linden.
Short Wools:-
again in the shearling wether class. Camphell's winning wether was first, with Kelsey second on a larce, thick sheep, but just a triffe past his
best condition. Campbell was third and Lloydbest condition. Campbell was third and Lloyd
Jones fourth and fifth on two firm sheep, thickly


Two-year-old Jerseys.

 Awards.-Dsear ; 4 and 5, Lloyd-Jones. Wether, YORKSHIRES, under one year: 1,2 and 5 . Kelly ; 4, MeEwear
3, Lloyd-Jones. Three wethers, under one year
1, Kell 1, Kelly : 2, Compell : 3, Lloyd-Jones: 4, Baker.
oressed carcasses.
Cotswold.-Wether, one year and under two
Brien. Wether, under one year: 1, 1, 2 and 3 , Brien. Wether. under one year: 1, Lincolns.-Wether, one year and under two : 1, Linden $; 2$, Lee ; 3, Brien. Wether, under one Leicesters.-Wether, under one year : 1 and 3, Whitelaw; ; 2, Kelly,
Oxfords. $-W e t h e r, ~ o n e ~ y e a r ~ a n d ~ u n d e r ~ t w o: ~$
We
 under one year : 1 and Cerswell ; 5 , Armstrong. Shropshires.- Wether, one year and under two 1, Lloyd-Jones; 2, Kelsey: 3, Camphell. Wether,
under one year: 1 and 5, Kelsey, 3, Campbell ; ander one y y Joyd Jones. Southdowns.-Wether, one year and under two 1, Lemon; 2, Lloyd--Iones: inder one year: 1, Springstead, 2, , Iloyd-Jones; 3 and 4, Baker.
Dorset Horns.-Wether, one year and under Dorset Horns.-Wether, one year and under
wo : 1, 2 and 3 , Wright. Wether, under one year: 1, 2 and 3, Wright. . Wether, under one Hampshires and Sumoks. Wether, year: 2 , Kelly.
Grade or Cross, sired by ram of Long-Wooled
breed.-Wether, one year and under two : 1 , 2 and 3, Brien. Wether, under one year:1 and 4, Whitelaw; 3, Campbell ; 2. Briert ; 5, Lee.
Grade or Cross, sired by ram of Short-Wooled
breed-Wether, one year and under two: 1,
Lloyd-Jones ; 2, Baker; 3, Lemon; 4, Wright Lloyd-Jones; 2, Baker; 3, Lemon; 4, Wright:
5, Campbell. Wether, under one year: 1, Mo- Mo.
Ewen ; 2, Springstead; 3, Campbell; 4, RobertEiwen; 2, Springstead ; 3, Campbell ; 4, RobertThe Drummond cup was won by Robt. Mceween
 distinguished in the bunch. The judges were: Cotswolds, Chas, Shore, Glanworth; Leicesters, Jumes Douglas, Cale-
donia ; Lincolns, Harry Gibson, Denfeld; (Oz-
fords Ji, Cousins, Harriston, Shrophion fords, J. E. Cousins, Harriston; Shropshirea, Noel Gibson, Pottersville, N. J. ; Short-wool
grades, H. Noel Gibson, and R. H. Harding grades, H. H. Noel Gibson, and R. H. Aarala,
Thorndale ; Long-wool grades, Shore, Douglas, Thorndale; Long-wool grades, Shore, Douglae,
and Gibson ; Sheep carcasses, Geo, Morris, London.

## Swine

The exhibitors of the swine department had avery reason to feel satsisith with the substantial improvements mad for the housing of their exhibits, and the innovation of judging the bacon classes in the large judging ring. Another new feature or ap cational feature of great value was the separate housing of the winners in the bacon coasses and the ticketing of the various pens dension year in the number and quality of the ontries, which wers quality.
The class of bacon hogs, two pure-brede, brought out a lineup of Afteen lots, exhibited by thour \& Nephew, Burford; M. Wilson, Fergue ; D. Douglas \& Sons, Mitchell, is. Dolson \& Sond,
Dorval Station, and Wm. Murdock, Paimer Norval Station, and Wm. Murdock, Palmerstom,
Other shows of the year have seen a more unlhave seen a more uni-
form entry, but o o me
toppers were in the line
up. D. O. Flatt, of toppers were in the line
p. O. Flat $t$, of
Millgrove, placed ine up. D. C. Flat t, of
Miligrove, placed ind
awards as follows: :
4. and 8 , Brethour ;
 3, and 9, Murdock; ${ }^{5}$,
Wilson ; $\quad$, Douglas $; 10_{\text {, }}$
Dolson. Two grades or Dolson. Two grades or
crosses had an entry of crosses had an entry of
twelve lots tnat showed.
a better balance than a better balance than
did the purebreds. 1
and 4 , Douglas ; 2 and and 4, Douglas ; 2 and
8, Brethour $S_{\text {, }}$ Wilson;
6. Feathorston: 7 , Murdock, Champlonghip for
pair of bacon hoga went
to Brethour on h1s pure

 hogs went to Brethour
Special for best b a co Special for best bacoa
$\mathrm{h} \circ \mathrm{m}$ exhibited by a Yorkghires were out strong and of high qualMurdock and Ezard, and judged by D. C. Flatt, whose awards were: Barrow, six months and under nine: 1 and 2 , Brethour ; 8 mand 4 , Featherston. Barrow, uuder six months: 1, 1 , Feether-
ston; 2 , Brethour ; 8 , Wilson: 4 , Murdock. ston; 2 , Brethour; ${ }^{\text {s, }}$, wilson: 4, Murdock.
Sow, nine months and under fifteen : 1 , Featherston; ${ }^{2}, 3$ and 4 , Brethour. Sow, six monthe
and under nine : 1. Murdock; 2 and 3, Brethour and under nine : 1. Murdock; 2 and 3 , Brethour;
4, Featherston.
Sow, under six monthe: 1, 4, Featherston. Sow, Muder six monthe : Litter of three : 1 and 2, Brethour; 3, Featherston. Champlon
barrow : Brethour.
Champion sow : Featherbarrow
ston.

In number. bree hires made the strongest showing of any breed ingwn Exhibitors were: P. J. McEwen, Wy. Cowan, Atwood : S. Dolson \& Sons, Norval Station :
J. R. Jackson. Yatton, and W. J. Gililiand, ForJ. R. Jackson. Yatton, and W. J. Gilliland, For-
est. Judged by W. W. Brownridge, Georgetown, wht. Judged by W. W. Brownridge, Georgetown,
whiose rulings were : Barrow. six months and un-
der nine: 1 and 4o McEwen ; 2, Thompson. der nine : 1 and 4 . MicEwen : 2, Thompson; ${ }^{8,}$
polson. Barrow, under six months: 1 and 2 , nolson. Barrow, under six months : 1 and 2,
Thompson. Sow, nine monthe and under ifteen : Thompson. Sow, nine months and under fifteen : Sow, six months and under nine : 1, MceEwen ; 2,
Dolson ; 3, Cowan ; 4, Thompson. Sow, under Dolson; 3, Cowan ; 4, Thompson, Sow, under
six months : 1 , MeEwen 2, Gilliland ; 8 , Cownan.
Litter of three : six months: 1, , Me Mcewen ; 2, Thompeon; 8, Dolson; 4, Cowan. Champ.

## tamworths

 As usual, the competition in Tamworths was Itogether too limited to create any interest.Besides a large entry. by D. D. Douglas \& Sons, Mitchell, A.c. Hallman, Breslau, had two entries in the class for barrow, six montth and under nine, on which he won six monthe and under rine,
entry in class for oris to which he won third, Douglas
other awards.
CHESTER-WHITES.
Again, in this breed, there were only two ex-
Hastings: 3 and 4 , Campbell.
 Wrigh \& Son, Glanworth. Judged by John
FTast, , Milligrove, as follows: Barrow, six months
Wrinht.
 Barrow uñder six, months : , DeCoursey ; 2 and 3, Wright. Sow, nine months and under fifteen
1 and 2 , DeCoursey $;., 3$, Wright. Sow, under nine
 Sow, under six months: 1 and 3, DeCoursey; 2 Wright. Lhitter of three : 1, Wright; 2 , Decour-
bey. Champion barrow : DeCoursey. ${ }^{\text {Champion }}$ eow. Wright. ANY OTHER BREED.
In this class, Hampshires were shown by Hastngs Bros., Crosshin, and ouroc-Jerseys wer amper by S. Donson and resulted: Barrow, wix
uagged
 months and under nine e 1 and 2 , Campbell, is 3
and 4, Hastings. Sow, under six months $: 1$ and and 4, Hastings.
2 . Hastings $; 3$
The exhibitors in breed classes showed in this
elass with the addition of Henry Wilson, Goorgetown, and were judged by Prof. G. E. Day
Barrow, six months and under nine: 1 , Brethour Barrow, six months and onder nine in ; 3 , DeCoursey ; 4, Douglas. Bar row, under six months : 1, Dolson ; 2 , Douglas 8, DeCoursey ; 4, Brethour.
and under nine : 1 , Bow, sixethour ; month
2, Cowan ;
 Bert barrow exhibited by an amateur: 1 , J. E. Ezard ; 2, A. Stephenson. Best

The Maritime Winter Fair
The thirteenth annual Maritime Winter Fair
held in Amherst, N. S., on Dec. 8 to 11 , 1913, and was a decided success. The exhibit of beef cattle was not up to prehoary cattle, the bulk of the show being made up
of yealing and two-year-olds.
The
quality, of yearlings and two-year-olds. The quality,
however, was even superior to that shown last
 good show and are the eright stamp of beef cattle.
breedinn,
We mised the old herd of Herefords which had We missed the old herd or Herefords w. W. Black,
 about a year ago. $\Lambda$. Bradshaw, of Amherst,
showed eleven Herefords and nine grades, most showed eleven Herefords and nine grades, most
of which were good indiviuals and brought out
in fairly good show condition. in fairly good show condition.
In the class for Herefords and Aberden-An-
aus, Mr. Bradshaw won the lion's share of the gus, Mr. Bradshaw won the lion's share of the
prizes, his chief competitor being Horace Gill, of prizes, his chier compet who showed three Aber-deen-Angus heifers, and won first on two-year-ol heifier. first on yearling heifer, and fourth on on
heifer calf: also sweepstakes for the best animal in the class with his two-year-old heifer. MMr
Bradshaw also won first and second in the block Bradshaw also won first and second in the block
test, thus demonstrating the superiority of the test, thus demonstrateef.
The Shorthorn classes were fairly well filled The Sharthorn classes were fairly well flled
and most or them were orought out in good con-
dition. The principal exhibitors of shorthorns




The keenest contests were in the junior yearlings, good that was being offered. Severat good cows The keenest contests were in the junior yearsigg,
where H. Etter won
W. Forst, R. . . .
 first, senator Curry soor horth. The cup for best Shorthorn, any age, which
has always been one of the most coveted trophie has always been one of the most coveted trophie
of the fair, was won by Harold Etter, of West morland Point. N. B. In the grade classes che compet hon was orten keen, and most or the catle were mound exhibitors were.
good condition. The principal Harold and Hazen Etter, Charles and Edwin For rest, A. Bradshaw, C. W. Pugsley, River Her bert, and E. P. Anderson, Sackvile.
The cup donated by Hon. Wm. best grade animal, any age, was won by E. P. Anderson, Sackville, N. B., on a high-grade The most prominent feature of the show was the dairy test, the stables being filled with 87
cows of all the dairy breeds. The herd of S Dickey \& Sons, Lower Onslow, N. S., showed a splendid row of Holsteins of excellent quality and won a big share of the prizes. The grand championship for best cow, any brea, went to
one of Dickey's Holsteins with the phonomenal score of 259 points, making 78 lbs. of milk in ne day and testing as high as 3.8 per cent. fat
This is the highest score ever made at a $a$ Marihis is the highest score ever made at a Mar-
time Winter Fair and is, we believe, the highest score made any where in Canada this year. Mr.
Dickey also won frist in the grade class with
Holstein grade. which made a score of 243 points. graid, pint showed nine Logan Bros., of Amberst Point, showed nine
Holsteins, all good workers, and won a good Holsteins, all good workers, and won a good
share of the prizes.
Fowler Bros. Amherst Pt., showed one twoFon Wher Bos., Amherst Pt, showed one two-
year-old Holtein and five grades and won frrst on three-year-old grade, first on two-year-old grade, first and second on yearling grade, third T. W. Keilor, Amherst Point, showed three grades and one Holstein and won a prize. OR
every animal.
Shorthorns were shown by H. P. Lawrence Sharthorns were shown by H. P. Lawrence.
Nappan, and Geo. M. Holmes, Amherst. Jerseys were shown by J. E. Baker ${ }^{\&}$ Sons
Barronsfield. $\mathrm{N} . \mathrm{S}$. . Wm. E. Harding, of Amhers Barronsifid, N. S. Wm. E. Hirrding, of Amherrs
Point, and H. s . Pipes \& Son, of Amherst. W E. Harding wo nirst in the aged-cow class, mak-
ing a score of 201 points. H . S. Pipes \& Son ing a score of 201 points. H. S. Pipes \& Son
ghowed eleven high-class Jerseys, most of which were shown at the fall shows and several hav been in milk since Sept. 1 . The Messrs. Pipes mon first on yearling; first, second and fifth oo
three year-old $;$ third, fifth and sixth on two year-old, and fourth and fifth on aged cow, show
ing that a Jersey that is ing that a Jersey that is a prize winner in the
show-ring can also win in a dairy test. Ghuernseys were shown by D. G. McKay \& Son
 town, P. E. I. I. On aged cow, Roper won frrst
fourth and sixth ; Mckay second, third and fifth In three- year-olds, McKay first, Roper second Two-year-olds. McKay first, Roper second.
Ayrshires put up the strongest
class Ayrshires put up the strongest class in the
show, and were shown by Fred. S. Black, Amherst; C. P. Blanchard, Truro ; MciIntyre Bros. Sussex ; Geo. Retson, Brookside, N. S.; John Retson, Truro, and A. McRae \& Sons, Charrot on
town, P. E. I. . Blanchard won first on
 three year-olds, Fred. S. Black was first and grand champion for highest soring
Geo. Retson second,
McRae
Mhirdire,
Mcintyre fourth. In the two-year-old class, Fred. S. Black was again frrst, with McRae second, and
McIntyre third
McRae's McIntyre third. McRae's two-year-old, "Fair,
view Queen," is a daughter of "Milkmaid 7 th," which won the grand championship last year and has just finished a twelve-month record, making
a Canadian record, kiving 16,676 lbs. milk and
 did not freshen in time for the show this year.
J. R. Semple, of Brule, N. S., showed three Jerseys and three grades. The people of the Maritime Provinces are cer-
tainly naive

Sheep were a larger and better show than eve before: Albert and George Booswell, of Prince Edward Island, showed Leicesters. Hincolns and
Cotswolds John Retson, Truro, Leicesters ; Geo Retson, Licesters ; Samuel Lane, Leicesters Shropshires were shown by Geo. Boswell; Logan
Bros: James $T$. Stewart, Amherst Pt.; Ciphus Bros.s, James T. Steanart, Amherst Pt.; Ciphus
Nunn. Oxfords by J. E. Baker \& 8 Sons, Barronsfield, and Burder Goodwin, Baie Vorte
Hampshires by Ciphus Nunn and Geo. Boswell Hampshires by Ciphus Nunn
Suffoiks by Albert Boswell. Ginco. Boswell
Lincolns by C. w Pugsley, Barronsfield, and A. Boswell. Most of the sections were well anthed and the shoep in
thoos show condition. There would appear to be
goon good show condition. There would appear to be
good opportunities for more breeders of reall good stock to supply the demand for breeding stock which is now imported from other Pro
sinces.
It would apear to us that some vinces. Th wored of sheen would mate proth more use of the hillside pastures in the Maritime Provinces.
Hogs
made a a larger and perbaps better show Hogs made a larger and perhaps better show hogs, but it may be that some of the best of former years would have won over all this Yorkshires were shown by w. H. Pope Cook,
Little York,
P. E. I.; J. W. Callbeck, Summet side P. E. I.'; U. W. Forrest, Amherst Point; A A. McBeath, Marshfield, P. E. I.; Stewart Bros.
Alliston ; Geo. Boswell; A. Gill, Little Yorly Tamworths made a particularly strong show, the
 J. Gilison, Marshield, P.'.E. 1. Berkshires were shown by Peter Brodie, Little York; Fowler Bros. and Stewart Bros., J. T. Stewart. Am The show of sheen and swine from Prince Edward Island shows that the Islanders have not all gone over to raising black foxes, although
there is said to be more there is said to be more capital invested in foxes
than in cattle on the Island.

A Last Minute Christmas Gift. Christmas giving should not be carried to the
extreme of
burdening the donors. Most of the gift purchasing
by thill have
this
date ben done
concluding may yet be helpful. An excellent way to remember some friend, relative or acquaintanco
directly or indirectly interested in agriculture directly or indirectly interested in agriculture Farmer's Advocate and Home Magazine" for a year, which will carry with it a copy of the
Christmas Number of last week (which, by the way, seems to be exciting warmer commendation
 ing a great dea. . On a avantaye of such
present is that it continues $i$ its pleasure and sat isfaction weekly all the year through. Kindly advise us that the subscription is intended as Christmas gift.

## Death of Alex McNeill.

$\qquad$ in Alexander McNeill, Chief of the Fruit Division at his home in Ottawa on Monday morring last Mr. McNeill, who had previously rendered valuable public service in the position of chief fruit
inspector, was appointed head of the Fruit Divi sion Service in 1904 upon the retirement of W . A. Mcl innon to assume the position of Com-
mercial Agent for the Canadian Government at Bristol, England. Coupled with an extensiv practical knowledge of fruit growing, and par-
ticularly in apple culture, Mr. McNeil was able to apply a wide fund of general information bearfing upon the industry, which has been most help

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[^0]decemmer 18, 1913


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braiches of thts bant In every Canadian Province, and
in Newtoundand, West Indies,
Boston, Chicago and Now Tork

## 

Hogs.-Prices ranged
bREADSTUFFS,
Wheat.-Ontario, Rio. 2 red, white or
C, 93c. Mantoba-Wheat, No. 1 northin 92tc.
 Manitoba osta
Ryo. - No. 2, 88c. to 69 c .
Buckwheat.-No. 2, \%oc., outaide Cork.-American, No 2 yellow, 80c.
Cidland, and 85c., track, Toronto.
 First patents, $\$ 5.50$; second patenta, $85{ }^{\prime}$ fin cotton, 100
$\$ 4.80 \mathrm{in}$ jute.
COUNTRY PRODUCE.
 1ots, 24c. to 25 c .
Eggs. - New - laid,
doc. to $\mathrm{B5c}$. per dozen.
Cheese.-Old, large, 15 c .; twins, 15 ze e.
Honey.-Extracted, 10r. to 11c.; combs Honey.-Extracted,
$\$ 3.50$ to $\$ 3$.
Boana.-Imported, hand - picked, $\$ 2.3$ per bushel; Canadians, \$2.35, and
$\$ 2$ prer bushel.
Potatoes. from 80c. to 85c.; New Brunswick, 90
 22c.; geese, 12c.; dicks,
etickens, 16 cc . to 17 c : hens, 12 c . hay and millfeed. Hay.-Baled, car ints, No.
$\$ 14.50 ;$ No. $2, \$ 13$ to $\$ 13.50$. Straw.-Baled, in
per ton.
Rran.-Manitoba bran, $\$ 22$ to $\$ 23$, in Dafs, track, Toronto, shorts, $\$ 24$ shorts, 824 :
Ontario bran, $\$ 22$ in bag: sher micdlings, $\$ 24$.

THE FARMER'S ADVOCATE
toronto seed market. Alisike, No. 1, per bushel, $\$ 8.50$
$\$ 9.25 ;$ alsike, No. 2 , per bushel, $\$ 7$ $\$ 9.25$; alsike, No. 2, purbel, $\$ 8.50$
$\$ 8$ alsise, $\$ 7$
$\$$ alsike, No. 3, per bushel, $\$ 5$ $\$ 8 ;$ alsike, No. 3, per bushel, $\$ 5$ to
$\$ 5.50$ timothy No. 1 per bushel, $\$ 2.75$
to $\$ 3.25$, timothy, Wo. 2, per bushel, $\$ 2$ on $\$ 3.25 ;$ timothy, vo. 2, per bushel, bushel. $\$ 2$
$\$ 2.50$
to $\$ 2.50$; red clover, per bushel, $\$ 6.00$ o $\$ 2.50$; red clover, per bushe,
ic $\$ 7.00$.
HIDES AND SKINS.

 to \$8c., horse hides, No. 1, $\$ 3.50$ to $\$ 4$.
tallow, No. 1 , per ib, $5 \neq$ c. to 7 . Fruits and vegetables,

 cabbages, per case, 81.25 , and 6 sc c. to
80 c per dozen; turnips, 40 coc per bag;
beets, 7 Fc . per bag; carrots, 75 bc . per
bag. beets, 75 c . per bag; carrots, 75 cc . per
bagi, parsinp, 80 c . to 85 c . per bag,
Canadian celery, 45 c . to 65 c . per dozen.

## Montreal.

Live Stock.-The cattle market wès
fairly steady, little or no choice stock
arrived for the Christmas trade. The arrived for the Christmas trade. The
weather was favorable, being colder, and
demand from butchers was fairly active demand from butchers was rairly active
Considerable shlpments still go on to th
United States. Best steers brought 7 to. United States. Best steers brought 7 jc .
but the bulk of the trade continued to done at 6c. to 7c. per lb., including
medium to. good stock. Cows range

not very plentiful, and as a consequence
prices wwere quite firm. Demand was
good, and sales of. lambs wera made at
8c. to 8tc. per lb., while sheep were sold

$\qquad$ consequence trade in horses was 11 lgh
Heavy draft horses, weighing from 1,500
 1,400 to 1,500 lbs.,. $\$ 225$ to $\$ 300$,
broken--lown, old animals, $\$ 75$ to $\$ 125$, $\$ 350$ to $\$ 500$ each.
Poultry.-The market for poultry was
very arm indee. Demand was active
and and oferings fairly large. Pricen wore
unusually high. Dealers quoted turkeys unusually high. Deaders
at 20 c.
to $23 \mathrm{c} . ;$
ducks, 17 c . to 20 c. .;
 here at 19c. to 20c. per lb. Live ehick-
ens, 114 c. to 16 c . live owl, 11 c . to 15 c ., and live geese, 14c. to 15c.
Dressed Hogs. -There was a fair de
mand for abattoir - dressed, mand for abattoir - dressed, fresh - killee
hogs, at 13c. to 13 jc . per lb., while
 country-dressed were onering at 12 kc . for
13 c . for choicest, and 12 c . to 13c. 1 or choice.
less desirable. Potatoes. -The weather was more win-
try, and as a consequence prices were
firmer. Green Mountains
 lots, whlle Quebec varieties were about
75c. In a jobblng way, prices were 15 .
to 20 c . higher, ex store. Bags weig to lbs.
90 lbey
Honey Honey and Syrup.-White-clover comb
was 15 c . to 16 c .
 trained, 7 lc , to $8 \ddagger \mathrm{c}$. per lb . Tins maple syrup sold at 9c. to 10 c. per lb. ma Eggr. Eggs were very scarce,
End Arm
in price. Strictly fresh etock was 55 c .
 33.c. to to 34c., and No. 2 candled sold at
26c. to 27c. 26. $\begin{aligned} & \text { Butter.-The butter market was irme } \\ & \text { than ever. Choice makes were } 28 \$ \mathrm{q} \text {. } \mathrm{t}\end{aligned}$ than ever. Wholesale. Fine butter was
29. per ib., whol
28c. to 28 t.,., while second grades were 274 c . to 24 c . 24 c . per 1 l . at ${ }^{23 \mathrm{c} .} \mathrm{to} \mathrm{24c}$. . per little change in the
Grain.-There was
price of oats. No. 2 Western Canada
 bushel, ex store.
while No. 3 yelow corn was 80 te. per
bushel, ex store, and No. 3 maixed was
ontario malting bar-
 quoted at $\$ 5.40$ per barrel, in bagn; sec
onds being $\$ 4.90$, and strong bakers
$\qquad$
$\$ 4.70$. Ontario winter-wheat flour was
unchanged, at $\$ 4.75$ to $\$ 5$ for patents,
and $\$ \$ 4$ and $\$ 4.50$ to $\$ 4.60$ per $\$ 5$ forrel, in wood,
lor straight rollers.
Millieed
 and shorts at $\$ 23$, in bags, white mid-
dlings were $\$ 261$ including bags. Mouille
was was $\$ 29$ to $\$ 31$ per ton for pure, and
$\$ 27$ to $\$ 28$ for mixed. Hay--Prices were unchanged. No.
pressed hay, car lots, Montreal, on track,
was $\$ 16$ to $\$ 17$
 extra was $\$ 15$ to $\$ 15.50$, and No. $\$ 14$
to $\$ 14.50$ per ton, ex track. Hides.-There was no change last week.
Beef hides
Noere Beef hides were 12 c ., 13 c . and 14 ct . for
Nos. 3,2 and 1 respectively. Call
skins, $\$ 1.10$ each, with horse hitaes ranig sking from $\$ 1.75$ for No. 2, to $\$ 2.50$ each
ing
for for No. 1. Tallow sold at 1 id c. to 3 cc
per lob for rough, and 5c. to $6 \$ \mathrm{tc}$. fo
rendered. per lb. for
rendered.

Buffalo Choice, handy cattle, were popular
all markets the past week. Trade ha ruled weak on the heavier steers, but the handy ones have been in good, keen demand. At Buffalo, receipts for the week were 6,375 , as against 6,000 lor the Canadian supply was not large there
being not over fifty cars. Something like 9, 500-Canadians have landed in
Buffalo since the first of the year for Buffalo since the first of the year for
sale. This does not include through
attle irom the Dominion. attle irom the Dominion.
offerings haveincluded practically all kinds, from the prime, welghty eteor,
to the canner. The past weelk, weighty Cenadian steers sold up to $\$ 8.75$, best
price paid, excepting for a car of very
 show heavy corn feod, and are not dib-
criminated againat. Theene long-led Cana-
dians are kililing out up to 57 to 58 per dians are killing out up to 57 to 58 per
cent., which is a good, atrong percentage. Some time back there were plenty
of the heavier, "hippy" kinds of Cana-
dian dian heifers, and killers complained that
some of them were a little too heavy, some of them wore a little too heavy,
and were badly hooked and bruised in
shipm shipment, and after the price was taken
on of these, there was a let-up on them,
and the and the past week there were not enough
of these handy heifers to meet the de of these handy hoifers handy, and with a
manda. Anything
wealth of atto eolls readily, and indicartions are that they will continue to bo
in good, strong demand right along

 to 15 c . 10
the ame
punished
fat ones, fat ones, held to in prices, but handy, the demand remains strong for best milik-
ers and forward ppringers, modum and
 dian steers, $\$ 1,150$ to 1,250 best 1 bun, $\$ 7.25$
dian
it $\$ 7.75 ;$ Choice, handy steers, 1,000 to to $\$ 7.75$; Choice, handy steers, 1,00 to
1,100 lbs., $\$ 8$ to $\$ 8.50$; fair to good

$$
\begin{aligned}
& \text { cows, } 8.25 \text { to } 85.75 \text {; trimmers, } 83.25 \text { to } \\
& \$ 3.75 ; \text { best heifers, } \$ 7.15 \text { to } \$ 7.00 ; \text { medi- } \\
& \text { um butcher heifers, } 86.35 \text { to } \$ 6.85 ; \text { com- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { mon, light heifers, } \$ 4 \text { to } \$ 4.25 ; \text { best feed- } \\
& \text { ing steers, dehorns } \$ 7.25 \text { to } \$ 7.50 \text { fancy } \\
& \text { stock steers, } \$ 8.50 ; \text { best stock } \text { steeris }
\end{aligned}
$$

$$
\begin{aligned}
& \text { packers } \\
& \text { scatering sales at } 88.05 \text {. Feature or } \\
& \text { market was on plss, these gradee for }
\end{aligned}
$$


Sheep and Lambs.-Generally an $\$ 8.25$
market for top lambs first half of the
week, trade for closing days being

1. stronger, tops moving Friday from 8.25 to \$8.85, with gome reaching
\$8.40. Heavy lambs continue slow, the
undred-pound kinds eelling around cull Heavy lambs continue slow, the
hundred-pound kinds selling around cull
prices, ranging ifrom $\$ 7.50$ to $\$ 8$. Sheop were strong; top wethers, $\$ 5.75 ;$ mixed
sheep, $\$ 5.25$ to $\$ 5.50$ ewes, $\$ 5$ to $\$ 5.25$;
 week were 38,400: previous weok, 36,400 Calves.-Range on top veals reachod
11.75 to $\$ 12.50$, it being a $\$ 12.50$ mar et for tops Friday. Culls generally $\$ 10$
own, some reaching $\$ 10.50$, and grass-

 placed up around $\$ 6.75$. Runs for to
week totalled 1,$700 ;$ againat 1,925 tio previous week, and 1,300 a year ago.
Butter.-Creamery prints, 86c. to 87 , reamery tub, 85c, to 36c.; dairy, tanof
2. to 82 c . 1ic. to 32c.
Cheese. 17 c . to 18 c . Eggs. 44 cc .
Dressed Poultry - Turkeys, 22c. to ase,
owls, 16c. to 17e.; chickens, 170.
 22c. Livv
22c., ducl
to 15 c .

## Chicago.

nattle,-Beeves, $\mathbf{\$ 6 . 6 0}$ to 80.60 ; comp
and heifers, $\$ 8.40$ to 88.80 ; calvos, 87 to $\$ 11.50$.
Hoge
Light, 87.45
to
$87.80 ; ~ m i n d ~$
 rough. 87.55 to 87.65 ; pige $\$ 8.25$ to
87.75. Sheep and Lembs,-Sheop, native, 84.40
to $\$ 5.60$ yearlings, $\$ 5.50$ to $\$ 6.80$; mbm, nativo, $\$ 8.40$ to $\$ 8$.

## British Cattle Market.

 Quotations were 184c. to 140. per 1b.
## Gossip. <br> BIRMTNGHAM FAT-sTook show.

 At the stary-ath annual fat-itock show Birmingham, England, the alrat wook ntmal wae the Duke of Portland's pure bred Aberdeen-Angus heilfor, Beauty of Welbeck, whose weight at two yoars and fine months was 15 cwt .8 qra. 18 lbo . She also took all of the three 100 suineeschallenge cups, the reserve being C . F. Raphael crose-breich champion, sirred by
Shenley, the Norwich chand bund out of an Aber
Shorthorn
deen-Angus cow. The heavieit beact is

 three years and selven months old.
The Cooper challenge cup for the beat pen of sheep, went to W. W. Cazalot' arbt-prize pen o \& Southdown lat wethers,
not over twenty - three monthe old, the reeerve being Donald Nicholl's alrut-
pen of Hamshire
fit wether limbe The plg, champlonship went to a erone
bred pair, Middle White and Berkechiro.

Questions and Answers.
Miscellaneous.
A Trespassing Bull. A has a pasture adjoining B. In B'o
pasture he allowed \& twoyear-ole bull
 bred to him, and 'sy in calf. A eent
word by a neighbor for $B$ to keop hit word by a neighbor for B to koop hiter
animal at home. In a feow weka aterr
he crossee the fence again, and another co croses the lence again, and another
cow gets in calf. A has sent word to
B to come and settle for damageo-which he never pald any need to.

1. Can $A$ collect damagee
2. What steps must ho take to do no?
Ontario.
Ant Ontario. It is probable that he cean.
Ans.-1. It
3. He 2. He should place the matter in the
hends of a oolieititor, with instructlons to
Write o for payment of the damagewrite B for payment of the damage-
stating amount of eame-and to follow
the letter up, th necessary, by sult in the
Division Court.

dighmber 18, 1913


King Ludwig IIII., of Bavaria,
Who was recently made king.
Just then the conductur pulled out a couple of shields from his pocket an
clapped them on the hat-pin points. "Gir"s mir ven you out go," he said. The American lady looked puzzled. "He says," said the Englishwoman, give them back to him when you leave
the car, but you better give him ten ptennigs and keep them, for you will
have the same experience in the next have the same experience in the next
street-car you ride in.". stree-car you hae is also enforced in the
The hat-pin rule in
art galleries. The guard at the door casts a careful eye on your hat as you
enter, and if there are any visible points, he gives you corks to stick on them. It does look very. funny to see gorgeouslyattired women sailing around the rooms
with cork-trimmed hats, but it certainly saves the valuable art treasures from
lots of scratches. lots of scratches.
The Germans are a very practical peoThe Germans are a very practical peo-
ple, and have a great many senibile lawi
that other countries might well copy. that other countries might well copy.
Their cities are the cleanest, most beau-
tiful, and best governed in the world. tiful, and best governed in the world.
The laws and regulations seemed to be
In m sure that if treated with respect. $\mathbf{r}^{\prime}$ m sure that
there was a law in America abour keepthere was a law in America abouk
ing of the grass in the city park, no
and ing ofl the grass in the city parks,
one would ever dream of paying any attention to it. But in Germany it in in
difierent. I sometimes wonder what the diflerent. I sometimes wonder what the
Germans would do it it was "verboten"
(forbiden) to get fat. Would there be Germans would get fat. Would there be be-
(forbidden) to getution or would they calmy sub-
a revolution, or a revolution, or would they calmily sub-
mit and become a nation of slabs instend
In the making of their mit and become a nation or slabs on their
of pillows in the making of the
laws, there is one thing they seem to


Prince Luitpold, of Bavaria, The King's grandson.

Farming for Women in Canada. Ladame President and Ladies of the Those of you who attended the moetings of the Council in Montreal. lat spring, probably heard the discuspion on
agriculture, for women, conducted by Mre. agriculture, for women, conducted by mro,
L. A. Hamilton, and a short paper on the subject, which I wrote at the ingtigation of Mra. Boomer,
There have been many argumente for
and against women taking up farming, There have been many arg farming,
and against women taking up tome
but when we consider that half the popubut when we consider that half the popu-
lation of our country is agricultural, pad Iation of our country is agriculural, and
that there ere 886 women to every
1,000 men, that the total value of farm products of all kinds consumed and oxported
brings a greater revenue than any of the brings a greater revenue than any of the
other important natiral resources, vize,
fisheries, forests, fisheries, forests, and mines, it is surely time to wake up and think what larming,
in this country will mean in a few yoars. and what part our wimen will take in
its advancement.
A committee was appointed by the
Dominion Government a few yearn ago Dominion Government a few yearn ago
to inquire into the causes of the fallures to make farming a success in a country
where so much was in its favor. The Where so much was was not owing to
report was, that it was
elimatic conditions or any other ceuse. climatic conditions or any other caues
but to the hap-hazard and faulty meth but to the hap-hazard and faulty meth
ods used. Since that time agricultura
colleges. and experimental tarme have
been established, and they have dom


This sign is conspicuously $\begin{gathered}\text { placed in } \\ \text { It means }\end{gathered}$ overy street-car in Munich. In atreet-cars is strictly forbiden by
law, and that the conductor has the ight to put any person off the car who tefuses to comply with the regulations. Ignorance of this rule sometimes leads kovery embarrassing situations as and other day getting her first lesson in German hat-pin law. She was a pale-face American, with huge diamond ear
and expensive, up-to-date clothes. Her Pashionably small hat was skewered on with ridiculously-long hat-pins, the ph to blini a person for life if one happened next her noticed them at once, growled out something in German. She took no notice of him. and more
Ho growled again, louder, and ferociously.
She moved away from him a couple of She moved away from him a couple
Inches and gazed persistently in the opposite direction. the conductor, The man complained ais) the clanted himWho hurried up the aisls, pland reeled off
gelt in front of tht lady, and reing fre-- Yard or two of German, pointing frequently to her hat,
She flushed scariet, and said, nervous-
"t The passengers begna siting opposite, An Esglishwoman sitting opposite,
Leaied over and said: "He says you
 defiant.
"It's against the law to wear them in cars unless the points are covered. "MOST " "Oh !" gasped the


The Feldherrenhalle, Munich
proveme
women． Nomen． ．aspecially among the
Our ambition is to eduta 20．aertain extent in agriculture，and
 are anxious to take up farming ae a
profession belore they try it in a hap－
hazard way and lose all their money and hazard way and lose all their money an
 induced to take it up．
One of the great drawbacks to success
is that as the Canadian law stands to－ is that as the Canadian law stands to
diay，no unmarried woman may receive
homentead granit from the Government． but any man who applies is provide
with one hundred and sixty acres．wit with one hundred and sixty acres，wit
the priviloge of obtaining more at
meroly nominal price．In an eflort change this state of aflairs，a monst
petition of over $11,000 \mathrm{men}$ voters petition of over 11,000 men voters
Inanitoba was sent to the Minister the Interior，but we are now told
this petition was received and filed． is on this account that the tide of imm
gration of women is directed to Aus gration of women is directed to Au
tralie instead of Canada．wo wan
women of education and some money come to this country with a will to
work．
Before closing，I must tell you what Mrs．Hamilton has been doing this sum－ mer－on heir large farm，Hear as well
Park，Toronto．Eitherto they，as
as others，have found it very difficult to as others，have found it very difficult to
obtain berry pickers during the berry
ond season．Mrs．Hamilton put her wits to
gether to solve the question．She con－ ceived the idea of making a comfortable
woman＇s hostel out of one of their farm buildings and managing it herself．She
then sent word to the large department then sent word to the large department
etores and offces that any young women desiring a holiday and outing，and who
were willing to pay $\$ 3$ a week for board and pick berries，would be paid so much
a quart for the picking．It worked like a quart for the picking．It worked like bad the satisfaction of having her berries
picked，and of making her scheme pay， ut gave a cheap and healthful holiday FARMING FOR WOMEN IN CANADA． ［Copy of Mise Carling＇s paper，read
nd heartily endorsed at the annual meoting of the National Council of
Womeng，held in Montreal in 1913．1
The London Times and the New York The London Times and the New York
Herald have lately been atrongly advo－ cating，＂Farming for Women in the The time has come in Canade Then the than it has in former years．Thousand
women are coming into our country with some money to invest and the wil to work，and if farming can be made to pas，especially small farming，which is
so much healthier than fectory hife or
offce life，let us ask our Provincial Gov－ so much healthier than factory
offec life，let us ask our Provincial Gov
ernments to help，and our societies to ernments to help，and our societies
help to make this industry a success． finning，failures would probably be the result，and consequently discouragemen
to others who contemplated taking up to others who contemplated taking
the work．To obviate this，may
suggest ：
1．That the Provincial Governmer 1．That the Provincial Government
1．${ }^{\text {hould be asked to set aside a certain }}$ should be asked to set aside a certaral
portion of the land oo the Agricultural
College grounds and build thereon a College grounds and build thereon a
medium－sized farmhouse on each，planned
 potent teacher from one of the women＇s chosen for a superintendent，and the
number of pupils limited to half $a$ dozen at a teme，who in their turn，when they have graduated，coarming schools through－
tendents of small farme
out the Provinces．The object in having the farmhonses，instead of coneg dozen women could really make a farm
pay before encouragtng others to take it pay before encouraging others
up．The pupils would have the advan－ up．The pupis doiry work，the keeping
tage of studying daing
of poultry，bees，etc．，the study of mar－ of poultry，bees，ett．．the stuay ol mare，lectures iffe，practical lectures on the properties of food，and also hygiene lectures trained nurses or competent teachers
2．I should suggest that great car should be taken in the choice of superin
tendents，that they should not only be competent teachers，but gentlewomen by
nature and breeding．Their infueac nature and breeding．Their infueace
would be great among their pupils，who


The Late Miss Agnes Kingston，

## Whose pafer，entitled＂Home，＂appea

［Miss Kingston will be long remem－ bered for her often－quoted Canadian sentiment，which appeared in a magazine
sume years ago，and was re－published in the Year－book of the Women＇s Press Club
of Canada． Canada．
＂My love for Canada is bound up with
My reapect for the commandment，＂Hono ny ry respect for the commandment，＇Hono
thy father and thy mother．＇My fathe
and my mother hewed out． and my mother hewed out a home
themselves in Caiada；they are laid at rest here，and I pray，that my days may Home
［A paper written fore．the Women＇s Inati－
tute，by the late Misa Agnes Let me first call to mind the Scrip kure，＂Which of you，intending to build
tower，sitteth not down first and counterth，the cost，whether he have suffi－ cient to finish it；lest haply after he hath
laid the foundation and is not able to finish it，all that behold begin to mock him，saying，This man be
hind was not able to finish．
Building a home－How many failures often makes life a burden to all con－ cerred in that home；because our neigh－
bors may be well－to－do and can afford to bors may be well－to－do and can afford to
have all the luxuries of life is no reason that one should so far forget and get
one＇s self involved so that he may never retrieve himself．
Home Home is an institution of God Him－
sellf；it is His ideal of the life of human－ Ity；upon it，as base and models he
builds up nations．Ahome is not an
isot isolated fragment of life，it is an in－
tegral part of society．Every home has its influence for good or evil upon
humanity arge．Its sanctity，its
honor，its importance，is the care of our Creator． The foundation of a home，I think，is
sound moral principle．Let me say I do
not believe there are impregnably good principles that are not established on religion as a basis．The heart is so do－
ceitful，and temptations are so strong， that unless the soul is braced with re－ lighous principle，it is not secure of with－
atanding the onset of the world，the atanding the onset of the world，
flesh，and the devil．The true ideal flesh，and the devil．The true ideal
the home，then，is its inception in two
who are Christians，and who have
 $\stackrel{c}{\text { cost }}$
oneness of religious belief．True，there
are happy homes where they hold differ－
ent dogmas best that can but we are speaking of the together for
the founding of a model home，and wo forsding of a model home，and we
ay frst a oneness of religious principle．
 is $=$ etam
sands．
How important is every home ！What
tremendous responsibility a tremendous responsibility surrounds its
founding．How needful to count the Let us see that we live within our in－
come．We should be prepared，like the wise woman in Proverbs to to loolk well to to
the ways of our household．To look at the ways of our household．To look at
them understandingly，one should know
how everything should be done，even how everything should be done，even
though we may not have to do it our－ selves．If one relies on telling help to
do work，and does not know how to do
it one＇s self it one＇s self，it is likely to bo poorly
done．To be sure，there will be waste somewhere．．
Streams not rise higher than their
source，and first－rate housekeeping is
secured and secured only where there is a f first－rate
houseakeeper at the head of affairs，al－ housekeeper at tho personally perform
though she may not
any of the labor．A true ability for housekeeping－a mastery knowledge of
it－is one of the inest capitals a woman can bring into a marriage partnership
Some may sneer at housekeeping as be Some may sneer at housekeeping as be－
ing vulgar，common knowledge．House
keeping is not vulgar；it is a fine art． It grasps with one hand beauty，with
the other utility；it has its harmoniies
like music，and its order like the sters like music，ard its order like the stars
in their courses．I do not mean the
good housekeeping which exhibits itself
in occasional entertainments or a hand－ in occasional entertainments or a hand－
some parlor，but the good housekeeping
which extends from attic to cellar，and through every hour in the year．House－
keeping embraces a very large part of keeping embraces a very large pall foel
our home duties，and we should all foll
that nothing is too good and beautite that nothing is too good and beautitul
to be laid on the altar of home．It is to be laid on the altar of home．It is
not essential to be a learned scholar to
be a good housekeeper，but wherever a be a good housekeeper，but wherever a
woman is a sound scholar，she eught to Reaching towards perfection in any one thing should lift us higher in all thing．
It should beget a habit of application It should beget a habit of application
and thoroughness．
Some scour at aci－ ence in housekeeping，but lot me tell you，
gcientific knowledge is required，and wo often use science imitatively，not know－
ing that science is concerned．This ro－ minds me of a story of Nora，an Irish
girl．
The mistress
gaid，＂Nora salad is not crisp；it seems withed；did
you have it in water $?$＂＂Faith，it was floatin＇in the pan better nor halh，an hour，
be that token some lies there yet，＂said be that token some lies there yet．＂said
Nora．The lady looked，and it was
there，but in picking the leaves from the Nors．but in piclcing the loeves from the
there，
stem，she had laid them all face down． She then said，＂Nora，you must cover
the leaves with water，or put them bot－ then－side down．＂＂And why wem I Iot do
that ？＂said Nora．＂Becelle that ？＂said Nora．＂Because they have
no moutns on the upper surface to drink the moutns on the upper surface to drink
water，＂she was told．＂II you say
so，I＇ll put them so，＂said Nora，＂but it＇＂ so，r＇ll put them so．＂said Nora，＂but it＇s
not meself iver saw a mouth in a salad leaf，here nor ould Ireland，where every－
thing is made right．＂So that we see that botanical knowledge does not come
amiss in the kitchen．Cultivate intelli－ amiss in the kitchen．Cultivate intelli－
gence in the home．Culture of beauty is of immense value in a a home．The
beauty may be extremely simple and in beauty may be extremely simple and in－
expensive．A family who are house－ expensive．A family who are house－
keepers are an inexpensive family，
sons
and daughters do not waste their money and daughters do not waste their money
at home．They are tempted into rash at home．They are tempted into rash
outlays when in the company of strang outlays when in the company of atrang－
ers，hanging about public places，and
en striving to vie with those who have
either no need of saving，or honeat de－ sire to do so．We hear so much com－
plaint that farmers＇sons and daughters $\begin{array}{ll}\begin{array}{l}\text { do not want to } \\ \text {＂hate the farm．＂．}\end{array} & \begin{array}{l}\text { stay at home．They } \\ \text { The girls would rather }\end{array}\end{array}$ ＂hate the farm．＂ore siris would rather at home helping their mothers making
butter，bread，etc．，and the sons want to try their fortunes in the city．The
parents and themselvea，when their ehil parents and themselvea，when their ehil－
dren are old enough to be efficient help，
left to hired help．who hat left to hired help，who have little care
to aid them in making and saving，who are no company indoors，and，meanwhile
the parental heart is burdened with and anxieties for the absent ones，and
possibly the parental purse is burdene possibly the parental purse is burdened
with their business fatlures．Wo shall
have constantly recurring＂．
crashes，and hard times，＂until people
learn that the tilling of the soil is the true source of wealth；that golden corn above the ground is really of more value
to the country than the gold in the to the country than the gold in the
earth．When instead of our rural popula－
tion crowding to the cities in a mad zeal for speculation and hasty fortunes，when
overy acre of land is made to produce to every acre of land is made to produce to
its fullest capacity，then we shall be a solidly wealthy people，thon great finan－
cial convulsions and crises will be un－ known．If the population which is now
If known．If the population which is now
swarming in the cities and town in poverty and idleness would pour out into
the country，fllting it so that land must the country，illing it so that land munt
be worked，then we would find a reign of plenty，and all our present beggar
might be on horseback；at least while might be on horseback；at least while
they were tilling their fields and driving they were tilling their fields and driving
their market－wagons．Instead of the
rush to the country，the rush io away rush to the country，the rush is away
from it．It may bo that one reason of
ithen wing to the neglect of making the farm and farm home attractive．What a atay a a child in all his life，the memory of
home beautiful，upright，and loving 1 And by beautiful，I do not mean tho weauty which is created by money in
velvet carpets，
rosewood furniture，Ane ornaments，and pictures．Those are all
very well when they fall to our lot，but the beauty which I mean can be created
anywhere，and out of almost anything by simple，good taste．What an an－ horage for good faith and virtue is tho

## The New Public Health．

＂The Farmer＇s Advocate＂Bureau of

Qumstions，ANswers，AND COM MENTS．
Oondur the In Hoolth．－（The Public Health Faculb of Weatera University．London，
Guestione mhould bo addraseed：＂Now Puble Health，care of＂The Farmer＂
Advocato＂Londan，Ont．＂．Private quoe－
tlons，accompanted by a atampod， thons，accompanted by a stamped，ialr
addroeesed mvelope，will receive privato answers．Modical treatment or diagmosio

Living out of Doors and Sleeping out of Doors．
There is no doubt that the average
physical development and enjoyment of physical life tends to be greater in the
outdoor worker than in the indoor
 morker．He whose muscular develop－who eats well and sleeps soundly，certainly gets more satisfaction
from his body，is more efficient in hio Arom his body，is more effcient in his
work，and lives longer and better，other things being equal，than the man with flabby muscles，poor appetite，and a short，light，restless sleep．True，the
ideal body is that of which the owner is unconscious，the body that does what ing waike an without groaning or complaln－
Int
Therefore most people who have high physical do－
velopment，who eat well and sleep well， ho are，in brief，＂unconscious of their bodies，＂do not appreciate their bless－
ings at all on account of that very＂un－ consciousness．＂These are the bodily conditions of the outdoor man，but very
often the outdoor man is dissatisficed with his work and wants to go indoor because he can make more money or see
more people or dress more delicately，or more people or dress more delicately，of
in some way＂enjoy life＂from＂ psychical standpoint more than he does in his outdoor work．The result is that he sacrifices the unrecognized physical
advantages he has out of doors for tho alleged psychical advantages or enjoy ments of the indoor life．One of the large scale is the drift from the rural districts to the cities．True，the time was once when the mental life of the
rural districts was almost blank，when the farmer，although of necessity，a Aret－
class animal physically class animal physically an compared with
the city man，yet had nothing to exer－ the city man，yet had nothing to exer－
cise or occupy his mind outside of his daily work as the city man had．
dedmaber 18; 1913
pettion in the city, the press of busiof the mere holding together of the






 and interesta are confined to that The modern farmer has not only real tings to deal with, physical probiems tems, economic problems, engineering problems, but he aloo deals, and will deal -not the mere strugsle for exisistence, but the larger problems, bringing him in touch with the whole world. His fifld is far more ands more, is better posted, and can try out in practice and have frrst-hand faSiliarity with many things that to the
dity man must always be second - hand
mand tories, "half heard, and very bady
olde". To sacritece the physical developmert." "happy body,", and ong lite of tho
tarmer, nowadays, tor a "city job,"
in
 toloppent to be gained in the city, is no Tonere a wise bargain. Too otten both
ohyical and mental advantages are loot physical and mental advantages aro loat
altogether. It is true, however, that the modern
aramer on his own tarm, does not got all the enjoyment and physical happineas
The
Tight out of
his occupation ho might out of his. occupation. The
city wweller, cooped up during the day,
den
 out ot doors at night; but often it in
very awkward to do this in the city,
 tranaients of any kind. The farme
pecesarily staess in one place long enough to establish his own ways of living; ho to vory little subject to the necasitio
ot his neighbors, nor is he held down $b$ b Lack of faciiitiese or room : and it would Dob a matter adding vory mucy to hio
physical dovelopment and
eniopment ilitit it ho arranged things so moal to tuop
 apart innes.
of
int
The only absolute requirements in summor are reasonable privacy and protecthere is added the noed for warmth. The most practical out-ot-coor sleoping - place or the healthy peraon, ummer or minoom which can be used for dresesing, unressing, etc. Nothing need be in the porch but the bed itself; and the porch arious insect visistors, should be open $t$ three sides and the top: a stout awnwered equired. The trameworlk of the porch should havo wind shields of canvas or which may be pulled up partially in wing and er weather, or even raised fulty oc
 noises in the canvas or sreeting, speter a
and bellying in the breeze, matepo or an risid oroor and windows, instead of an
awng and cloth sereens.
For general
and antecy, privacy, and convenience, the
porch should be walled in two or three teet from the foor, with a permanen
wall or wainscoting of wood, although wall or wainscoting or tis purpose also canvar may beas it likely to be mor
While stout canvas is lasting, a sleeping porch not sy cert the wear and idren may be very satistac
people or children
 ing at five to ten cents a yard, instear
of canvas, but, of course, this sis mor ot canvas, but, of course torn than can-
tragile and more readily tort more care, vas, and must put up with more cares
and treated more tenderly at all times Sheeting ta not stont enough for an over head rainproot root, and on very storm throush even vertical ccreens of this ma-
 bot be a makeahith or a "roumhing-1
cot, but sumething just as good ha would
be used by the same aleeper it sleeping night-cap is generally necessary : and the attend to waleeful children or tor any

 winter use, the matreas itselis should be ind-out-ot-doors programme," that the again atter it has cooled down to that






Joan of Arc " of Mexican Rebels.
 engagement to drag rebels that had been wounded away from the Aring line. She



Acquitted of the Kitual muruer he kepines to Congratuat "Holy City"
 of Kiev, Russia, at his deas in his houm him from sympathizers in all quarters of

 out, wearing droes insing gown and warm
olippers, jumping into bed as aoon ao it



 care of night-risings, and of the return
to a warm room next morning to do dres. to a warm roon next morning to dreses.
The hird plan includes some or or of
hed bed-warmer, alectric (often quito foasiblo
in the modern farm), or soapatone, or even a charcoal foot-warmer such as is
used on long drives in winter.
the bedwarmer takee care of the bed-warmth,
but it does not solve the diffcultiee of


 Combinations or these precautione may
be made to ayit, but the simpler they are the bettor.

 alepper than tot the indoor one.
The effect of sileping out ot doort apper from the physical ploasare, tho
sound
sleep, the good appotion to hard to explain, for wo do not know juer how
to benaite the body. In summer, it io truet the erief problems of ventilition
heat, and humdidy and circultition of

 too rather more than is generally conmit that wo don't know juat why it to
good, and leave of at one of the thinge Nut know worke, although wo do not noo
jut how. The howne of the future, if preant tor-:
dencies in building are carried out an dencien forsee, wills aupply large, comportcollor alepping porchesit drosing-roome intonsed for that purpose, and not au poch It is only "in the moantime" that the morer or lion makeanift mothode guggoth
ed abover, muat be used.
H.

Announcements. The Arto Department of Weetora Vhl-
Nraity has thrown open to the publio course of 25 loctures on on publit pubulth,


 Clubs, societien, sesociatlone,
nvited to., to tore
torm regular clasees from thoir
 public-heaith subjects, and number of loo such courses wilt be held at the Instituto
Public Heaith ${ }^{2}$ Prublic Health. Free gingle addresses on public - heolth abjects may be arrangod for by any
club, oociety, etc., in Ontario, with the $\underset{\substack{\text { director. } \\ \text { Subjects : }}}{ }$ School Hygiene, Files, Sem-

 Housing, Infant Miseore, vactileation, Food Pormoning, patent and octurn Druge, Han-
diling or Epidemics, Rural Hygiene, ote.

## The Windrow.

The three eone of President Yuan sht
Sai, of China, arn in Germany rocorling miltrary educauion. - dozen in Now
$\underset{\substack{\text { Egge } \\ \text { York. }}}{\text { are }} 75$ cento a dozen in Now


Sntitled, "Pop Corn for the Home."




 moal
The scholarship awards at Stanford University, Cal., admanistor a a silent re
buke to Ammerican men students. Soven
 Society, and only one man, a Japanese
'Fortunately," remarks the Inoepen "Fortunately," remarks the Inoepen-
dent, "'the men still retain a safe superiority in foothall, and women shoul,
not be allowed to invade that field." Maxim Gorky. the great Russtan nov-
elist, is expecting early death, sayy Lit
erary Digest, and in his home on the arary Digest, and in his home on the Island of Capri is "foverishly working
to finish his stint before the reape
takes him."

| There are three |
| :--- |
| United States, all $\begin{array}{c}\text { clergymen in the } \\ \text { Congregationaliats, }\end{array}$ | who have during the year held the position of Mayor of citiear held the are wos J. Hindley, Mayor of Spokane, Wash.

Geo. R. Lunn, of Schenectady, N. Y, Hens are able to malko at least 2 different notes or cries, all of which
convey distinct meanings. say Messrs
Enter convey distinct meanings, seay Mesers
Edward Carpenter and George Merrill who have been investigating, in The
Humaritarian. It is easy to see, now how they can organize a general strika ........ For some time pellagra, the deadly
"hookworm" disease, has been believed to be started by a fungus on lndian
corn. Recent research, however, has shown that it is transmitted from individual to individual by a fly, the
"simulium."
During the past few years pellagra has been gaining ground rapidin the south having to its credit mor doaths than tuherculosis. Cases have

A movement meeting with general ta
tor is under weigh in Great Brital with the object of creating a department of fine arts, with a Cabinet Minister
at it head, in the Government. The at its head, in the Government. The
object will be to guide, conserve and
promote the artistic interests of the A Christmas Present or New Year's Gift Boys and girls. here is a chance to
get a Chrietmas box or New Year's girt Por your mother-ne that she will be
delighted with. Send us the names of delighted with. Send us the names of
two nyw subscribers (at $\$ 1.50$ each for one yoar) and we will send you a pretty
pink-fowered China tea-set, 21 piecos.




## Hope's Quiet Hour.

Provoke One Another Let us consider one another to provoke
unto love and to good works. Heb. $x$ ${ }^{24}{ }^{1}$ know the forwardness of your mind

 Permapa sou thought the otite ot this dermonotity very surprising; and yet then wo speak of theing proverobeded buan any. one, wo mean that our temper has loes
 morks. The zeal ot the christians
Corint, and their readineses to sead hell


In the $V$. tho roading it more mod
 donian Christians. me many of the Mace-
 "A Country Woman". Not very long ago,
a donation for some of my poor friends. Not knowing
her name, I had to thank her through her name, I had to thank her through
"The Farmer's Advocate," and her zeal has certainly provoked very many.
Within the last week alone I received $\underset{\substack{\text { s.tom } \\ \text { rrom }}}{\substack{\text { tren }}}$ hare and wo aro tolo od tho wituere and


Flowers in Howard Jamieson's Prize Garden.
anyone can be reasonably healthy or mas cheer for some of Christ's brethren. moral. And yet-think of the people you know. whe
Don't you know
who are enjoying herever yo
a
areat
great who are living honorable lives? How many in your neighborhood are hopoless invalids or moral lepers?
 any am sure their zeal will provoke many of our readers to bring Christmas
sunshine into darkened homes in their sunshine into darkened homes in their
own neighborhood. own neighborhood.
The Good Samaritan thought he was
only helping one poor, wounded traveller but he has helped millions. No one can


A Fine Lot of Vegetables from Howard Jamieson's Garden.
If evil is so infectious, how does this tell how far kindness will reach. Cap-
happen? Simply because good is far tain Scott, dying of cold and staryation happen Simply because good is far tain Scott, dying of cold and starvatio
more infectious. The zeal in good works far from civilization, wrote: "After all
we are setting and and $\begin{array}{ll}\text { of one person provokes very many. } \\ \text { When our terrible lake disaster brought } & \text { we are setting a good example to our } \\ \text { countrymen, if }\end{array}$
 Boked unto love and good works," people we are here. We could have we
ver
in thousands of homes in this country and through had we neglected the sick." in thousands of homes in this country and through had we neglected the sick.,


Howard Jamieson's Prize Garden Showing Arch
age caught fire when the reliep fund was neglected the sick!" Satan dared started, and rich and poor were eager to hurl in the face of the Most High
help. It is always the way. When peo- great lie, when he said: "All that ple hear of trouble-and they hear very man hath will he give for his life." swittly in these days of electricity-they But the lie might have been a thuth
sometimes listen helplessly at first. But example were not so infectious. A man let one person start to
and his zeal will provoke very many.
and
inspired by the beauty of unselfish foil nuiness. He could not be false taith his
deals-the ideals which he caught from other heroic lives. Simply, and as matter of course, he wrote in his diary-
a great legacy to the world-"I take this opportunity of saying that wo have stucle
to our companions to the last. In the to our companions to the last. In the case of Edgar Evans, when absolutely out of
food and he lay insensible, the safety of the remainder seemed to demand hil abandonnent, but Providence mercifully He died a natural death, and we did not leave him till two hours after his death. I say that good is more infectious than
evil. Such a record must make millione of people try hard to be brave, patient and faithful, in a time of severe testing. but if one of the party had proved himinjured few but himsell-oven if the world had ever heard of it, which is not likelly.
When someone committed suicide by When someone committed suicide by ago, the example was followed by another miserable being or two; but it cer-
tainly did not "provoke very many." We walk unharmed in the midst of milWe walk unharmed in the midst of milin pure air-and the crinese that are com-
mitted from time to time, in our midet mitted from time to time, in our midst,
do not provoke many people to become criminals-though it is better for our
souls
health to live in a respectable souls'
nealth to live in a respectable ately read poisonous literature, and choose degraded people for our boon
companions, we must expect to beson companions, we must expect to besome
infected, and a menace to others. Dis-
ease ease of any kind is abnormal and un-
natural, but even the healthiest people are not proof against infection-though body, makes a strong fight for health, and that light is able to conquer darkA young man in college once "deco A young man in college once "decorat-
ed" the walls of his room with pictures ed the walls of his room with picturea
that were the reverse of elevating. His mother came to visit him, looked round
the room, but made no comment on his the room, out made no comment on his marked: "George, I see you are fond of pictures. If I send you one from
home will you hang it up? ? He promised to do so, and in a few
days Hofinan's head of the Boy Jesus days Hoffinan's head of the Boy Jesus
arrived. It was hung up in almost the arrived. It was hung up in almost the
only vacant place, surrounded by trash. George looked at the pure face and could
not endure the other pictures beside it, not endure the other pictures beside it,
so they were all swept off the wall until so they were all swept off the wall until
the Boy-Christ hung alone. Then ho bought a simple landscape and placed it
on the opposite wall. A few nights later, when some of his A rew nights later, when some of his
triends were in his study, one of them
said. Hello, George । Where are your ictures ?" He answered quietly, "I . took them
down. When I hung that picture it ong with it." Ihrist is ralways so. When the vision of holiness, by any soul, all the beauty earthly ambitions slip away ashamed. The Great Example has provoked men nd women to love and to good works
ver since the first great Christmas Day, ver since the first great Christmas Day,
and the inspiration is more far-reaching every year.
About 35 years ago the "Christian
and Police Association,"-which has branches
Australia, India and Japan, as well in Australia, India and Japan, as well ts beginning:
Miss Katharine Gurney was returning rom charch one Sunday morning, when
he idea struck her that she was doing the idea struck her that she was doing
very little personally to advance Chriar tianity-though she gave generously to
various charities-and she determined various charities-and she determined
that she would waste no further time,
but would begin upon the first person she met.
This person was a policeman, and she
and nervously began to talk to the startled
official. an association which has done widespread
good among policemen in England and good among policemen in England and
elsewhere. Miss Gurney is still at its etsewhere. Mer zeal harney is strovoked many to Can you do anything to help those around you? A lad once had five little peoplo needed tood. What were they among so many? In his hands they
wore as nothing; but he gave them to

Coriat to use, then they were enough than the homegrown seed. When they table seeds in a hotbed, and he gave me gathering pollen. The poppies have -

 - Ah, the past is dark behind us, but beoor ; us gleams the vision Of the coming brotherhood
Soee the e hrisistilike host advancing Soot the christike host advancing,
High and lowly, great and small. Linked in bonds of common aervice. dora farncomb.
BOOKS FOR CHRISTMAS By Dora Farncomb.
"The Vision of His Face,"
50c., 75c., and $\$ 1$.
"Star-Led to the Heights," 25 . and ${ }^{85}$ Just published; a new book, by Dora Farneomb:
".in the garden with him Cloth, with gilt lettering, 75 cents; postgge, 5 cents.

## TheBeaverCircle

[For all pupils from Senior Third Dear Beavers,-To-day we are pleased Io give you a chance to read the two
Irst-prize essays in the Beavers' Garden Irst-prize essays in the Beavers' Garden
Competition. We are sure you will be Competition. We are sure you will be
delitghted with Dorothy Newton's descripligh of her garden. She used her eyes unat notice how close her observation of
the bees in her garden was !-and she cortainly knows how to wast- and she
how inter-
Howard Jamieson came ating letter. Howard Jamieson came
Head somewhat on methods; his letter ahead somewhat on methods; his letter
ea good, practical "boy's" letter.. . . . sided to give a first prize, $\$ 5.00$, to eac
of these two very energetic Beavers. of these two very energetic Beavers.
Dorothy sent two pi.loto, both beauti-
fully clear; Howard sent four, not so fully clear, Howard sont, four, not so
good, but indicating firiry well the dif lerent parts of his garden.
Next time, some more of the garde Next time, some more
lotters will be published.

A First Prize Letter. Dear Puck,-As soon as the sun's warm
raya started to melt the snow, and the trees began to bud, I went in, search of
boxes to plant my seads in. Most of boxes to plant my seeds in. Most of
the boxes I used were about four inches the b.
deep. It was April 8th when I planted my
arat package of seeds. Arst package of seeds. The ground was
then frozen, and I was not able to get then frozen, and I was not earth outside, but papa had some any earth outside the cellar, so I took
eome of that. in in tore open the package some of that. I tore open the package,
of zinnias, and found a lot of large, tlat,
brown seeds, somewhat resembling a hegrar's Bur Tick. They looked so dry nd flat that it hardly seefmed as if they
could produce a plant. I sitted the ould produce a plant. umps or sticks of any $\begin{aligned} & \text { kind. } \\ & \text { It does } \\ & \text { lot take long. to sift } \\ & \text { it, and is more }\end{aligned}$
ant not take long. to sift it, and is more
thorough than just breaking the lumps with the fingers. I put the box under the stove where it
would be warm and dark. The earth was kept quite inoist, so it was only lour days till the it itle plants came up,
their two leaves joined together by the Cheir two leaves joined together by the
ehell of the seed. When the shell burst, hhell of the seed. When the shell surst,
the two leaves spread apart, and two are leaves appeared.
I sowed larkspur last of all. It has I sowed larkspur last of all.
a rather curious seed. They are black,
and do not seem to nave any uniform chape. Loking at them through
magnifying glass, I was surprised to se magnifying glass, 1 was surprised
how pretty they were. They have a shiny surface covered with tiny ridges, a little bit like the veins or a carrot-
lean. Larkspur leaves resemble a col
top. lear. Larkspur leaver the stem of the
top, and droop over
plant so prettily that they look almost plant so prettily that they as after.
as pretty before they bloom
L anst fall I picked quite a lot of pans sed off my own plants. I kept the
seeds all winter in esmall glass bottle Besides the pansy seed of French pausies
bought a package or bought a package of French panion
The seed ${ }^{\text {of }}$ these was slightly larger
larger. A week after I planted the zinnias
(April 15th) I
I planted the stocks and phprix. TTe I planted the stocks and
with a little edging of had fat seeds,
white around the with a little edging of white around the
outside. The Virginian stoccks seed
were entirely different were entirely differgnt. They were red-
wh in color, narrow, and fairly small hlox Drummondi have grey seeds, which ook as though they had been picked all
over by a pln, tor they have a very
rough surface. Phlox and stocks are


Dorothy Newton's Prize Garden Early in Summer
slower growers than zinnias, but they the cutworm, $\mathrm{My}^{\text {s }}$ sweet peas grew up,
showed $\mathrm{h} / \mathrm{w}$ quickly the spring weather the second time, from the same root, showed h/w quickly the spring weather the second thme, trom the same roo
 I put all the boxes in the windows, This summer we were greagots.
and oant day watered them with great by cutworms and root -magots.
When they were left in the win- cutworm is a gray grub, about an care., When thay were heft in the win- cut
dow for heveral days without turning the carew for foveral days without turning the lon
oox, theif stalk would always bend over
ba
ofl
owards the light.
Meanwhile the snow had all disap. put towards the light.
Meanwhy the hand all disap-
paered., and my last hummer's pansies
began to look green oneo more. As soon ong.
bages
of abo
put a
bran
that as the ground was ready, my brother maggots are small and whitioh. Wo . We
would notice the cabbage leaves droop-


Dorothy Newton's Prize Garden in Autumn.
was favored with splendid weather ing, and when we pulled them up there Ior was favored with splained a great would be large numbers of theso mag-
 and I didn't have to pour water in the soms. When they aere in bloom they
holes I made to est the plants in. You some mornholes 1 made deep we made the holzs. I were certainly very showy. One morn-
asked how cannot answer that question very well. ing 1 went out to my sond the poppies,
It all depends on the size of the plant. a great many bees around It all depends on the size of the plat and none around any of the other fow-
You simply make it dep enough so that and You simply make mety covers the root, and ers, I thought it rather queer that the
the earth completely wide enough to prevent the roottets bo
ing crushed together.
any mo re than from the other flowing crushed together.
My father planted a great many vege
cathering pollen. The poppies have
geat many stamens, and, of coures,
large amount of pollen. I noticed that large amount of pollen. I noticed that
the bees had a cream-colored bali oon
each of their hind legs. I each of their hind legs. I was puzzled
at frrst when I saw these, for I couldn't at irst when I saw these, for I coulan
remember seefng them before. Some of remember seeing them before. Some an
the balls were larger than others, and when a bee with nu balls on its legs
came fiying into the garden, I was sure came flying into the garden, I was sure
that they didn't naturally have them Then I suddenly thought of a piece I had
read a year ago, about how bees madoread a year ago, about how bees made
beebread out of pollen, and carried the boe-bread out of polien, and carried the
pollen on their hind logs. Were these. poalls of pollen I watched them more
closely to try and find out. I saw one closely to try and find out. I saw ont
bee catch on with its two front logs ( bee has six legs) to a poppy seed-case,
and with its second pair brush itseir and with its second pair brush itself would seemingly rub the pollen of its
legs onto these balls.
Before it brushed legs onto these balls. Before it brushed
itself it had gone into the flowers and got covered with pollen. It is lovely to
watch the busy insects!
"Their ploens. ant humming falls on our earis as one or those soothing sounds in Nature, , wage of - wind among the trees, or the muite
"Hidden brook
In the leary month of June,
-atered all the beds of flowers every I watered all the beds of fowers every
night till they were quite large. II ight till they wore quite large. / M
ook a great deal of water to water averything, and as I had to carry it from
a well, it used to take quite a
 fast, and my fowers wore not large.
onough then to choke any of the weode.
I had a lot of puralane in the fall. Th. yellow fow ors and shiny leaves thamed.
 woed, but they were not very trouble-
some. One day when I was wooding my some. One day when I was wooding my
atocks something moved under my hand.
I looked to nee what it was, and found I looked to nee what it was, and found after that I would And him sitting in the
name bed in the shade. He atayed my garden for a long time, and 1 wato
glad to have him to oat inseeta. glad to have him to eat inseota, I did not I had a fewn inwe and they grow
give any attention to,
only about half as large as those in tho
 That showed that we cannot have good
dowers or vegetablea without taking carre. of them.
Where growa? Where grows it not? if wo ought to blame the culture, not the Well, Puck, I have written you a vers
long letter, but if you had been as incorested in a garden as I was thls sumabout, too. wishes to the Circle, your
With best wis little gardener; dorothy newton. (Age 12, Model III.) Cloverdale Farm, Plaisence, Que.
I had a garden once, Dorothy, so know I had a garden once, Dorothy, so know.
just how interested you can become. just how interested you can Warner'g
Some dny, read Charles Dudley What he her hen
 ays about purslane or "pusley," will
muse you very much after your experiamuse
ANOTHER FIRST-PRIZE LETTER. I had been planning during the winter
how I would have my garden in the spring. so atter writing down my plas nd buying my seeds, the arst thing 1
and 1 id was to make a hotbed. Firat I made a frame three feet by five feet; then I put in a foot of manure and coverod
that with five inches of the richest soll hat with five Inches of the richest soil
could get. Atter leaving it a fow days so the soil wound got thoroughly
warm, I sowed my geeds. In one halt warm, I sowed my seeds. In one halr
I sowed vegetable seeds, and in the other hals I sowed flower seeds in shallow onxes; this made the plants easy to
tranoplant The fowers I planted in the hotbed were pinks, stocks, petunias, phlox. eowed lettuce, radishes, tomatoes, celery, and watermelons. Watermelon seeds ar: half an inch long, and black in color. 1
planted them in egg-shells set in dirt;
this made it so I could trangol wis made it so I could transplant them
without disturbing the roots. Everything grew well, and it was very inter-
esting to see the little green leaves esting to see the little green leaves
growing under the glase when everything
outside was atill asleep. outside was still asleep.
My garden was soven yards by fifty
yards, which was none too large for the yards, which was none too large for the
quantity of seds I planted. The ground
had been plowed in the fall, and in the quanhity or seeds I pantod. The ground
had been plowed in the fall, and in the
winter I fertilized it with well - rotted winter I fertilized it with well - rotted fat
manure and ashes, this helped to loosen co
the clay loam oo my garde.. After this
was harrowed in the epring, it was wo Was harrowed in the spring, it was
plowed into seven drills running length-
wise. After the drills were well raked
and the dirt maede fine, I staked off fifwise. After the drills were well raked
and the dirt made fine, 1 sakedo ofl fif-
teen yards at one end for my flowers,
then taking out then taking out my note-book I mad
the paths as I had planned.

 four feet apart away from the poles, and
as they came up I had strings running to the polese from each plani. This made a fine gateway to my garden. The vines
grew very fast, and had reached the top grew very fast, and had reached the top tillivate showed you the use of constan
of the poles early it not? Some day when you



 E













 phaces in the oeds.



 with the hoo, and what I could not hoo

 When yon water mer mom at night they keep The fowerg grew foe and I had con-





 anat my citrons and watermelong an tal
thereby spoiling the truit; this I learned
trom experience last year.
My My garden was always one of interest
to everybody who saw it. The bouquets cut seemed to brighten all who saw
them. $\begin{aligned} & \text { Hummingbirds, butterflies, bees, }\end{aligned}$ and birds, seemed to be my most inter-
ested helpers by day, and the toads and ested helpers by day, and the toads and
moths by night. I often saw a sleepy moths in night. 1 orten saw a steepy
toad in his cool reat under a leat.
The cattle would longingly look at my
fat cabbages, but were not allowed to at cabbages, but were not allowed to
come nearer than the meadow fence.
It was always a pleasure for me to be
working in my garden. Ithink that
wature can show more of her handiwork
in the formation of a flower than anything I know of.
I'm sure that Puck is very kind in
getting the Beavers interested in nature
gent getting the Beavers interested in nature
and gardening. Still wishing that the
other Beavers. were as interested as I was, I remain, yours truly $\begin{gathered}\text { HOWARD JAMIESO } \\ \text {. }\end{gathered}$

Miss Sylvia. Pankhurst was arrested Shoreditch, where she addressed a meet.
ing on December 9th, for the purpose of organizing
ple's Army
The port of Dublin, closed since the end of August, was re-opened on Decembe
11th, when the dock-workers agreed to resume work. Eighty thousand people
in Ireland were on the verge of starva tion as a result of the strike.
United States, British and German
warships are guarding the neutral zone United States, British and German
warships are guarding the neutral zone
of Mexico. A desperate of Mexico. A desperate battle that
raged at Tampico during December 11
and 12 was stopped by and 12, was stopped by U. S. Rear
Admiral Fletcher, who threatened oo open
fire on the combetants from his gunboat fre on the combal
unless it ceased.

Leonardo da Vinci's famous portrait of
Mona Lisa, stolen, from The Lourre in
August, 1911, and since searched for in August, 1911. and since searched for in
vain in many countries, has been dis-
covered in Florence by Prot. L. Credaro covered in Florence by Prof. L. Credaro,
Minister of Public Instruction añ Fine
Arts, and the man who had it in his Arts, and the man who had it in his
possession, one vincenzo Perugia, has
been arrested. Perugia says he stole it been arrested. Perugia says he stole it
out of spite to France, for whose gal
leries so many works of Italian art have leries so many works of Italian art have
been purchased. The "Mona Lisa" is
regarded as priceless, France having ro-
fused $\$ 5$ 竍 fused $\$ 5,000,000$ for it, oflered by the
British Government. Da Vinci, the
master, painted it during $1500-1504$.

Encylopaedia for Every
$\qquad$
The People of the Whirlpool.

## m <br> nillan Publishing Cocured Trom The Mace York. 1

## A Waysine Comedy. May 15th. Madame Fitiquette

 May 15th. Madame Etiquette has en-tered this peacuful village. Not, howrench regime, hut travelling in the
wake of the Wiripoolers under dublous
aliases, heing sometimes called Coord
Form and at the other The Correct Thing. At present she is having of
hand-to-hand encounter with New Enc. hand-to-hand encounter with New Nary
Iland Prejuitie, a once stinwart old aly
of firm will, but now considerably wealland Prejudice, a once stalwart old 'ady
of firm will, but now considerably weal:-
ened by age and the incessant arguing of her great-grandchildren.
Che result of the confict is quite
Tncertain, for actwally ceven the Sunday question, hangs in tic balance ; while
the spectacle is most amusing to the
outsider and eribarassing to the retroes.
Father, seeing through medical eyes,
regards the matter merely in the light
of ald
 sarcastic; he much preferred gard
quiet and shluking his evening pipe
the tune of soothing conversation co cerning the sural thays' doings, to the
reflex anviety of settling social prob-
 myself unvillingly involved, for one New
England hatit has not been abandoned-
that of consulu ing the wife of minister and ductors. eveng it holes are of ministerward
picked in the result. and in this coll and ductor, even it holes are arterward
picked in the result, and in this case
daughter stands in the wife's place. daughter stands in the wife's place.
The beginning was two years back,
when oben the Bluif colony began to be an
of speculation, followed in turn
by censure, envy, and finally aspiration by censure, envy. nnd finally aspiration
that has developed this spring into

age and purses of the participants. The ouseholders who went to the city for
Pem winter months were a ditte more
recise in their entertaining than the precise in their entertainine than the
born and bred country folk. As they
commonly dined at night. they asked commonly dined at night, they asked
people to dinner rather than supper, which is the country meal of state. Sut lawn parties, picnics, and clambakes at the shore were pretty much on the
arame scale, those who could afford it
having music and emploving a having nusic and employing a caterer,
while those who rould not mace no secret of the cause, and felt nerther
jealous nor humiliated. A wagon load
of neighborly young people might go on jealous nor humninated.
of neighborly y young people maght go po on
a day's excursion uncriticized, without day's excursion uncriticized, without
thought of dragging a mother or aunt
their wake though no one is more particular th
father in matters of real propriety cannot remenber haing formally chaper-
coned in my life or oned in my life or of suffering a shadow
of annoyance for the lack. Weddings were always home altairs
among the strictly couritry folk, by common consent and custom. no matter to
what denomination the people belonged. What denomination the people belonged.
Those with conrracted houses went cuietly to parsonage or rectory with a
few near friends: others were married few near friends: others were marriod
at the bride's home, the ceremony followed by more or less merrymaking tol-
church wedding church wedding was regarded as mo great
a strain upon the familles that the
young people had no ripht to alk it. young people had no r
even if they so desired.
That has passed. at least for the timo
being. and all eyes are fixed upon the
movements of the Bluf people. and movements of the Bluff people, and
many feet are stumbling along in their
supposed footsteps. It would in then many see are sotaps. It would be really
surposed if it were not half pitiful. The
funny if funny if it were not half pitiful. The
dear folk are so terribly in earnast that
they do not see that they are losing they on see that they are losing The Whirlpooleran. though only hero for
The between seasons. the between seasons, are constantly en-
tortaining among themelves. and hardly a day passea hut a coaching party
drives up from town with week-end
golfers for whom a dance is ivene or golfers for whom a dance is given, or
stops en route to tho Berkshires or
ore some farther point. A Sew outsiders
are sometimes asked to the more general of these festivities, friends of city
friends who have placos hereabout, the
clergy and their wives. and, alas, the Doctor's daughter.
it is not harsh judgment in me. I feel sure, when I say that Evan would not
be asked so often to the Bluns be asked so often to the Bluffs to dinner
if he were not a well-known landscape value. They always manage to obtain
enough of it in the guise of aiter-dinnoer
conversation and conversation and the discussion of gar
den plans to make him more than earr den plans to make Whirlpoolers are very thrifty, the richer the more so, especial
I those of Dutch trading blood, and they are not above stopping father on
the road, engaging in easy converse praising the boys. and then asking his
opinion about a supposititious chas opinion about a supposititious case,
rather than send for him in the regular
way and pay his modest fee. In fact, Mrs. Ponsonby asked me to luncheon last autumn, and and qutckly
transpired afterward, that she hudchen cranspired aiterward, that she had an
open trap for sale suitable for on
horse horse; she knew that Evian was look oning
for such a vehicle for that 1 might like this one. grew up around the transaction, and the
letters are now
ed "Mre ed "Mrs. Ponsonby a and the reack cart,
Finally 1 toong the vehicle out on a trial trip. I noticed that it had a p peocliar called hirm to examine the running gear.
Ho gave one look and burst guffaw : "Land nlive, Mrs. Evan, that's
Missis Ionsonby's cart, that stood
 good. 1 told her she'd have to get new
ones. but her conchana allowed shàd
sell it to some Jay. You ain't bought Good yor ", Nre Good-ratured Mrs. Joak-Smith, the
nioneer of the Blints, was the first one po throw open her grounds, when com-

 and satisfaction reigned foryboty went, nut satisfaction reignce for the time,
but when another season it was found
that she had no inention
calls, great no intention that she hat no ine intention of was found
calls, great disaring
disappointment
lasted for a momenn., for wae not a
travelling man, as the drummer is altravelling man, as the drummer is an
wave called in country towns, a person
of experience and knowledge of the of experience and knowledge of the
world. as well as heing not infrequently
as she pondered world. as well as hengg not infrequently
whrouded in mystery
on the card. wondaring is she pondered
on dared put on the card. wondaring it she dared put
it in her pocket, he said in a matterit in her pocket, he said in a matter-
of-tact way. again extending the wallet: op-tact way, again exke the deck, may
"Don't hesitate. take the
come handy, father like to keep goods in stook some time. That's my regular;
carty a side line too, perfumes and an

A-1 hair reatorer. Got all my samples \begin{tabular}{ll}
A-1 hair restorer. \& Got all my samples <br>

at Oaklands depot. \& | You mind stoppling |
| :--- | <br>

\hline
\end{tabular} there on

collar."
No, of course Fannie would not anind:
this last request fixed her companion armly in her esterm. his collar and proceeded without one.
never giving the matter a thourht; in never giving the matter a thouxht ; in
fact. ghe had been momentarily expect-
ing that this would happen. Now she would have the hiliss of taking him home in all the pertection of his tolle
as she frot beheld him. From that moment she grew more con-
vervational. and his utterance became
vind when they finally drove leess jerky, until, when they finally drove
up back of the long red brick rallway up back of the long red brick railway
station at Oaklands. a little before
noono she had not. only given him a noon, she had not only given him a
aynoppis of local historv, but was, in
ear excitement, vainly trying to recol-
her her excitement, vainly trying to recol-
lect what day of the week it was, so
that she milht fudre of the dinner that she mizht judke of the dinner
probabilities at home. also il it would probabinues at hine to stay. Fortun-
be mate to a ak hing
ately remembering that she saw her ately remembering that she saw her
fether beheading chickens the night be
fore which ginan forer, when guaranteed a substantial
oreal, she decided it was an absolute
meat duty. L. Middleton emerged from the
As
baggearoom in a fresh collar, even baggagoroom in a fresh collar, even
higher than the other, he threw an
ornamental bottle of violet water into ornamental bottle of violet water into
Fannie's lap to keep company with the Fannie's lap to keep company with the
horweehoe. Immediately Hope arose at the combination, and settled under the left folds of Fannie's pink shint waist;
for Middleton seems a distinguished for Middleton seems a distinguished
name to one who has been called
Penne pame to one who
Penney for twenty-ight years, and ro-
mance had never died in the heart unmance had nevar died in the heart un-
der the pink waist. for the reason that it was only at this moment being born. On arriving at home, Fate continued
to prove kind. ${ }_{\text {Mrs. Penney }}$ was into prove kind. Mrs. Penney was in-
spired to ank the guest to "stop to dimner." without any hints or gesticula
tions being neecessary, which might have tione being necessary, which might have
marred the first impression.
Not only did the chickens appear at the table, where no canned food was present, but
there was a deen cherry pie so woll there was a deep cherry pie as well,
which was eaten with peculiar relish by the commercial traveller, accustomed to the awful fare of New England country
hotols, where he was often obliged to hotels, where he was often obliged to
use his own saumples to fill gaps. He gazed about at the comfortable kitchen, and won Mamma Penney by praising the
food. Father Penney took a hasty bite In the buttery, and soon disappeared to rescue his goors from the highway. Was always considered sonething of a
drawback to the matrimonal prospects
on his of his daughters: for, as his nose in-
dicatod, he had a firm, not to say comdicatod, he had a firm, not to say com-
bative, disposition, and frequently inbative, disposition, and frequently
sisted upon having, not only the last the first word upon every subject,
that Fannie regarded his golng in then that Fannie regarded his gotng
light of a special providence. Atter dinner the three other Penney
sisters all tried their best to be agreeable, Marie donning a clinging blue gown and walking up and down the
plazza waterine plants at this unusual
hour of the day hour of the day for his particular bene-
fit, a performance which caused L . Middleton to ask. "Say, did you ever
do a vaudeville turn?" And Marie,
not kno not knowing whether to take the remark
as a criticism or a compliment, pre-
ferred to colke the as a criticism no a compliment, pre-
ferred to take the latter view and an-
swer in languid tones,"No, but I have acted, and I've been
seriously advised to go on the stage." In the middle of the afternoon, the
load of groceries having arrived sately.
Fannie's "'hero" houk his leave sat Fannie's "hero" took his leave, Pately.
Penpa
Penney driving him to the village inn,
where he was to For a while L. Middleton was a stan



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 D. Mclachlan a Co., Chatham,Ont. Lucifer, and that wan why he didn'i Lucifer, and that whe why ho didm
spell it out. Then as ho beemod abour tading from the horizon, ho raeppearal suddenly one cris Ootober morthang, jum
starting starting on his nastorn ' fall route, he
said, and invited Fannie to go to the Country Fair. Again a period of silence followed. The sieters remarkkd that moot traval
ling men were awindlera, etce., bus Fannie persistently put violet water oo the handkerchief that she tuckod under
her pillow every night., untill, her pinow every night, un
set in, the supply failed.
Then an idea came to her, the took hanging over her door, covered ito dinginese with two coatt of gold paint, cut the legend, "Sweet violets,", to
gother with the emboosed fowers, from the label on the perfume botrle, pasted them on the harseshoe, which abe further ornamenten with an anormour
ribbon bow, and despatched it seoretly to L. Middieton by express a lew dayy belore Christmas.
At Nex Yeart: a box arrived for Fannie, It contained a box arridived pin the shape of a horseshoe, in addition to Targe, heart--haped candy box filled
with such chooolates that each wal ail 9 foretaste of celestial lliss to Fannie, who now thought she might tairly
assume nairs Half a dozen letters went rapialy back and torth, and theo the proposal bounded along as unexpectedly as every other detail of the courtship. There wau
very little eentiment of expression abour it, but he was in earnest and gave reference as to his respectability, ete..
nuch as il he were nulch as if he were apply ing for a bubi-
ness position, and ended by asking her at which end of his route she proferrise
to live Now York Co live, Now York. or Portland, Maine.
and it in New York, would she preder Booklyn or Harlem?
Fannie
andickly Fanie quickly decided upon Harlem,
tor, as frarie said, "There one ondy neadilive the street name and number,
while very few people jet realize that Trokly. really is in New York.


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Siney giris arase in their might upon 0 echurch wedding.


 Titie chance for pomp and deremon. zt
 has llearal to the degree of thanferanco





 tultod the groom, he wound have oon do




 sito ot the complikation of tubest. in







 to invite them? Do you know any of
then ? "obll not intimately, but. Mrat. Porr





 Tm to flivo in Nowe York, and an Tvo asver lott home boarere tit would bo so Pioseant to komw somenody thero tro Tut almost made ur mot mind thorrst true
 har own ageo. Ah, it Luminie Dorman had only band hero that dayy tho coont
 I Rere lorgat tit? The rain and cool Weather or the past ten days hapt baply



\section*{桼} | henar |
| :---: |
| here |
| ner |









 it was not until his wife hal give given
her first exhitition of fainting, and
Fannie cried her eyes red, that he apFannie cried her
parently yielded. We arrived at the church at about ten
minutes to eight. father and Evan having been parsuaded to come in recogni-
tion of good peighborhood feeling. The
back part of the church was well nlled. back part of the church was well alled,
but the space above the ribbon wad

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 acing stabile flect.



 had come af asort of lark to kill time

 ort hant, and tha organ, in the hands

 brial. party wasabout to appari, and








 shor waer outirily forgroten in the ox-








 griat gigtee oloud and fratyat got ino
 the customary groaning undertone that
is meant, I suppose, to give courage to
the nervous and weak-oiced during the the nervous
responses.
outside the church, in in ther rer, two
men in evening drese might nave boen
















 sith or reile aroee, tho couple stepped
torrarta nand the ceremonyy begen . When,
 reated to a pew. Prom which he could
not be disloged. Another hitch was
only averted by the grem pleasantly toward his father-in-law, and
saving, with a wave of his hand, (Tt)' saving, with a wave of his hand, "II's
ail right, don't trouble to move ; you
said 'I do,' I think ; the Parson under-

 seh-possessed Lherty, 1 thought that
the travelling man had the makings of
a hero in him after all. It afterward
transired that transpired that the hapless best man,
left in the coal collar, and not missed
until the party was halfway home, had only wrenched his ankle, and made his
escape to the village tavern for conso-
lation, proving that even commercial trave proving that even commercia
travellers may be upset by a fashion
able wedding ceremony able wedding ceremony.
(To be continued.)

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them to-day


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| :---: |
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oughly equipped for effient work
Ry oughly equipped tor emciert work. Bhy
an oversight, the advertisement which appoared in our Christmas Nuimber last
week failed to contain the addreas.
Our week failed to contain the addross. Our
roaders, therefore, who may be intereat. roaders, thereore, who may be interest-
ed, will do well to correapond with Mr. Westervelt, addresing the Westervelt
School, YM.C.A. Buiding London School, Y.M.C.A. Building, London, ont.
When the West India delegation visited Ottawa to adjust proferential trade arrangements, one of the uppermost con-
siderations was a better steamship service between the ports of Eastern Canade and the Islands. This is now to be realized by means of four splendid boats of the Royal Mail Packet Co., London. Eng., said to be the largesi steamship company in the world. The, are especially fitted up for tropical traflc supplied with ample cold -storage comThe boats are sailing from Halifax, N S., and call at many leading points of interest in the West Indies. The round voyage occupies 39 days, and the trans-
portation fares are reasonable.
Readers should look up the regular announcemen in another column.

## Gossip.

brockville distaict ayrshire An Ayrshire Breeders' Club, for Brock ville, Ont., district, was formed at a re cent meeting of leading breeders in Leed County. The club starts with an en rolled membership or 21 , and the prot pects are that it will be a power coodinnan, w. H. MacNish, of Lyn, ot lined the object of the gathering. W. F. Stephen, Secretary of the Canadian A shire Breeders' Associlation, gave a valuable address on the Ayrshire cow, dwal ing especially on the importance of Record-ot-Performance work to bring out her best qualities. W. H. Smith, B.S.A.. District Representative, emphasiza importanco of keeping the herd bull as
long as possibile, there being a tendency to sell him to the butcher at three or
lour years of age just the time when the Cour years of age, just the time when
breeder know what the offaprings were to be like. If they were satisfactory, the animal should be retained or exchangeol
with some other breoder.
Addresees tol
 Dargavel, Elege, metang. Ahen orrassized a
borab
ctub, to he calet Club, to be called the Brockville Bistrict
Ayrshite Breeders' Club; withr the tollow-


 Newboro; Secretary - Treasurer, A. J. J.
Hudson, L. Lyn; Directors, H. E. Bowser, Delta; W. H. Bradiey, LLansdowne; G. W.
Percival, Glen Buel; B. N. Henderson,
 Athens.
A member of the House of Commons had been paying attention too a lamod tor
a lorg tine.
On the last day of the session, as they came out, he bought her
a bounut of fowers
nid "May 1 offer you my handtul of flowers?" She replied promptly, "I move to
anend
hand.', "'
Hent, ,"
meshingly seconded the amend-


## Ottawa

 Winter Fair HOWICK HALL, OTTAWAJan. 20, 21, 22, 23, 1914 Additional Classes, aloso incrased,
and extended rizes for Horses,

 Poultry. $\overline{\text { Over } \$ 12,000 \text { in Prizes }}$ practical lectures



 JOHN $\underset{\text { Ottawa, Ontario }}{\text { BRIGHT, President }}$ Ottawa, Ontario
$\qquad$


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 $\substack{\text { Write for full information to : } \\ \text { THE ARNOTT INSTTUTE } \\ \text { Ontario, Canada }}$
Berlin


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Do you know of the many tario, with its millione of fertlie acres, offers to the prospective
settler? Do you know that these settler? Do you know that thees
rich agricultural lands, obtainable
free free, and at a nominal cost, are
aready producing grein and vegealready producing grain and vege-
tables second to none in the world.?
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tion as to terms, homestead regu lations, settlers' rates, etc., write to
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Partiament Bidg. TORONTO. Partiament Bidgr. ONTARIO 264Page Bookon Silos and Silage


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toon. N
copls pap
his pap
suls paper.
siver manulacturing CO., selem, ollo

## 

These Premiums are Given Only to Our Present Subscribers for Sending in Bona-fide New Yearly Subscriptions Accompanied by $\$ 1.50$ Each.
Present Subscribers (if not already paid in advance) are expected to send their own renewal for 1914, at the same time as sending in new subscriptions. Below are described some of the premiums which we are offering for procuring new yearly subscriptions to "The Farmer's Advocate and Home Magazine"

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These would retail at from $\$ 3.50$ to $\$ 4.50$ per set, depending on locality. FOR TWO NEW SUBSCRIBERS or $\$ 3.00$ CASH, FARMER'S ADVOCATE KNIVES
Manufactured by Joseph Rogers, Sheffield, England. Jackknife and Penknife, both nickel-handled and having two blades. Manufactured
specially for "The Farmer's Advospecially for "The Farmer's Advo ONE NEW SUBSCRIBER FOR EACH KNIFE.
COMPLETE KITGHEN EQUIPMENT
A utensil for every purpose. All made of the highest grade of
crucible steel. Rubberoid finished. hardwood handles, mounted with nickel-plated ferrules. All six nickel-plater ONE NEW SUB-
articles for
SCRIBER or $\$ 1.00$ Cash.

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One self-sharpening scissors, one embroidery scissors, one buttonhole scissors. All good quality

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 CARVERSFirst quality steel, with staghorn handles and handsome nickel
mounting. These carvers retail from $\$ 3.50$ to $\$ 5.00$ per set. TWO NEW SUBSCRIBERS or $\$ 3$ Cash.
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Best quality steel; five pieces and rack which can be hung on the
ONE NEW SUBSCRIBER.


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set staghorn carvers


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SIX MONTHS' CREDIT Any subscriber may have the date on his own label advanced 6 months for sending us the
name of one new subscriber and $\$ 1.50$.

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OF HIS FACE" By Dora Farncomb, writer of Hope's Quiet Hour in "The Farm224 pages, in cloth with gilt letter224 pages, in cloth wis or ONE SU SUBSCRIBER.
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By Anison North-A Canadian farm story, bound in cloth, illustrated. Buffalo Courier says: "It is far above the ordinary run of fiction. Toronto World says: Should Cash, $\$ 1.00$ or ONE NEW SUBCashi $\$ 1.00$
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WITH HIM"
A new book by Dora Farncomb, marked by the same sweetness and spirituality that characterized "The Vision of His Face." Bound in cloth with gilt lettering. Cash, 75 c or ONE NEW SUBSCRIBER


SANITARY KITCHEN SET

The William Weld Co., Limited, London, Ontario

Flour trial is essential butit is not your work!

Flour varies from time to time in baking quality. This is because wheat continually varies according to soil conditions, etc.

Therefore, if baking results are to be constantly high sults are to be constanting tests are essential. It is unreasonable to expect you expense.

So from each shipment of wheat delivered at our mills we take a ten pound sample. This is ground into flour Bread is baked from the flour If this bread is high in quality and large in quantity, we use the shipment. Otherwise we sell it.

1. By simply asking for flour bêaring this name you;can always be sure of morebread and, better bread. 1
"More Bread and Bettér Bread" and "Better Pastry Too"

523


Imported Percherons, Clydes and Shires



Clydesdales, ${ }^{\text {Imported and Cana a duan }}$, in either imported or Clydesdales, Imporited fom, tan supply, in eitl

Questions and Answers.
Veterinary
Fatality in Pigs.
Dorit BlaME your forse Pigs four months old, fed on ground
oots, barrey and peas and pulped roots,
were doing well until one day I fed them a handful of salt. The next day they
became the became sick. They held their heads high
and staggered. When they laid down and staggered. When they laid down
they would pant. Two have died. Ans.-Some claim that when salt is led to pigs the results are mostly al-
ways serious, but it is hard to see how or why such should be the
the same time it is weit with same time it is unwise to mix salt
with thood, and practically force its consumption, and we notice that when
pigs have free access to salt, they consume very little of it. It is possible
that the salt caused the trouble mot the salt caused the trouble, but
more probable it is due to too high feed-
ing and want of exercise. Give each a purgative of about four ounces raw linseed oil, and feed on milk,
pulped roots for a few days.
 kind about "Pigeons," Ans.- Modern Sheep Breeds and Manthrough this offlce, at $\$ 1.50$, postpaid. There is a department in many poultry
books on pigeons, and we have a boolk on "Squabs for Proftr," which we could mail you at b0c., postpaid.
Pasturing and Feeding Queries. Will you kindly let me have your
opinion, through '"The Farmer's Advocate," in reforence to turning carttle into
meadows in the fall to eat the "atter meado
grass
1.

1. What effect will it have on next
year's hay crop ?
2. If the "after grass" is allowed to 2. It the "after grass" is allowed to
grow, and "ao cattle turned in on it,
after it is frozen, is that portion of the after it is frozen, is that portion of the
grass that is frozen simply wasted, or
doen the drass the goodness zoo beck into the roots
dond stimulate next year's and stimulate next year's growth?
3. If cattle are allowed to graze in 3. If cattle are allowed to graze in
meadows in the fall and eat down the "after grass," does this leave the roots in any way unprotected, and render the
more liable to be winter-killed? 4. Do you consider, by allowing cattle to feed on "after grass," the gain is
sufficiently great to conter-balance the sufficiently great to counter-balance the
effect on next year's hay crop? effect on next year's hay crop?
5 . Also, what kind of todder do you
consider consider can be grown in the Province
of Quebec to best advantage to feed to milch cows when the pastures begin to
get short of feed after August ? Millet,
corn corn, or what other crop would you sug-
gest that would grow in this Province ?
Is millet, fed green as outlined above, Is millet, fed green as outlined above,
considered to be good for milk produc-Ans.-1. Pastured ofr too closely it it
injures the meadows, they not being in as good condition to stand the winter.
Besides, if land is soft cattle Besides, if land is soft, cattle or horses
may punch it badly late in autumn. 2. The grass frozen down acts as a
protection to the roots, and goes back protection to the roots, and goes
to the land to increase fertility.
4. to the land to increase fertilys.
5. If pastures too closely, yes.
6. Judiciously done, generally yes, 5. Corn is a good crop where it can
be successfully grown. Millet gives fair results, but possibly you could use a
mixture of oats and peas to advantage, mixture of oats and peas to advantage,
or a mixture of sugar cane, oats and
or or a
clover.


$\underbrace{\text { treee }}$| b'go |
| :--- |




A horse cannot be expected to pull a load on icy roads or streets if his shoes are dull and smooth.

If you expect him to exert all his pulling power, he must have a foothold. Get
today and save your horse from danger and ourself from delay and annoyance.
On and off in twenty minates, RED TIP CALKS put you in the always ready class.

Compared to injuries sustained by your horse from falling, or possible fatal loss; not to mention damage to wagons and harness, RED TIP CALKS are CHEAP INSURANCE.

Send today for boollet K
THE NEVERSLIP MFG. CO. Now. Brunswick, N. N .
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ANGEROUS as well as painful Lumbache Nouralgia stitidoints Sprains ambis , WIL relieve you.




Aylmer Superior Level Force Pump.


 Tinch Made in $11 / 3$ and
TTis style of lever and
tcrum has several advan


 The base is adjuutable
admet mitty of top being raie
ed or lowerd to any poit ado or lowered
ent deaired.
 This is readily converted the addition of a flat bay
whitch ecrews into the croese Hhich screws.

 You'II never rerret placins
ne of these pumps on your sarm. Wrre us to-das
Aylmer Pump \& Scale Co Ontario

## Lies Poultry WANTED

$W^{E}$ are now starting to pack CARADAD CHRISTMAS MARKETS. As soon as your
birds are ready we will buy them. beed is dear, and there will bee
Feed are nothing gained by holding. Write
to-day for our Weekly Poultry to-day for our weeks Pouitry
Letter if you live west of Toronta
and have poultry to sell. and have poultry to sell.
prices f.o.b. your nearest sataio We pay a special reares for millk
fed crate-fattened chickens.
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Inspection at point of shipment; terms cash. THE BRADLEY COMPANY,
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Maple Sugar Bulletin. Let me know the cost of that books
you speak of on the maple - sugar inyou speak of on the maple-sugar in-
dustry. Ans.-The publication is a bulletin on
the maplesugar industry, issued by the the maple-sugar industry, issued by the
Dominion Department of Agrieulture, and may be had free on application to the may be
Hon. M
ture.

Kitten has Cough.
Kitten, five months old, vomited and
 had a sort of cough, or sneere, and
breathes heavily at times. Breathing breathes heavily at times. Breathing sounds like phlegm in nose or throat.

1. Has cough anything to do with the stckness? 2. What treatment, if any, would be
D. F.
ikely to prove succesaful? Ans.-Unless this cat is very valuab
it would be advisable to destroy it.

Combined Well and Cistern.
Well close to end of bari does not Keep enough water for horses and cattle.
We turned eave pipes to catch water oo We turned eave pipes to catch water of with windmill to tanlk in barn. The
roof is codar shingles. Will the water roof is codar shingles. Will the water
be all right for horses, if too much is not kept in tank?
Ans. This water should be all right.
It may be discolored a bittle if the hingles are new, and may taste a little of the cedar, but should do the stock no
harm, provided it is pure in other par ticulars.

> Black Head.

Can you tell me what the matte with my turkeys? They appear to be
very healthy. They soon become stupid and get pale in the head and die sud-
denly. We opened one and found it to have a large liver and yellow spots go-Ans.-The symptoms clearly indicate black head, an infectious disease common among turkeys. It is often advisabie to
get rid of the flock. Always iolate
affected of firds.
Place healthy birds in anected birds. Place healthy birds
new runs, or in buildings separated from the diseased birds. A little muriatic
acid in drinking water has been advised many times through these columns. Dis ased brat olton
What will remove itch and dust from cattile ? Last apring my milk cows an
peared to be very itchy. There were no
 the back and neck. Would bathing wit
some kind of disinfectant kill it? some kInd of disinfectant kill it? I a
feeding steers now, and have clipped of
the heir the hair along their backs, and I brush
them, but still they are nearly mad mith them, but still they are nearly mad with
itch. There ruust be something in the
skin. skin. J. E. M. Reeding, and impure blood. Wash thor oughly with a dveper-cent. solution of
Creolin often. If this doos not correct matter purge them with one pound of Epso
salts and four tablespoonfuls of ginger In water, as a drench. Follow the physic for each animal mix 18 propare this,
each of nitrate ach or nitrate of potassium and sul-
phate of iron. Give in doses of 1 is
tablespent tablespoonfuls daily in a bran mash until

He was a chubby, brown-faced, bare-
legged littlo Iegged littlo urchin, frora whom, during
my vacation, I enquired the way to the nearest goll' course. "ye.ll wang straight
"Weel," said he, "yel alang here till ye come to the trist on
yer richt, an" yell see minister yer richt, an' ye'll see a minister-I mean
a sign-post,", he corrected hastily, "'and
yend ye'll get the road frae it."
Thanking him for his information, I next enquired why he called the finge
post a minister. post anlling his ieet and gazing longingly
at the coper I held out to him, he stammered out: "Folks ca' it a min-
ister 'cos it pints the right and ister 'cos it pints the right road,
disna gang it itselp," and he rushed off
do to join his companions, while I retired
thinking deeply on the spread of disro thinking deeply on
spect to the cloth.

## Caldwell's Molasses Meal

You can save money by using Molasses Meal because it increases the value of other feed by $25 \%$ at least. But-be sure Meal that contains $84 \%$ of pure cane mill moss with amazing molasses- therapeutic qualities. Caldwell's Molasses Meal is the greatest concentrated feeding meal on the market. Itssystematic use is sound economy. Most dealers handle it. You will oblige us by telling us if yours doesn't.
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|  |  |

AnCLYDESDALES --- Stallions and Fillies WE have again landed at our stables a large and choice collection of Clyde Stallions

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Markham, G.T.R., Locust Hill, G.P.R
$\qquad$ CLYDESDALES PRIZE-WINNERS


TOPPERS IN CLYDESDALES AND PERCHERONS I have just landide a big
big ton salt a with the be
of stallions you ever saw. importation of clyded ANales and T. D. ELLIOTT, BOLTON, ONTARIO

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ทMount Victoria Clydes \& Hackneys ${ }^{\text {onkman }}$, nut

brgeding \& CLYDESDALES-STALLIONS AND FILLIES


Imp. Stallions CLYDESDALES Fillies Imp.


Ormsby Grange Stock Farm ormsown, ope Oue. Oying tion


- 

 barber bros., - Gatineau Pt., near Ottawa, Que. CLYDESDALES, IMPORTED STALLIONS FILLIES




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VETERINARY
DRUGS
write you nece any
wnce, when
we will quote very
low and reasonable
prices.
lonsultation by
diplomed veterinary doctor. For any diseases, write and consuit him now. NATIONAL STOGK FOOD COMPANY

1ABSORBINE Will reduce Inflamed, Strained, Swollen Tendons, Ligaments,
Muscles or Bruise lameness and pain from a Splint, blister, no hair gone. Horse can be
used. $\$ 2$ a bottle delivered. Describe your case for special instructions ABSORBINE, JR., the antiseptic liniment for

 NOTICE TO HORSE IMPORTERS GERALD POWELL, Comission Agent and Interpreter,
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Horse \& Cattle Insurance Against Dearh by Accident or Disease
 WRITE FOR FREE BOOKLET The General Animals Insurance Co. of Canada
Head Office: 71 Sl St. James Street, Montreal. Que Shires and Shorthorns
 hikesest breeding and quality. John Gardhoune
a Son, Highileld, Ont.

Questions and Answers. Miscellaneous.

## Cotton Seed Meal.

 In reading your valuable paper, I finthat cotton-seed meal is highly mended as a feed for milch cows. Would you kindly let me know where I could
buy it, and what the price would be ?

Ans.-This feed may be purchased from
Arms advertising feeds in this paper arms advertising feeds in this paper
Look up these advertisements and writ

Immature Mortgage
A bought a farm from B, subject to a
mortgage, which is held by a loan company, the mortgage coming due only in before due.

1. Is there any way he can compel the loan company to take their money?
2. If so, how ? Ans.-1 and 2. The company cannot be
compelled to accept payment mortgage money in advance, as desired
by A. A Cow Deal. when purchasing his farm lrom a farmer among which were two cows, for which
he charged me fifty dollars -each me the two cows were not great milkers, mo the two cows were not grea milk. I
but there was quality in the mila
also have to pay 6 per cent. annually on these two cows, also paying for stock
at one hundred dollars per yeir. The
one one cow came in last spring, but the
other failed to. The farmer asked mo atterwardg if the other cow had come in for about four months they only gave about 14 quarts a day, on an average.
during the summer. Now they only during the summor. No about 6 quarts a day. I am speaking of the two cows giving these
quantitities of milk quantitijes of milk, Can ${ }^{\text {I make the }}$
farmer take the said cows back, and Yarmer thake the said cows back, and and should there not be something allowed for not comi
is the one cow?
Ans.-We do not see that you can get anything from the man who sold you the tows, seeng milkers, ind as wo judeg from your description of the agreement
he did not guarantee them to be with he did not guarantee them to be got
call. No doubt you would. heve got more mo milk had the other cow freshened. Une case which you have not stated, yo would not likely be entitled to any reim-
bursement. If the cows are any good a all, they would be worth much more han $\$ 50$ each this fall.

I have four acres of clover sod that
wish to plow early in the spring and sow wish to plow early in the spring and sow
with Early Leaming corn for fodde Will it be proper to draw out manur Rrom barnyard and spread with manure
spreader as soon as it freezes up and through the winter at convenient times as long as snow is not deep? This land
is clay loam, and naturally well drained,
lity but not excessive. Will the manure substance wash away with the spring thaws?
Will it be a better plan to draw out the manure from barnyard through the winter and pile in a large pile in the fald aner the field in the spring, aft.er barles and oat seeding is finished?
Ans.- Either of the two methods would
ikely prove entirely satisfactory. Many rikely prove entirely satisfactory, the ma-
Cavor the direct application of the
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ piling is the better method, as heating
and rotting destroys these and saves trouble later on. It is largely a ques-
tion of soil, lay of the land, and whether or not the manure contains noxious
weed seeds. We are not sure just how
rolling your land is. If it is just enough rolling your land is. If it is just enough
to carry away surface water readily, it
would be all right to spread the manure as made. You will have to judge this

## 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 Compant Limited BADEN, ONTARIO MONTREAL OUEBEC

tHE BERLIN CREAMERY COMPANY BERLIN, CANADA

Canada's Champion Herefords or when nelecting a herd header
the fountain herd; for years my herd have proven their title as the champion heord of
L. O. CLIFFORD

Oshawa, Ontario
 Shorthorns, and the prices of all are moderate. I have shrophire and betod foom rame did ewes oo


## IRVINE SIDE SHORTHORNS

We are offering just now some very chooce scotch-bred heifers, high-class in type and
$\frac{\text { L.-D. phone. }}{\text { SHORTHORN BULLS FOR SALE }}$
8 head from 10 to 11 months, bred from cows which are from Imported
choicely bred bulls, prices are not high as $I$ need the space for stabling catte. blairgowite parm johin miller, Jr., Ashburn, ont.

3 Spriaghurst Shorthorns $\begin{aligned} & \text { Four of the frrst-pirie Shorthorns at } \\ & \text { the tate }\end{aligned}$

MEADOW LAWN SHORTHORNS ORTICHEST AND MBLE SCOTCH RREEDING, andifof high-class type' and condition. I can. supply
ybung bulls and heifers-Clarets, Roan Ladys, Mildrees, Stamfords. etc, L.-D.-Phone

My.
Mrtle C.P.R. and G.T.R.

 for a good many years with good results. I
fact, Iam never without it ${ }_{\text {H. }}^{\text {H. Nemory. }}$
 Dr. B. J. KENDALL COMPANY Enosburg Falls, Vermont, U.S.A. 79

Abérdeen-Angus and show Porme


## Shorthorns

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


 dNo. ELDER \& SONS, HENSALL, ontario. Spring Valley Shorthorns
 KYLE BROS., R. R, No. 1, Drumbo. Ontrrio WOODHOLME SHORTHORNS

 1854 MAPLE LODGE STOCK FARM 1913 Shorthorns and Leicesters
 A. w. sMITH, MAPLE LODGE, oNTARIO SHORTHORNS COTSWOLDS, BERKSHIRES



Shorthorns For Sale

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THE FARMER'S ADVOCATE.


Beef Scrap Charcoal Chick Scrap Poultry Bone Beef Meal Bone Meal Oyster-Shell Calf Meal Crystal Grit Dairy Meal Hog Meal Or any other line of stock and poultry food. Write GUNNS LIMITED, West Toronto, Ontario

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We have females of all ages and of the best Scotch families for sale. Those in- Bell 'phone. Guelph or Rockwood Stns. A. A. F. \& G. AULD, Eden Mills, Ont.

rShorthorns \& Clydesdales

 erested write for catalogue of their breding.
FREEMAN, ONTARIO
W. GETIT \& SORS
Burlington Junction, G. T. R. Bell 'Phone.

## SHORTHORNS

-Records show that cattle bought from the Salem herd won numerous ribbons the past season; we have others Several young bulls are priced reasonably.
ELORA G. T. R. and C. P. R. $1 \int \begin{aligned} & \text { SHORTHOORNS }\end{aligned}$ $\underset{\substack{\text { Farm } \\ \text { Burlington } \\ \text { mile function. }}}{ }$ MITCHELL BROS.. Burlington, Ont.

$\qquad$
DAIRY-BRED SHORTHORNS







Miscellaneous.
Veterinary books Will you please let me know the name where I could, get it ? Ans.-There are many., but The Farm Ans.-There are many,. but The Farm-
er's Veterinarian is comprehensivo and
easily understood. It may be procured easily understoon. It may be procured
through this office, at $\$ 1.50$, postpaid. Abortion in Cow.
 and all right. In a few days one lost
her call her calf, and she was supposed to freshen
in April next. In a few days another
one that was to freshen in February
lost her call, and I her them will do the same: Can I make the
seller allow for them? Ans.-This is a case where it is scarcely
likely that you could get anything fros. the seller. IR, however, you can prov
that the cows were affected with contagious abortion when he sold them to
you, and he guaranteed the wo he would be liable: However, it
would likely be very difficult to prove the trouble anyway, approand explain the mat ter to him. Miscellaneous.

1. How many turnips would it be ad-
visable to feed cattle, with silage, for tattening ?
2. What benefit would oil cake be cattle? 8. Are raw po
worms in horses ?
3. How much hardwood ashes would
be safe in feeding horses 5. How long will sweet clover stay in the ground without re-seeding?
b. How much per bushel is the seed? Our seedsmen don't handle it. They call
it a weed. 7. How many pounds per acre is sown?
4. Would it hurt it to pasture the 9. How would a little buckwheat mixed with oats and sown together, do
10 . What would be good to feed hen causes it ?
5. Is the red mortar-color good to put in drinking water for the fowl
drink ? 12. Does land require to be very rich in order to grow alfalia ? Ans.- . This depends wholly upon the
size of the cattle, the amount of silage fed, and the amount of other feeds given.
A $1,200-\mathrm{lb}$. steer getting a liberal ration of grain, hay and silage, does not absovariety
require
increases $\begin{aligned} & \text { roots, although } \\ & \text { palatability and }\end{aligned}$ gestibility. From 15 to 30 lbs. of roots prove the ration. 2. Oil cake is a highly nitrogenous
concentrate, suitable in small quantities
for putting finish on feeding cattle, sheep, or swine. Where a ration has
too wide a nutritive ratio, that is to wide a nutritive ratio, that is per
centages of protein to carbohydrates and Pat, it is well to edd a little oil - cake
meal. It is a rich, strong feed, greatly relished by stock.
6. We do not think so
7. Only a small handful in their oats, ${ }_{5}$. Swoene effective. clover is biennial, and mus 6 re-seeded each year. seedsmen whose adve
senson, in this paper
8. From 20 to 30 .
9. Pasturing young seeds is seldom,
$\qquad$ a profitable mixture.
10. Most probably this has been caused
by by injudicious feeding. Avoid green
food, such as mangels, cabbages, etc. which has been froven. Feed regularly
Do meen cease. Give good, whole grain, an Give plenty of grit also. 12. Not necessarily so. More depend the land, whether or not it is level of soil must be in grood tilth course, th
well cult nt.

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Astand

 DON JERSEY HERD $\begin{gathered}\text { Ofiers yound } \\ \text { buifers for sale: heifers bred to } \\ \text { Eminent Royal fern }\end{gathered}$


## The Uses of Bats.

 less of prejudices entertained by Cand
dians, and I suppose other peoples, is
prejudice against prejucice against be
had the chane


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Royor winning ram. Alos. 20 firit-class
Oxtord Down ram lambe
henry arkrli for son, Arkell, Ontario ALLOWAY LODGE STOGK FARM COLLIES
A few young puppies now for sale both from order early for a pood young An
bull thisy sear if you wish to
secure first cholde ROBT. McEWEN, BYRON, ONT.
Oxford Downs $\begin{gathered}\text { choice } \\ \text { lambs } \\ \text { ram and ewe } \\ \text { from } \\ \text { prize-win- }\end{gathered}$ ning stock 810, , 812 each. also yearling rams and
ewes at close prices.
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 ram winner at the Royal Show. E. Barbour
Erin. Ont., P.o. and station.
L.- D.- Phone Oxford Down Sheep $\begin{gathered}\text { Shorthorn Cat- } \\ \text { te, Yorkshire }\end{gathered}$
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Our English Correspondence.
The Britisn conment is paying $£ 47$, ees to horse-owners, for its extra supfees to horse-owners, for its extra sup-
plies of army horses, and it can call on 22,000 horses at 24 hours' notice. At Horsham Fat-stock Show, where Sussex cattle do most congregate, th championship prize fell to John Aungier
84-months-old Sussex heifer. Lord Tredegar at Newpo mouthshire, South Whases, yearly give £ 500 for a winter show 'of horses and
cattle. ${ }^{\text {J }}$ H. Maden's Shorthorn bull Montrave Ethling, won in the aged class and was reserve for the cattle champion
ship, which fell to His Majesty's Her ship. which rell to His Majesty's Here-
ford bull, Avondale. The champion female Yord bull, Avondale. The champion female
was Maden's Shorthorn. Cow, Holker
Waterloo 7th. Waterloo 7 th.
Sir George Barham died in Susear Sir George Barham died in Sussex in
November. He succeeded in bringing milk by rail to London in large supplies, from districts considered too far away, When in 1865 a cattle plague in the cou
try threatened metropolitan supply. C. Morgan-Richardson, a famous Wels breder of Shorthorn cattle, is dead. He stone, and Moonlight TYet. The last named realized $\$ 2,100$, to Mr . Duthie. John Graham, Carberry, Manitoba, has
beon buying Border Lelcester sheep, and has got one fine ram, called Whitting-
hame Achilles. The shearling ewes are by the best of Lambdee blood
The Scottish Board of Agriculture has
granted $£ 585$ for improvement in then breeding of sheep. About six hundred "superior" rams are to be distributed ang the crotters.
Yorkshire, the biser land, possesses 149,265 corsty in Engare, however, 540,145 head of cattle, and $1,762,696$ head of sheep. There are only
179,528 hogs in the county. The Cheshire County Council are spendwhich they mean to convert into small
holdings at a rental of 48 shillinga ${ }^{\text {acre } 1}$ English farmers are rising in their wrath against spraying of roads for
automobile fiends. Sir Alfred Tease automobile flends. Sir Allred Tease
says, cattle sheep and pedestrians are
being driven ant ane says, catcie sheep and pecestrians are
being driven ort these roads to which
they have an ancient and prescriptive ${ }^{\text {right. }}$ J. B. Joel, one of the South African diamond mining magnates, has won $£ 25$, ,-
420 in stake money on the English Turf 420 in stake money or stock won £30, 555 in stakes, and R. Wootton, the Australia trainer, prepared 66 winners, who
secured $£ 27,989$ in stakes for his stable's patrous.
Louis Winans won the last big race of the "flat" season in Ens matian, a six-year-old,
American - bred sod - looking
son
Ethelbert and Ionics. In the United States, Dalmatian the Empire City course, galloped nine Yurlongs in 1 minute 51 seconds. This
is begter than our English figures, hut the good old British atmosphere played it up on Dalmatian, albeit. He won at An Australian show jumper, Landlock has cleared 7 feet 2 inches at Bendigo
Show. He has been secured for England, and will very likely be seen at
G. Tympia. BURROWS.

## Gossip.

sale postponed.
In last week's issue there appeared an tle, the property of F. H. Harris, Mt
EIgin. Owing to an accident, the sale
las has had to be indefinitel.
Further announcement later.

We draw attention again to the bis
Holstein sale which J. A. Stewart, Sr Menie, Ont., is holding at Mormond Hil
Marm, arm, December 30th. Thirty-five hea
of producers, descendants of the great
Johanne
 he sold. Also two Clydesdale stallions.
The farm is two miles north of Hoard Station, on the Belleville - Petterboro
branch of the G. T. R. Converaces
will meet trains day of sale. Write at onco for catalogue.

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Shropshires and Cotswolds $\begin{gathered}\text { In my } \\ \text { arrived dare show rams and } \\ \text { and }\end{gathered}$


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