


The Wonderful-Light-Running The Wonderful-Light-Running
Gilson Thresher "Goes like Sixty"



Hay Season is Short-Hay Crop is Valuable A day's delay or a sudden storm in haying may mean a heayy loss. Wher-
iver hay must be handled quickly and cconomically yon can depand on LOUDEN HAY TOOLS
Honertly built simple sturdy onstruction-stronger than your work will over
demand safety first-use good judgroent LOUDEN EQUTPMENTIS A PROFITABLE INVESTMENT, XOT AN BXYPENBE
 GET INTERESTED

WRITE TO-DAY
If you are building or remodelling, our barn plan book will sare you Wrotry, thme
and Monoy; It's free, also our large illustrated catalogues.

$\qquad$
 The Inudea Machinery Co, of Canada, Itid

493 Orimes St, Guilpt, Ont
My barm is.

- anload from ......it. long, rafters aro apaced.......fl......... inchas apart, Thethor Grapple of Hatho......... I prefor to use. MBarn Plan Bookpostpaid, your large llustratod booke, marked below $\square$ Hiy Tools. $\square$ Feod and Kiter Onyriers. $\square$ Horso Stablo Jitine. $\square$ Grapplo Hay Forke. $\square$ Stalle aid Stanekions. $\square$ Betri Dopr Pangark.
 I expect to equip present barns in month of . in month ol. .... .............
. Ioen through
............


Tractors and Threshers


## Dindividual Farmers' Threshers, suitable size

 Do your own threshing. Keep your farm and save expense.Write for rece catalogue, prices and any in
matton wanted. THE ROBT. BELLL ENGINE \&
THRESHER COMPANY Seaforth, Ont.
Also Steam Tractors, and large size


## THIS SPACE

In the April 24th issue is reserved for the first announcement of THE OEXIE"ACE"

The Latest and Most Sensational Tractor Success WATCH FOR IT


This Engine Will Cost You Nothing




 Gilson Mfg. Co. Lido, 259 York St, Guelph, Ont.

## Losses By Lightning

The Fire Marshall's Report show that in May 1918, 151 Unrodded Buildings No Lightning Losses on to the extent of $\$ 121,012.00$, and that there wer No Lightning Losses on Rodded Buildings in that month.
Printed matter.
The Universal Lightning Rod Co'y,
ontario

When writing advertisers please mention Advocate.


ingine Will ou Nothing tning

Unrodded Buildings and that there were nth.

## Co'

ontario
tion Adrocate.


## This Tractor Fills the Bill

 for the Canadian FarmerT IS the all-year-'round helper that takes the "arm" out of "farm. others, and prevents it packing the soil; yet it has plenty of power for its work and is strongly constructed to meet the hard usage a tractor will get

Pis E

## LEONARD Hugir

12-24
sets new standards among tractors for Economy, Simpli city and Durability. It will do all kinds of field work and all your heavy belt work besides. 40 years of perience makes it make good. Read how it works for 1 all year 'round:
SPRING SUMMER AUTUMN WINTER low, harrow, Pull binder, Run cutting Run saw, feed
drill, pull man- hay loader, box, corn shell- grinder and ure, spreader, drive clover er, hay baler, grinder and do oads.

Write for illustrated folder "Doing the Impossible."
E. Leenaurd 8 Sons

LONDON - CANADA


Wash Day Made Easy for $\$ 2.00$


Clothes Washer-best. strongest and most complete Vacuum Washer.
Will wash a tub of white or colored clothes in three minutes will wash
any thing from the finest laces the the heat bankett without a chance
of injury. Used for A bolishes labor of wash days- saves rubbing and wearing out of the
clothes, saves tired backs. A child can use it. Women discard 820 . 00 machines for it. Get the best. Don't buy a cheap washer. Satisfaction
guarnteed or money refunded. To prove to every woman that this is the best racuum washer. We wil
send it complete with long handle and exhaust protectors, postpaid, for
only $\$ 2.00$. Order one to-day. Don't wait. only $\$ 2.00$. Order one elo-day. Don't wait. N CO., Dept. AL 14387 Clinton St., Toronto, Ontario


Applying "Tarvia- $X$ " on Kennedy Road, Scarboro
Toronto
Making an all-year-round road with tarvia -
$A$ LL the year round this Tar- Behind the tank-wagon other dustless, mudless and ready, men are spreadis. for business! Tarvia surface a thin layer of As the pic the layer of brok e n
stones has been spread and now the steam-roller
 Made in Canada which the roller wil roll down in to the Tar-

Thus built a Tarvia - bonded is drawing over it a tank- macadam road that defies even wagon of Carvia-X," heated our Canadian frosts, and with by steam from the roller. A stands heavy motor-truck and the hot Tarvia upon the stone.
The Tarvia flows down among the broken stones, filling up the chinks, coating the stone, and cementing it together. wift automobile traffic

Such is the ideal road for ural thoroughfares, because it will last three to five times as ong as plain macadam, al though it is only slightly more expensive to construct
Te have booklets about Taroia which we should be glad to send you if interested.

## The <br> Company

-oronto winnipeg vancouver

## Hamess Must BeDepeñdable

 inn fine condition under all reasognable er arrumstanances


$\qquad$ 1) padded, laather linings and fkirts and jocke

Samuel Trees \& Co, Itd
Established 1866. 48 Wellington St.EnToronto

## NORTHERN ONTARIO

Millions of acres of virgin soil, obtainable at 50 c . an acre in some districts-in other
are calling for cultivation. Thousands of farmers have responded to the call of this fertile country, and are being
de comfortable and rich. Here. right at the door of Old Ontario a home awaits you. For full particulars as to terms, regulations and setters rates, wite
A. A. MACDONELL. Director of Colonization, Parliament Bullaings, Toronto, Ont. H. FERGUSON, Minister of Lands, Forests and Mines

## Getting the Most

## From Mother Earth

The Part Played by Correct Lubrication
With ever-widening markets for
their crops, progressive farmers
have realized the number of engine users heine faring long ago reached its limit of prodiction.
So they turn grade keeps their engines delivering power, as have men in other in engineers, after years of careful dustries. With mechanical power research have produced the authorthey plow deeper, work faster, and itative Chart of Tractor Recom-
cultivate a much bigger acreage. The tractor has right. The Chart shown here tells

## become a standard ment. It shim e- <br> labor

## Time way io Mobiloils <br> big things:

1-That mechanical power multi- | Farmers who get the most out of |
| :---: |

FOR PASSENGER CARS car has entered the farmer's life as a business as well as a pleasure vehicle. Its correct lubrication is as important as Gargoyle Mobijoils Chart of Recommendations." containing complete plate discussion of automobile problems and troubles.

IMPERIAL OIL LIMITED
Manufacturers and Marketers of Polarine Motor Oils and Greases
Marketers of Gargoyle Mobiloils in Canada
branches throughout canada

CORRECT TRACTOR LUBRICATION Explanations-The four grades of Gargoyle Mobioils
or tractor lubrication, purine to remove free carbon, are:





BOYS
BUY THIS HAND ${ }_{4}^{2}$ CULTIVATOR DIRECT FROM |THE FACTORY
For hand cultivating loosening up the soil, making earth ready for Garden or Flower beds, and
for raking it has no equal. $\xrightarrow{\text { Order forte Dollar ( } \$ 1.00 \text { ) Post Office Monet }}$ Order for two or Two Dollarar (2.0.0) for four
State len g th of Handle, if not satisfied fool refunded.
Save Wholesalers and if

Canadian-Warren Axe \& Tool Company, Limited


Choice Seed Corn - while
CEO G. gould. Fseaex
Kiln Dried Seed Corn
PATENTS Trade Marks. and Denikno


## $\frac{18}{485}$ <br> BESSEL LAND ROLLERS

are all steel except the Pole, They are braced and stayed to stand all kinds of hard work and wear well. The entire frame bottom and all, is built frame, The (18) anti-friction Roller Bearings make light draught The Draw Bracket and low hitch do away with neck weight. The Axle revolves with the drums and there is no squeaking or grinding.
The Cages holding the antifriction rollers are the best yet; they're MADE OF MALL ABLE ALL IN ONE PIECEno twisting or binding of the "Bessel" on the axle of the Spring i Roller. The Seat Spring is reinforced and is These good features are not all of the advantages of the "Bissell" Roller. Many more good points are built into them, makfor "" that up against lots of hard work. Ask Dept W for free
T. E. BESSEL CO.

ELORA, ONT.
We have doubled our factory capa. our customers far and near. See ad.


You should have our free illustrated folder on the "IDEAL" line of farm TVIēal IDEAL FENCE \& SPRING CO OF CANADA, LIMITED


STAMMERING - er stutter ting overcome positively. Our
 THE ARNOTT INSTITUTe fence, farm gates, Alt for Folder

KITCHENER.

## 

## Shinn-Flat Protects Property



Lightning Cant Strike IF Shinn Gets There First


## Most Accurate Ever Invented

 Are you content to go on in the old-fashioned way usingall your available farm help planting by hand, limiting your acreage because of labor scarcity, and keeping you help away from other pressing work in busy season? Get an O-K Canadian Dial Planter and get your planting done accurately without seed waste and in a fraction of the usual The O-K Canadian is the only planter that has the endless cup seed the seed. It is noted for being the most the seed. It is noted for bein
accurate system yet invented. From the roomy steel hopper the seed is
picked up by cups and deposited on revol-
ving dial plate. This makes it simple to $=2=E=$ Canadian $=1=1$ fertilizer. The second shoe opens the furrow deeper, mixing fertilizer thoroughly with earth.
thus protecting seedo when roppped. This is cor-
rect and necessary for proper fertilizer results. ret and tecessary for properfertider resuls.




Let Us Know Your Brick Requirements Now Once the building season really opens up it is hard
Militon Brich

$$
\begin{aligned}
& \text { Pe can ship NOW, from full stocks of Red and Buft } \\
& \text { Pressed, or the famous Milton "Rug" in varied shades. } \\
& \text { Let us know vournous }
\end{aligned}
$$

MILTON $\begin{aligned} & \text { Let us know your needs. } \\ & \text { PRESSED }\end{aligned}$
Head office: Milton, Ont. Toronto CIK CO., LIMITED

## e Your Ford Like a

usine
U cannot put any accese. ry on your Ford car that
dd more to your plenni dd more to your plensire
onvenience in riding. or nore wear and tear on the elf, than a set of

## nchuble

ck Absorbers ke Rough Roads Smooth?.
is the original cantileve le type, protected by Ehock-absorber for Ford Easy to attach. No
obore. Weight per set,


Single
Arm
Arm
Type
Set of
Four
$\$ 10$

will save your springs your comfort in riding their cost in a season. Money Order or t them back and well
moneWilcox Canadian Co Limited
ontario

Kline Mill
at Twiventor died, when pal
atice of new onc
at It is the the vicintey of Beecon In separating wild oats hash attachment. Vill Co., Beeton, Ontario.

## $\square \square \square \square$

ements Now p it like

## ICK

ed and Buffi
LIMITED
Adelaide St. Wo:

April 17, 1919


Build From Froe Plan Save $\$ 75.00$ to $\$ 150.00$ architect' fees.
Get complete Plans, ${ }^{\text {Bren }}$ Prints, Detailed Get complete Plans, Blue Prints, Detailed
Dramitioworling Specifications. and Bill
of Material, absolutely free of charge-our Drawinge. Worling Spectications and Bilu
of Material, bssolutely free of charge-our
Cataloue tello show. Buy Building Material at Factory Distributore Prices Get your Building Materials direct from
the source of supply. We are Factory Distre source of supply. We are Factory Dies Tools, Hardware, etc. If you are clanning
not new buildings or if you have old bulld-
ings that need repairs or alternation, be sure ling that need repairs or alterave ioln, be Bure
to get our catalague before going on with to get our catalogue berore go
the work. Ask for 'Catalogue of House. Plans and
Bnilding Materiale. It ors free to' any inter-- THE HALLIDAY COMPANY, Limited THE HALLIDAY COMPANY, Limited

## EDDY'S

Paper Specialties
CHE makers of 1 the famous Eddy Matches are also makers
of a long line of Paper Specialties. It is likely that you are using some of these products every day-perhaps without knowing it.
The next time you buy TOILET PAPER PAPER TOWELING or APER SERVIETTES ook for Eddy's name. It satisfaction and the best possible value for your money. Our experience of more than 60 years in business is your safeguard
The E. B. EDDPY CO. Limited HULL, Canada
Also makers of Indurated Fib
Washtubs, Palls, ott.

## ASPINWALL ONE-MAN




B EFORE you buy any tractor you have every right to say to the manufacturer: D "Show me what the USERS of your tractor have to say. Show me that it has already proved itself economical and practical in every-day work. Show me the figures your users have given you so that I may figure costs and so determine why I should own one of your tractors.'

Here, then, is part of one of the large number of letters constantly received from farmers telling us what their Cleveland Tractors do for them.

To begin with, I used my Cleveland Tractor to plow about 305 acres during 918 and used double discs, two 60 tooth harrows and a heavy wooden drag on one load for fitting.
When I plowed I covered from eight o ten acres a day with a two-bottom gang and covered about 40 acres a day with the harrows
I harvested 150 acres of wheat and oats at 25 acres per day

In July I used the Cleveland in loading hay, and got in the crop from 140 acres at the rate of about 35 tons a day

Besides these things, I used my leveland for a great many belt jobsput in 300 tons of ensilage in 32 hours, on 30 gallons of kerosene, for instance.

I now keep six horses, instead of the fourteen I had before and need two men less than previously.

My Cleveland is in excellent condition, ready for the 1919 season, and counting everything, I haven't spent over $\$ 10$ for repairs.
F. H. Johnson,

New Augusta, Indiana

Such specific, definite facts tell why the Cleveland is so fully justifying the faith that so many farmers have placed in this compact, powerful Tractor. Write to-day for complete information and the name of your nearest Cleveland dealer.

## The Cleveland Tractor Co.

 19107 Euclid Ave. $\square$ Cleveland, OhioThe largest producers of track-layine tractore in the uneld
THE CLEVELAND TRACTOR COMPANY OF CANADA, LIMITED
WINDSOR
ONTARIO

## Cleveland Tractor




##  <br> Alpha Engine RELIABILITY

DELIABILITY is the keynote of the Alpha. It RUNS when you want it to-chugs away all day and you never need to號
lts always reliable; always ready
Why?
Because it's so simply and sturdily designed and so expertly Ther bul
There's nothing complicated about the Alpha-no electric batteries delicate altachments to "keep you guessing
Just oil it; turn on the fuel - either gasoline or kerosene-and Alpha does the rest.
It takes a whole lot of the drudgery out of farmwork, and, in addition, saves time and fue

Made in 12 sizes, 1 /h to $28 \mathrm{H} . \mathrm{P}$.
THE DE LAVAL COMPANY, Ltd. Sarcers maveracturgs of pair suphis in cmuda

MONTREAL PETERBORO
WINNIPEG
VANCOUVER

## LANDS WANTED










 onrarro:
Mr. W. M. Jones, 32 Ad Adelide st. . ..,


SOLDIER SETTLEMENT BOARD, Canada.
NOW IN PRINT

## 


 THE GREAT-WEST LIFE better the policies of Dept. "Z" Head Office: Winnipeg

Tounded 1866

sine<br>ITY<br>It RUNS when<br>you never need to

ed and so expertly
o electric batteries;
vancouver

## LDIER TTLERS

urd of Canada by Ordee to be re-sold to qualifed

 ured soldiers, and murat ailw oven, free from
 will be binding on the
on the Board to
accept
 Canada $=s$ should be addressed
the province in which

\section*{| Hon. 229 |
| :---: |
| Haira |}

ISLAND
nt Board, Riley Blde
Charlottetomn

Canada.
remarkably interesting
ress of the Great-West ress of the Great-W.
r the Policy holders.

E COMPANY innipeg

# The Farmer's Advocate and smagerer Home Maóazine estanused succeed Home Magazine 

## EDITORIAL.

Kill the smut germs before sowing the seed

"Under protection, where will the revenue come from?"<br>Is that broken implement repaired and ready for the field? The season for action is here,

Railroads are being peddled at the present time, and a few of them might be picked up as Christmas presents for the boys.

Cast your influence on the side for better rural schools: This is a live issue now, and one that concerns you as a Canadian citizen

It is that extra pound or two of butter per cow each week that gives the profit, provided it is the outcome of better care and more systematic feeding.

The officials connected with the co-operative grading and marketing of wool are optimistic in regard to prices. Don't back-slide in the care of the flock and its product.

In the Farm Department of this issue is an article which discusses crop rotation. The crop varieties and kinds of fertilizers may be adjusted to suit conditions, but the principles are sane and worthy of consideration.
The "oleo" manufacturers are taking advantage of the high price of butter to boost their product, and are making a house to house canvas, urging consumers to
use oleomargarine. What is the Dairy Council doing?

A scheme has been launched by the Minister of Labor to democratize industry and give labor its proper position in the world of production. Perhaps, after all other grievances are settled agriculture may receive sore attention.
Spring has been rather tantalizing so far. The
weather has been mild weather has been mild enough to incubate the springfever germs, but the condition of the land has not been
such that one could and thus find relief.
Don't waste time raising weak chickens with poor
constitutions and lacking constitutions and lacking in vigor. Select eggs only
from vigorous productive Irom vigorous productive birds. The poultry industry
is going to make rapid strides, and the strong flocks will be the best earners.

The control system is being perpetuated for what
reason? The fel contrl is still about as much use as ever. They are now worrying
dealers for reports on last it is next winter that most people are thinking about.
The Manufacturers' Association and the Canadian
Reconstruction Associan Reconstruction Association are conducting wonderfully
thorough, yet inconsistent and contradictory campaigns against tariff reduction. One says: "Tariff for Revenue," and the other urges, "Buy Made in Canada Goods."

In many sections calves are being sacrificed on
account of the high price of milk and butter-fat is short-sighted policy, for we shall be in the dairy business for a long time yet and milk cows will be
required. Coond calves calf feeds. and other substitutes. raised on skim-milk with which to replenish the herd, and be strong in the business when the less provident are looking for milk

LONDON, ONTARIO, APRIL 17, 1919

## The Reason Why

It has been pointed out time and again that the population in the cities is continually increasing, and out of all proportion to the population on the land. Year by year the population in our cities is increasing fed. If there was the country. Yet the wide move from the cities to the farms, the production of foodstufs would increase to such an extent thit not only would there be large surpluses, but prices of foodstuffs would go down and farming would be still less profitdble.

The reason that the increase in population in our cities is greater than in the country, is that the production of foodstuffs per man through the use of machinery is constantly increasing, coupled with the fact that under our present economic conditions farming is not as profitable as city trades and the occupations of middlemen and merchants. Until such time as there is a readjustment of our economic conditions that will give the producer on the land a larger share of the wealth he creates, and which will enable him to improve his social conditions, there will be no back-to-the-tand movement that will be in any way offset the back to the
city rush.

All this indicates that we of the land, who intend to stay on the land, have a right to use every power at our disposal to adjust conditions that will give to the farmer a higher income from his farm, an income that will give him the same comforts of life as are available to those living in our cities.

The Farm Survey Work.
One of the most important lines of work being conducted by the Ontario Department of Agriculture is that known as "Farm Surveys". The initial step was sections of Oxford County have been canvassed to give some reliable information concerning agriculture in dairy districts, and now a block of Middlesex County, where mixed farming is practiced and grass land abounds, is being studied. This lattér investigation will reveal the truth in regard to beef cattle farming, and show what practices should be endorsed and what methods should be condemned in that part of the Province Dairymen learned something from the Oxford County sutvey. Farmers generally will profit by the results compiled in Middlesex, but perhaps more significant still is the fact that Ontario's agricultural ledger is being thrown wide open exposing the profit and losse: to the public gaze. In these times of so much acrimon ious discussion, when epithets are being hurled at the farmer and he is accused of profiteering, is there another industry that will open its ledger wide and permit the Government to publish its balance sheet? Is there another industry that will volunteer to have its methods investigated, and permit the dear public to know jus how it stands in its relation to them? When all in dustries are prepared to lay their cards on the table and request a close investigation then people will know the truth, but until such is done this twaddle about farmers getting wealthy will not be listened to by sensible people, especially when Government reports are avall The anyone who desires to get at the facts.
There is just a possibility, too, that these farm surveys will answer that question now uppermost in
he minds of the manufacturers, viz.."Under free trade where will the revenue come from?" We understand that already certain interests are beginning to feel that the publication of any further agricultural truths will be damaging to their cause, and are now bestirring themselves to have the soft pedal put on the farm

Instead of curtailing this phase of the Depart ment's work, it should be extended, now that farmers
required information. A logical step in advance Ond be the creation of a new department at the Agricultural College where students would and the opportunity of studying Farm Management ments- Sinating the teachings of the various departthe Collegi a department would be a good thing for and the instit would be a good thing for the students, of farm surveys, would help all practical farmers to better understand the relation of one branch of the farming business to another so the proper course to pursue would be plainly marked out for all districts. Above all the facts ought to be compiled and published, and a greater effort should be made to have these agricultural truths presented to urban people. When the majority know the facts then there will be a better understanding between all classes.

## Consideration For Rural Schools.

The Government of Ontario has done well to admit in the language of larger appropriations,' that rural schools are deserving of increased attention. This recognition on the part of the Educational Department seems to synchronize with a spirit of dissatisfaction in the country, and a realization that rural schools as now constituted are inadequate and out of date. The $\$ 250,000$ appropriated to advance the rural school is, we understand, to be divided between dental and medical inspection, higher salaries to teachers and, no doubt, the experiment with consolidated schools. We consider this an official admission that all is not right with the country school, and that something should be done, which is a long step for the Department of Education to take at one time.
Dental and medical inspection in the schools has been tried in some rural sections with positive results, One could hardly say gratilying results, because of the large number of pupis found to be suffering from defective hearing, defective evesight, adenoids, bad tonsils and other imperfections which retard them in their educational development. There are many instances on record where backward children have been punished and otherwise maltreated for their inability to progress at school, but when given a medical inspection the backwardness was found to be caused by some physical defect easily remedied. Slight operations, spectacies and other fittle attentions have converted so-called backward pupils into brilliant scholars. We are aware of a prejudice against medical inspection in some parts of the country, but it is not well-founded. School nurses are employed constantly in many of the towns and cities, and the parents do not resent having imperfections in their children (which are by no means uncommon) pointed out and remedied. All children are entitled to a fair chance, and the scheme of medical and dental inspection cannot be endorsed and applied any oo soon.
recommears "The Farmer's Advocate" bas been recommending consolidated schools. We have pointed at what has been done in certain provinces and states in this direction, and to us there appears no other solution to the rural-school problem but consolidated opinion in this that the Department of Education should lead this matter, and show the people of this province Consolidantages there are if we will accept them. and if found schools should be given a thorough triat, school, then no stone should be leff unturned until they become a part of our educational system.
We fear the Department will follow the line of least resistance, and be content to raise the salaries of teacher's and consider they have done well. Insufficient salaries have been the cause of many leaving the profession, and we would not care to discourage any move that will lead to more renumeration for good teachers. How-
$\qquad$




The Farmer's Advocate and Home Magazine.
the leading agricultural journal in the
Published weekly by
THE WILLIAM WELD COMPANY (Limited)
JOHN WELD, Manager.
Agents for "The Farmer's Advocate and Home Journal,
THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.
It is impartitil and independent of all cliques and parties,
handsomely illustrated with orisinal engraving and fur.
nishes the most practical, reliable and enro
 or farmers, dairymen, garden
TERMS Dublication in Canada,
OF SUBSCRIPTIO
 advance.

 responsible until all arrearages are paid, and their paper ordered
to be discontinued. to be discontinued.
REMITTANCES should be made direct to us, either by
Money Order. Postal Note. Express
ter. whicrer will or Regisered Let.
not be responsile. ter. wheresponsible.
THE be DATE ON
THubscripion is
ANoNXIOOS paid.
In every case the eminications will receive no attention.
be Given. n every case the Full Name and Post Office Address Must
be Given. A REPY BY MAIL IS REUURED to Urgent,
WHENEN
VEterinary or Legal Enquires. $\$ 1.00$ mest be enclosed.
LETTERS intended for pubication should be wite
 CHANGE OF ADDRESS, - Subscribers when ordering a
change of address sould give the old ase well as the new P. P.
change of address should give the old a
addreas well as the new P. O.




 ERED AS CONFIDENTAL and will not be forwarded.
ALL COMMUNICATIOAL in
nected with this paper should beference to any matter on
to any indivividual connected with the paper.

ever, this is not solving the problem; it is only shelving
it. The appropriation of large sums of money for the
purpose of creating new positions and raising sala purpose of creating new positions and raising salaries was calling for attention, and condition. Agriculture ten years was appropriated by the Dominion Governnot and will not remedy the ills from which agriculture is suffering. It applied a salve when an operation was necessary. This has nothing to do with the rural analogous.
What is good in the Department's scheme for improvement should be given staunch support, but they
should be urged to go on and give us better schools, .

## Making a Success of One's Life Work

## y allan mcdiarmid

A certain friend of mine has been all his life-time
wanting to get on to a farm and wanting to get on to a farm and make his living there,
instead of being tied down to the job he is at. Force





 all his life and I don't think that, if he expressed his
mind about it, he would say that the ever to
 but should have a partner ins the businesteng on th thiteory, who




a life experience heard the story of another man who had a life experience that reminded me of my two friends
mentioned above. He told it to me himself, and alt
He said that he lived half a century before he found in a wollen mill, but this was so little to his taste that
he took the first chance to get himself fired. It wasn't long before he got work in a hardware store. But they put him at carrying kegs of nails up-stairs and he came
to the conclusion that they were trying to break his spirit, so he quit that.
Then he tried farming. But the long hours and the hot sun were a combination that he didn't think favored photograph albums and went peddling. However as photograph albums and went peddling. However, as of business and find other employment. This turned out to be a job in a printing office. He didn't have to
make any special effort to get himself kicked out of here, and after experimenting with several other business concerns of the same town he concluded to return to the country as a book-agent.
But the farmers didn't seem to be impressed with
the importance of acquiring the knowledge to be found the importance of acquiring the knowledge to be found
in his "History of the Revolution" so he rented a small farm and started in to milk cows and feed hogs. It wasn't long before he discovered that, to make any profit out of them, you musst milk the cows at least twice after them. This fact, along with others in connection with the hog-raising, caused him to lose interest in the of his live stock he took the fastest train back to the city, Again he made the rounds and finally landed in a
ewspaper office. But this time the unexpected happened. He stayed on. He claimed to have found in his life he was contented and found himself making money. And it ended, in the course of time, by his getting control of the whole enterprise and in making
something of a name for himself as well as for something of a name for himself as well as for
the publications that he sent out through the country that had so long refused to provide
him a living. Now if one didn't know something of the ins and outs of this man's life they might suppose that there was only the one kind of work that the conclusion that anyone that didn't might come to the work that he was peculiarily fitted for would be a failure at everything else. It's a mistaken idea. We
were given brains and a certain amount of ability to ean make to adapt ourselves to circumstances. We have determination enough to do it. The trouble
with our friend that we have been telling about, was
that that, for the greater part of his life, he had been what known to himself, he quit drinking at the time he got
employment in the newspaper office. His change of fortune began with his change of habits. The energy he had wasted on his weekly sprees was now given to
his daily work, with the result that could easily have been foretold. Drunkeness and laziness go together chance to win out in the race in which we are all supposed
to enter. What I claim is that, if he had changed his ways
sooner, he might have made a success of any one of the many occupations in which he had been engaged with
such poor results; not even excepting the book ageney It's in the man, not in the job. The experience of that school teacher and the farmer I mentioned, are proof
enough of this for me. A man may not be so happy thinks he is better adapted for, but if he is the right kind Happort he will turn in and do the best he can with it.
Haps isn't everything. It will come some day but it isn't necessary when it comes to making our time
here of value to the world, as well as to ourselves. In hact some maintain that the person who has experienced the most trouble and misery of various kinds in this
life, is the one that has got the most out of it. I came across something lately that brings out this idea. It is
a short poem by one Samuel Daniel, who must have lived some hundred years of ago, judging by the style
of his verse, to say nothing of the spelling. But the
sentiment ho sentiment he gives expression to is the important point in it, although it runs contrary to the general idea.

## And to be unhappy is unhappinesse not t ' have known miserie

The way that leads us by adversitie
And men are better shewed what is amisse
By th' expert finger of calamitie, Than they can be with all that fortune brings,
Who never shews them the true face of things.

## If that is true it doesn't matter very much, after all,

 if things don't always go to our liking, or if we find our-selves tied to a job that seems to afford us less "happi-
nesse" than "miserie". Perhaps it was and nesse than "miserie". Perhaps it was a matter of
some importance that we should have learned a good
many of the thing many of the things that we did, after we had under-
taken the contract that has turned out to be our lifework. Again we say, it-doesn't matter very much what
that work is, provided it does not affect our self-recpect
We'


## Nature's Diary.

A. B. KLUGH, M.A.
The Groundhog or Woodchuck

The Groundhog, otherwise known as the Woodł chuck, has a wide range in Canada, occurring from-the Atlantic to the Rockies and as far north as Labrador Hudson Bay and Great Slave Lake. In the Rotlies and-British Cotumbia it is replaced by an allied species known as the Hoary Marmot, Whistler, or Siffleur. and its chosen habitation animal of the open forests the margin of a wood or at the present time is just a It rarely wanders further than a hundred a meadow. its burrow, except when it is seeking a new location for a home, which it apparently does every spring. Its burrows vary greatly in their complexity.
have but one entrance and a total length have but one entrance and a total length of but six galleries with chambers at the end of each and sever which cases the total length of the galleries may be over forty-seven feet. Most of the entrances have a mound of earth in front of them, but some have not, and in these latter cases the burrow has been excavated from below upwards. The Groundhog is the original inmain gallery it has a chamber in which it buries its xcrement
The Groundhog when pursued in its burrow fre-
quently plugs the burrow behind it.
The young are born in a chamber in the burrow
about the end of April. They number from twarrow eight, but usually there are four or five. They or blind for about a month, and do not come out of the
purrow until the middle of June. The male serme to burrow until the middle of June. The male seems to
leave the burrow prior to the birth of the babies, and to return about the time they are old enough to come out to feed. An observer states that on July 6, at five o'clock in the morning, he saw a family consisting of che parents and eight young out feeding. The mother went back and brought out all the young ones. By the end of August the young are nearly full-grown, and they go off by themselves to dig burrows of their own.
During September the Groundhog is up a supply of fat to last it through the winter ing early spring, and about the last of the month it retires condition season. It passes gradually into the dormant condition known as hibernation, a state which is not. like an ordinary sleep, but is a state midway between
sleep and death, for during hibernation all the bodily processes are reduced to a minimum. The rate of respiration is far slower than in ordinary sleep, as in hibernation the animal breathes only once every five. to nine minutes. The circulation is so reduced that the blood scarcely moves through the arteries and veins,
and the heart-beat is so faint as to be almost imperceptible.
The Groundhog awakes quite early in the spring, supply of green food is ready, and goes on quite extenited trips, as is revealed by its tracks on the snow. The purpose of these trips has not been satisfactorily de-
termined, though it has been surmised that this is the
This species can, and occasionally does, climb trees. particularly during their youthful days, often climb up ten or twelve feet in shrubbery and young trees that
abound in low branches, and not infrequently abound in low branches, and not infrequently scramble
up the trunks of large trees, which have partially fallen or slant sufficiently to insure them against slipping Occasionally, especially when hard pressed by a fastapproaching enemy, they ascend lasge, erect trees
whose lowest branches are some distance fro whose lowest branches are some distance from the
ground. But, in order to do this they must take advantage of the impetus of the rush, for they cannot start slowly upon the trunk of an upright tree and
climb more than climb more than a few feet without falling. Neither
can they stop and go on again before reaching a branch can they stop and go on again before reaching a branch
or other resting place." If caught at some distance from their burrows
adult Groundhogs, and more particularly young ones, will turn and put up a fight rather than run away. In Such cases they will charge at you again and again,
snapping their teeth, growling and biting your boots napping their teeth, growling and biting your boots.
The Groundhog's chosen fare is clover, but in the absence of this it will eat grass, grain or garden crops such as lettuce. They feed mostly in the early morning and in the evening just before sundown.
During the day they frequently lie out in front of their burrows in the sun and sometimes go very fast asiep. Upon one occasion I saw one thus sleeping
and approaching quite close and keeping hidden behind a little hillock I dropped a pebble on him. He started, ooked all round, and seeing nothing unusual settled him was evidently too much of an annoyance, as he descended into his burrow.
When Groundhogs become over-numerous they fre-
quently become a nuisance, not quently become a nuisance, not only by their destruction
of crops but by the numerous holes they make which endanger the limbs of horses and cattle. The surest way of eliminating them is to pour some carbon bisulphide down their burrows and fill up the entrance.
The heavy gas from this liquid will descend to the The heavy gas from this liquid will descend to the
end of the burrow, and will send them into a sleep from end of the burrow, and will send them into a sleep from

Founded 1866

## THE HORSE.

## Care of Mare and Foal When the

 Dam Has to Work.A brood mare that is not required to perform the functions of a work-horse during the nursing season the one that has to work fort it claimed that it is no proftable to keep a mare for the sole purposes of raisin foals; and, unless she be a high-class mare. there is
donbless considerable force in the assertion. Be that do it may, the fact remains that many farmers who as ined one or more mares depend upon them for the performance of a great portion of the ordinary farm work, hence the discussion of our ideas as to the better of this article.
Some claim that a mare should have at least a few she shows no definite symptoms to indicate that par turition will take place in a few days, and is worked
tight along until she shows symptoms of immediate righturition. We do not think it unwise to ask her to partorm light labor up to this time, but of course a mare during the last few weeks of gestation should no be asked performing light work than spending her time better performing it be at a season when she can spend her time on pasture, or taking regular exercise in some wiy. Under any condition a mare should be allowed at least 10 days to 2 weeks idileness after the birth o
the foal. The nursing of for foal is probably as great a
and strain on the physical as upies her non-breeding sister-
formance of farm work is Hences, we can readily understand that when the double functions are exercised
care and an extra supply of
fed of first-class oats is probably the better
feed for the quite young foal, but rolled oats give
good results; and of either it is, in most cases, safe to allow it all it will eat.
Wetter to the mare is at work it is generally considered better to have the foal shut up in the stable in a a com-
fortable box stall with the door so high that he will not attempt to jump out, and with no mangers, feed boxes, etc., into which he can rear or get into trouble in
any way. If he be allowed to follow the dam he will take more exercise than is desirable, consequently will not thrive so well, will be a greater or less nuisance to
the driver, and there will be danger of him becoming he driver, and there will be danger of him becoming
tangled in the traces or the implement to which the dam is hitched, thereby probably injuring himself. The box in which he is kept should be such that there is no danger of him getting into trouble in his attempts
to follow his dam. The walls and doors should be so high that he cannot get his fore feet over them, and there should be no openings through which he ean gen
his head. After a few days he will remain quite contented in the stall, and if supplied with a little chop
and grass will not suffer from hunger between meals Ind grass will not suffer from hunger betwen meals
In ty time the stall should be partially darkened. If the mare be a good milker, it is wise, for a time after this kind of management is adopted, for the driver to
milk her a little occasionally to ease the congestion of milk her a little occasionally to ease the congestion of
the mammary gland, but it will not be necessary to continue this long, as the lacteal apparatus soon forms
the habit of adapting itself to existing conditions. If the weather be cool, and the mare performing only
ordinary work and not perspiring freely when taken to the stable, it is is uite nafe to allow the colt to nurse at once, but should the weather be warm, or the mare
performing vory hard work, or from any cause be quite
warm, it is slangerous to allow the colt to nurse at once. In cases of this kind to the mew the colt to nurse oeve at once.
and is very table to cause diarrhoed
When one the young animal. When the milk in in this state the the attendant should draw
little cif and allow a few minutes, say 15 to 20 , to

elapse before turning her into the stall with her foal ing the foal to take milk under such circumstances, as he will be getting stronger and his digestive organs will have gradually acquired the ability to perform thei-
functions under such conditions. At the same time functions under such conditions. At the same time reasonable precautions must be continued in order
avoid digestive derangements.
WHIP .

## In Defence of the Hackney.

editor "The farmer
In a recent issue you published a photograph of a
heavy hatness horse, (a Hackney), with the statement that this is "A type of horse which the auto is displacing. Allow me to correct this very erroneous and unwa ranted opinion. In a recent issue of the Westminister
Gazette appears the following: "It is interesting know that the motor car has not driven the horse out or transport purposes. Plainly the authorities believ it will hold its own in civilian work, but if it did not, horse breeding." The Breeders Gazette, The Scottish Farmer, The Farmer and Stockbreeder and other leading papers, devoted to live stock breeding are all of the same opinionfor the best horse suitable to or the best horse suitable to get remounts and artilery Walpole Shales. A reference to the Annual Report of the National Live Stock Records, would have shown you that the Hackney was more than holding his own and All the breeds suffered more or less during the past trying times. There have been more Hackney stallions thange hands this year so far than in a number of years There is a good reason for this; the breed is so well

Rising Star good disposition, action and freedom from unsoundness.
There is a waiting market for superior heavy harness
horses, 15.1 hands, over and under; also for those that horses, 15.1 hands, over and under, also for those that sought for by the express companies and light delivery companies in large towns and cities.
There is no doubt that history is repeating itself When the stage coach was taken mercial purposese wade by those who had little knowledge of the subject and less interest. The Hackney is the real general utility horse, and with the revival of horse shows you will see them again champions in the carriage,
heavy express, light delivery, saddle and jumper classes heavy express, light delivery, sadale and humper classes
and the champion high jumper of the world
H. M. Robinson.

Work Horses Command High Figures in Britain
Since the signing of the Armistice up to the middle
of March 62,520 horses have been sold in the United Kingdom for a total sum of $£ 2,075,858$, or an average oi 33 4s. Prices have steadily risen since selling useful working horses have been brought from France.
Heavy draft horses for agriculture and heavy haulage purposes in cities and towns have been and still are in great demand. Their average price ranges around $\Varangle 55$ 250 guineas for an American Percheron-bred gelding sold at Tattersalls. This information was forwarded the demand for high-class riding horses and polo ponies
is far from satisisided and may remain so after the de-
mobilization is fompleted

We understand that it is not now possible to ship horses to Britain on account of transportation difficulties. However, those in authority are looking for
an early remedy to this situation.

## The Calgary Horse Show

 Calgary Horse Show held sway for three days and a good exhibition was staged. The Clydesdale exhibitors were forward in numbers with their horses in good fit particularly the older ones.A dozen horses came out in the aged-stallion A dozen horses came out in the aged-stallion class. not been seen at Calgary, but that fact does not prohibit the statement that some right good horses were out in the aged class this year. Baron Rozelle, shown by McKay Bros., Carmangay, finally won. He is a great big he moves nicely on a set of sound, likeable feet and legs. S. Haggerty, Belle Plains, Sask., ran him a close race with Magic Stamp, a slashing horse of most attractive headed this class. Scottish Crown came next in order. He was shown by Percy Harradence, Shepard, and is a likeable horse of good balance and under pining. He beat Jno. Laing's Scotland Major, a sturdy, clean limbed The two-year-olds were a good class. Thirteen horses were entered, and scarcely a tail-ender could be High River, won with comparative ease on Scotland's Cross, by Hamlet. In the championship duel the Cross. The to Baren Rozelle and reserv by A. Webster, Lacombe, on Nettie of Penkiln, which won the aged mare class.
Unlike th
drew the playdits Clale classes, the younger Percherons drew the plauditis of the ringside onlookers, The less than twenty-five horses were entered was an exciting one and featured several remarkably good colts. The aged stallions were just a fair lot. Contact, shown
by Vanstone \& Rogers, North Battleford, headed the class. He is a big handsome fellow but could travel a bit closer. Layzell \& Parr captured second honors with Casey. He is a bighorse, rangier in type than the
one that stood above him. R. F. Dygert, Edmonton, had a good horse at the head of the three-year-olds had a good horse at the head of tayzell and Parr of Calgary, were second with Goldet and Vanstone and Rogers were third with Pickadill. The two-year-old class was the outstanding
feature of the Percheron exhibit. Six horses out of the feature of the Percheron exhibit. Six horses out of the
twenty-five shown were exceptionally good ones, and twenty-five shown were exceptionally good ones. and Ino. Grant's Private stood ahead. He is a handsome horse in nearly every particular, but his strong point was his
great scale and style. Next to him stood Geo. Lane's great scale and style. Next to him stood. Geo. Lane' Ontario. This horse is thick, lowset, and balanced,
and while not as big as the horse placed above him
he is fully better underneath, with a stronger bone and a little wider foot. The championship in the stallion classes was won shown by Lane. The
$\&$ Parr.

## Our Scottish Letter.

It is three weeks to-day since I last wrote. In the
interval we have had our great draft horse carnival, and should Clydesdales almost monopolize this letter I hope for once that this may not be unpleasing to many readers. In the first week of the month we had the dale Horse Society, a visit from many overseas men serving in the forces and interested in horses, with provision for their education and entertainment, and self) who has for fully forty-one years been associated with the Clydesdale Horse Society, its Secretary for thirty-eight years, and Editor and Manager of The Scottish Farmer for fully twenty-six years. I would like to dismiss this
last affair, here and how, by thanking most sincerely all who contributed to that unique recognition of secretraial and journalistic work mainly by one's "ain folk."
Anything . like the form which the testimonial assumed was never once dreamed of by me. The man a tribute from over four thousand donors in all parts of the world, which took the form of silver plate and a cheque for $£ 2,000$ ( $\$ 10,000$ ). To all Canadian friends and contributors I say most sincerely,
from the bottom of my heart!"

The Glasgow Stallion Show.
The Glasgow Stallion Show was the fifty-ninth of a long series, and of these fifty-nine I have been present
without a break at forty-one. The first Stallion Show at which I was present was held in the Glasgow cattle market on the third Tuesday of February, 1879. How many aged horses may have been shown 1 do not reone hundred and twenty. There were only the two classes, and the winner in the aged class was Mr. Riddell's Bonnie Breastknot 108, his stiffest opponent being Pess to have any definite recollection of the appearance of the former, but the latter I saw not at the Show only or chiefly so as to remember him but at his owner's
or
stables. He was a clumsy, "wooden" sort of horse,
of a type which would not be looked at to-day, although
in the previous year, 1878, he was considered good enoue previous year, the famous Druid was considered good
at the H. \& A. A . Dumfries in in 1878 , and at at the R won first at the H. \& A. S. Dumfries in 1878, and at the R. A. . . . E.
at Kilturn in 1879 I 1 am not sure that even Druid
himelf himself would count for much to-day in spite of the
fact that he was of great depth and weight. He was rather round in bone, and lacking in quality of limbs
Still Still we could do with more of his type in so far as forma tion of top and quarters is concerned. In the three,
year-old class in 1879 the winner was year-old class in 1879 the winner was James Johnston's
Roderick Dhu, a dark brown colt which had won first at the H. \& A. S. Dumfries in the previous year $\frac{\mathrm{H}}{\mathrm{H}}$ breeding was never disclosed to Mr. Johnston, who
bought him at the bought him at the Merryton sale in April, 1878.'. His
dam was a mare named Boosie which Lawrence Drew
drought brought out of Derbyshire when in foal with what
became Roderick Dhu. In after years Boosie in the hands of the late Peter Brown, Craigton, Bishopton, had a colt foal by Sanquhar 2393. This colt foal begow prize as a three--year-old. Roderick Dhu had a Riddell's Rosebery, a light bay colt bred by Mr. Drew and got by Prince of Wales 673, out of an Entlish mare
named Ruby Rosebery was a nice quality horse with named Ruby Rosebery was a nice quality horse with the standards of to-day the relative merits of Roderick Dhu and Rosebery would not have been arguable.
However, that is idle speculation. Roderick Dhu won However, that is ide speculation. Roderick Dhu won
but he never travelled the district, nor did Bonnie But he never travelied the district, nor did Bonnie
Beastnnot The latter died at the beginning of the
season. and the former was a noted dealer of those far-off days called John Trestrail. In 1879 and up to 1892 the Glasgow premiums of
$£ 100$ were the blue ribands of the Clydesdale world. In 1892 the first competition for the Cawdor Cup took place, and increasingly since that time the Cawdor
Cup has been the crowning trophy, except when the winner of the Cup is defeated by, the winner wh the the
Brydon Challenge Shield, competition for which is Brydon Challenge Shield, competition for which is
restricted to horses three years old and upwards. This is what happened this year. The first prize aged horse was Falconer L. Wallace'. seven-year-old Dunure Re-
finer 17872 , which was buought finer 17872, which was bought at the Dunure Mains dispersion on January 14 for 3,500 guineas. He won
the Cawdor Cup when a two-year-old in 1914, and was then the champion of the Show. Thear-old in 1914, and was
of the year, the winner of the Cawdor Cup was George A. Firgs year the winner
old Ardewdale old Ardendale 18993 , which stood second in his-class
to Dunure Refiner. against one another. (or the Berydon Shield the issue had
already been decided. balanced horse, very true to Clydefiner is a beavillily sweet-quality limbs and close action. His top and
simder quarters are well formed and he has deep ribs. Ardenis not so deep in ribe, and does not give uptanding order,
ime same
impression of power in the fore limbs as Dunure Re miner. Of course, he is three years younger and if he
thickens and thickens and grows down in rib hew will bea a much heavier
horse than his successful rival on this occasion. Dunure
Refiet in her horse than his successful rival on this occasion. Dunure
Refiner is by Dunure Footprint, and Ardendale is by
Bonnie Buchlyvie both sites and Bonnie Buch hy yie, both sires being by Baron of Buch-
Iyvie 11263. The third-prize aged horse was Gray's Botha 19026 , of the same age as Are was Sale but
more after the type of Dunure Refiner more after the type of Dunure Refiner. He has been
a remarkable winner and pomises well as a sire. His
own sire was Baron of Buchlyvies well good type of draft horse was fourth in Hiawartha Again
18765 , a six-year-old son of the renowned Hat 18765, a six-year-old son of the renowned Hiawatha
10067, and one of the best horses alive to-day. He is owned by Mrs. Kinloch, Ardoch Farm, Cardross, and
is hishly popular with horse-breeding sociesies,
h. hired three seasons ahead. John Samsoci's Durumcross
Radiant 18333 which won both Cawdor Cup and Brydon
Shidd Shield in 1915 was firth. He was got by and Brydon
son, Apukwa 14567 and is a beautifully
 11876, and the highest-priced horse at the blanta
dispersion in March 1918. The seventh, Mr. Pollock's Royal Fern 18078 , a notable son of Bonnie
Buchlyvie with the best of feet and seldom seen a finer class of age horses. In quality
combined with weight and size, the seven named would
be very hard to beat. The leading three-year-old was Dunure Obligation
19426, a black colt by Dunure Footprint 15203 has the great record of haviure beootprint 15203 , which
Show at this Stallion Show as a yearling, two-year-old and three-year-old.
He is now ownel ty Johy Johnston, Carbookk Mains,
Larbert, and was reserce for the Cawdor Cup Second


 district of Aberdeenshire. His terms are the Donside and $£ 10$ additional for each mare proving in foal. That
means that he can win about $\& 500$ in this first season He is also hired for 1920 to Turriff dis rict of Aberden-
shire. The third prize colt was Giorge Bean's Royal
Footprint 19539, a beautiful colt with tho lhots and legr, a fine short back and good long quarters, He feet
was first in the following week at Alw was first in the following week at A1wrtwern, Twe
extraordinarily good colts were first and
two-year-old class at Glastow in the

 colts as there had been a yeer earlier when they frrst
met at Aberdeen. The same question hrises bet ween

Starm as between Dunure Refiner and Ardendale. Rising good feet and legs. Passchendale is more of the up-
stand standing, gay type. He was got by Phultipine 1804 , ham Harbor dispersion, out of Celia ${ }^{432282}$, by Dunure Footprint 15203 , and Rising Star is by Dunure Footprint out of Wells Mayflower 44057 , by Star $\mathrm{o}^{\prime}$ Doon
16103 , an H. \& A. S. first-prize colt in his time Graham, Kairnfatt, Kelso, was third, with Rorde Ensign 19631, a "slashing" big colt by Dunure Footprint 14567 In were flass of colts foaled in 1918, colts by Apukwa print were second and third. The thind bundure Foot Dunmore Refiner 19897 and has been exported to noston, Mass., by Mr. Grant. His price is quoted at 53,000 The fourth was sold in Aberdeen show-yard last week
for 81,500 . The latter price I can testify to as I present when it was being paid. The colt which is Yordstone, Kippen Station, and his buyer was James Kilpatrick, Craigie Mains, Kilmarnock, the naw Presi-
dent of the Clydesdale Horse Society.

## The Aberdeen Show

chief feature was the remarkable display of later. It especially yearling fillies. The senior championshi went to G. S. Ferguson's Passchendale, which had wo Botha, which stood second in the was Mr. Gray's erguson's Dunure Kaleidoscope 18335 which he pur guineas was first in the aged class, but did not compete for the chame aged class, but did not
comen rule that a horse minship, on account of the rule that a horse must be at least six monthy
in an owner's possession. George Bean's Rovil print 19539 was the thession, George Bean's Roval Foot ciasses on fyear ling and two-vear-oth fillines, and the two clas
of yearling colts. was or yearling colts, was won by Stephen Mitchell's first
prize yearling filly, got by Apukua prize yearling filly,got by Apukwa, out of Boquhan Jean
41590 , by Dunure Footprint. The reserve was James to his first-prize yearling colt, Risque, which occupied that place both at Glasgow and at Aberdeen, and uterine sister to Birkenwood, already referred to.. The
Aberdeen Spring Show is now one of the best in the
countre country for young stock, and several of the largest Recently George A. Ferguson paraded fifty stallions Egin.


Pride of Nullmills

## -

 herds and Highland Shorthorn and Aberdeen-Ingus on grain with plenty of green feed and good clover or tuds. Ayrshire Activities At the Boreland of Balmagtrie sale of dyrhires that the mated ewe she is mated. After sixteentecently, 92 head.of all ages made to to ingure
 .reat interest is being taken in mill records, and there The prepotency of a sire varies to a certain extent acbeen in operation for about twents) vears, bit stenl h. still great room for improvement. Tears, Sut thent
Book Association and the Ayrshire Arshire 1 It sociation have resolved to adopt a scale of points . .

 tems recommended are thirty per cent. The other (larm, Many samil turn in with some other rams or wethers.
 or mammary development, which phrase is to incelude become cross when with the eveses may be cured by turn-
size of teats, shape of udder, and mind
this scale be edhered to, it will mims. If not wholly annul, the method unfoultedly molify; not use him too roughly. A good stock ram should not
about seven ty-fiv per cent which puit be fitted for shows and at the same time used for service. and hang of the teats, and thok nowt the of the uluder and hang of the teats,
conformation and constit
mendable reform is stid
Recently in iconection.
the authenticated mill.



## W.

average for the fourteen herds overe tabulated. The
period was 533 gallons per cow. There is ul lactation to eliminate the bad sire-not in the dairy breeds need a difference between the high merit have too great of the cond the average merit of the commercial stocl read a paper to the Farmers' Ced Mansell, Shrewsbury He did nocate the elimination of the inferior or bad sire demned the animal. So far as horsesm, white he conworst kind of sire is the animal that is almost if the together, sterile. The Clydesdale Horse Societ not alsibly the end in view can hardly be attained without

Some Long-Lived Clydesdales he recent Stallion Show, a lecture was delivered by the was well attended by the men for whom it was designed the screen others. Over sixty photos were shown upod and it is noteworthy that at the and mares of the breed April 23, 1893 , stallion, Montrave Mac 9958, foaled on of age. He was looking remarkably fresh and fit, with clean, flat bones, and he went round the ring like 1487, which lived to be over the famous Macgregor and his dam was Montrave Maud 11786, whose sire season in 1888, that is when he was had completed his

## LIVE STOCK.

Care of the Flock Header Throughout the Season.
each year brin must constar
ould soon
young thing
The dams,
feeding, and
stock invite
o perish t
sthis true a
is this true
at such hig
precedented
It is ess
oots or silag
aining in fles
nodition cann
ondition can
and rugged
pal. Care
come chille
advisable to
advisable to
day or two
Many find
any find
or at least
fever. This
producing fe
The disease
it is believer
Ireshens cre
reshens cre
oo gain a
eecomes par
ing may pi
he throat.
distending
to have a
available
The mo
gestation is
he offsprin
the offsprin
er, year.
tonditions
providing
where pa
and anim
and anim
$\underset{\substack{\text { which in } \\ \text { exellen } \\ \text { malke }}}{\substack{\text { an }}}$

| tectien |
| :---: |
| anke |
| the ent |

Founded 1866

ecture of overseas men at elivered by the
en f the halls in Glasgow. It
n for whom it was designed
y photos were sit y photos were showsigned
s and maren
s mares of the breed traw there was exhribited
trave Mac 9558 , foaledt e almost twenty-sixed years
emarkably fresh and fit e went round the the and fing like
en
vas the famous Macgrege
 he was rising twenty-three
oss Rose 6203 , died when

## TOCK

Ieader ThroughSeason.

## bred ram in the flock is results. The care of the <br> and after is also of due <br> g his usefulness from to <br> sually purchases the in the season that <br> get a good selection oes not take delivery till reeding season <br> reeding season. He is turned with <br> for the ram during

and turn him with the last springs wether or ram lam
if they are not sold, until required again for service.
Middlesex Co., Ont.
D. E. McEwEN.

## W. Grice's Shorthorn Sale.

On April 2, William Grice, of Oakville, held a very
successful Shorthorn sale when eighteen head were successful of for the sum of $\$ 5.765$. The sale was largely
disposed
attended by breeders from all parts of Ontario, and disposed or breeders from all parts of Ontario, and
attended by
bidding was brisk throughout. The offerings were brought out in splendid condition and represented fashionable breeding. Locust Butterfly 5th, a Cruick-
shank Butterfly with calf at foot, was purchased by shank Butterfly with, at $\$ 525$. The imported cow,
Geo. Amos \& Sons, at

Sight thane in in the clean, strawy yard, on the septutstide side of the barn, on a sunny April day when the young lambs are frolicking about, and the calves and pips are per
forming antics which develop obe and muscle? While
 the eve of the proceedings, and woe unto the person who
would harm one of their offspring. While the flocks would harm one of hatr of to thiging the entire year,

 bawo the caves and the whiney oit the cotecder whose
to the stockman sears. Forturate is the breder when pens and yards sere in habited with new life. The natural increase means more to the bredert than the purchascol
new stock. It is the result of matings towards in bieed type and conformation. To , have the young stock arrive strong and healthy necessiates having the dimmsin proper condition prior
 when animals were in the wild stage. It is necessary
to give considerable attention to the stock previous to and at the time of parturition. Spring is the busiest time for the live stock armer, and the success) depends some diseases and troubles are being mastered,
seach year brings a additional problems, so that the breeder must constantly be on the qui vive to detect any irrez.
 Young things die every spring through sheer neglect.
The dams, too, are sometimes lost. Pampering, overTeeding, and not giving sufficient exercise to the pregnant
Stock invite disaster.
At no time should stock beallowed to perish through carelessness, and more especially is this true at the present time, , when animals are selling
at such hiikh prices and the demand for meats is unprecedented. The Cow and Her Calf. It is essential that the cows be in good condition, roots or silage, with suffcient reain to keep the cow sonititon cannot te expectect to fo five birth to as sstrong and rugged a calf as if she herself were in fair festh? nor can she be expected to give as good results at the
pail. Care should be taken that the cows do not become chilled either before or arter freshening. It is
advisable to take the chill of the drinking wate to

 it it not ad a sisale to tanik the udder out completely
for at least two or three milkings, so as to prevent mik lor at least two or three milkings, so as to prevent milk
fever. This disease frequently attacks the heaviest tever Thise disease frequently attacks the heaviest
producuing female within about two tays after freshening
 it it believed that emptying the udder soon a fter the cow
freshens creates a condition which pernits this trouble to gain a foothold The entire system practically
bebocmes araravedt the patient lies with her head turned
tot the id ing may prove catala, owing to the partial paralysis
the the throat. If the cow falls a victim to the trouble,
distending the teats and udder with sterilized air or oxygen has resulted in complcte recovery
to the in we welf
ther avaiable cows have been saved by pumping air into the
udder ryv the use of a biecycle pump and teat siphon

 harbored ins the stable. Our climatic conditions, however, permit of running the stock on grass less than half
Hhe verur Therefore it is advisabie to initate natural conditions so far as possible in the stable, by means of
providing sucullent fed and having the stal throughly ldeaned in some section the thortatity runsurgh sh
where parturtion takes place before the grass starts and animals are allowed to condition themselves with this nat ural spring tonic. The good stocknan, however,
overoculse thise dififult tes by compunding a arition
which which is stithte to the animisis in his care. Roots are
excellemt luil lor pregnant animals, and oats and bran make entifaclory concentrates. If the cow nearing
 to frestron and the administering of them might be

## Springtime in the Barnyard.

puts the bhe can then lick the new born calf which tied it is not uncommon for a calf to perish before the floor it soon chills if the weather is anyways cold. A chilled calf may fall a prey to diseases and ailments which if it were warm and comfortable it could easily
ward off. As germs of some diseases lurk in the dark recesses of the stalls it is well to thoroughly clean and disinfect the pen used for cows freshening. Use an abundance of clean straw.
Under ordinary conditions it is not advisable to interfere during parturition. However, the attendant
should be on hand to assist if there should be abnormal presentation or the labor unusually difficult. If the calf is coming wrong skilled help should be obtained. Assistance is often given by pulling outward and down-
ward when the cow labors. Avoid using too much force ward when the cow labors. Avoid using too much force rope and pully may be used. If parturition is so difficult pulling required the united effort of three or four men pulling at once, the veternarian should be called in as he
may be able to remove the calf without undue injury to the dam. It is not uncommon for the pelvic bones to cause partial the cause partial paralysis by undue and injudicious force.
If the afterbirth is not expelled within twenty-four

Getting Their Beauty Sleep.
hours it should be removed. This also requires ex remove all the membranes. If a portion is left it may decompose and more or less poison the animal's system1.
The womb should be flushed out several times with warm disinfectant solution. . After the call is born the herdsman should see that it is able to suck and obtain the first milk, which is of
a laxative nature and is provided by nature to give the young calf a start. If the cow is to be hand-milked, it is well to separate the calf and dam after the first day. Four or five quarts of whole milk is sufficient for the
new-born calf. This may be increased to six or eight quarts as the calf develops. Where calves are pail-fed weeks old. It is well to make the change from whole to skim-milk gradually, and care shou and diarrhoea may be avoided. Scours is a common disease in the calf
herd. Clean stalls, well-ventilated pens,scalded pails, and the right quantity of milk fed at the proper temperature, all help to prevent this disease. Adding a little lime-
water to the milk also helps to keep the digestion right. water to the milk also helps to keep the digestion right. Calf cholera sometimes attacks the youngsters which
are raised on the cow, as well as those fed by the pail.

This is a contagious disease and it is believed that the germs of the disease enter the system through the freshlysevered navel cord. Using a disinfectant as soon as
the calf is dropped helps to prevent the trouble. This disease is seldom troublesome when cows freshen on pasture thus showing that the germs must be in the thoroughly disinfected the necessity of having the stalls The young calves will soon learn to pick at a little grain and hay. If they are in a pen with a calf a few weeks older than they are, they will learn to eat so much these feeds the forter it will develome oats, bran and turnips, with a handful of fresh clover or alfalfa hay, should be put in a convenient place in the pen when the calf is two or three weeks old. Do not allow the feed to become stale, but empty the feed trough
every day and put in fresh. If the calf is fed skim-mill using a little oil cake and cornmeal helps to supply the fat removed from the milk. If the calf is to be kept thrifty it must have all it will eat without upsetting its well-ventilated pen. The calf that is stunted through neglect and the lack of proper rations will not develop into as valuable a mature animal as it would had it received proper attention when young. No breeder
can afford to neglect the young stuff. Along with feed

they require exercise and a clean sunny barnyard is a

The Flock Needs Attention.
The care and attention mentioned in regard to bovines at the time of parturition applies in a measure
to the care of the flock. Good shepherds give their flocks unstinted attention at lambing time and are usually amply repaid for it. By proper care and feed during late winter and early spring, and then giving the proper attention at the right time saves tish. As spring aplamb which otherwise might per the roots in the ewes ration and increase the grain. Oats, bran, a few peas and clover or alfalfa hay are relished by sheep. As lambing time draws near it is well to trim the wool around the
udder. The ewe about to lamb should be removed from the main flock When symptoms of parturition are discernible it is advisable for the shepherd to be on hand to give assistance if necessary. Where sheep ercise and have been fed properly assistance is seldom needed. However, there is always the danger of abnormal presentation and prompt attention will probably
save the life of both the dam and the lamb. When
Florence $56 t h$, went to H. Inglehart, of Palermo, at Maple Shade Lustre, G. F. Annis, Bowmanville
$\$ 650$. This was the highest priced animal of the sale Ballechin Daisy, W. H. Crowther, Welland J. F. Mitchell, of Burlington, paid $\$ 500$ for Maple Waterloo Lady, Frank Ford, Omagh.......... Shade Nonpareil 10th, a three-year-old heifer. The
females, including mature cows females, including mature cows and a number of heifers
under two years, averaged $\$ 310.34$, while the three males averaged $\$ 370$. Following is a list of the animals purch together with the names and address of their Eclipse, Batty Females. Crimson Vine 13th, W. P. Graham, Shanty Ba Crimson Vine 12th, C. B. Swackhammer, Acto
Fanny B. 71 st, W.H. Pugh, Myrtle Station Crimson Vine 11th, S. Griffin, Acton........... Victoria 2nd, W. P. Graham,
Alice Queen, Geo. B. Smith, Ancaster
 Florence 56 th (Imp.), H. Inglehart, Palermo $\quad . . .650$ Oakville Prince, Jas. Black, Aberfoyle ......


## THE FARMER'S ADVOCATE.

assistance is necessary it is advisable to disinfect the with the intuition of properly looking arter stock
hands and apply carbolized oil to them. It takes should cultivate the art. Thrilty sheep and healthy
practice to beco practice to become adept at rendering assistance. I experience is lacking it is advisable to call in a neighboring she pery weak and require sommetimes the lambs The lamb should e dipped in warm water and then rubbed dry or else wrapped in flannels and placed beside the stove. A draft of the dams milk usually revives a lamb as quickly as anything. If the ewe is very sick
she may not own her offspring and it will be necessar hold her a time or two while the la nib feeds. If the flock is large the shepherd is kept busy day and night during lambing time especially if lambing occurs before the flock goes on grass. Many flock owners breed so
that lambing takes place on in May when the flock is on grass. The mertality is then very small as a rule The lambs will soon learn to pick at hay and grain. These feeds should be in a place accessible to the lambs

## The Pig Crop

The sow that is fed on foots and sufficient grain to keep her in flesh and that has the run of the barnyard
seldom has much trouble at pigging time and as a rule improper ration during the gestation period. Failure to supply feeds containing sufficient mineral matter may result in weak pigs. it a good plan to give the sow access to a copper s and salts may be added to the mixture with beneficia! results.
Have the sow in the farrowing pen a few days before pigging so that she will become accustomed to he stipation should by all weans be avoided some men give the sow a lib ral quantity of straw whil others prefer using a small amount of chaff or cut straw. A raling around the pen projecting out about has saved many pigs from being crushed when hoor has saved many pigs rom being crushed when the sow
lays down. If the sow is restless it is a good plan to remove the pigs as they are born and place them in a basket. If the weather is cold hot bricks in the bottom sow quiets down the pigs may be placed with her. How the we have found it adthe basket the pigs Feed carefully for night. or two but when the sow
comes to her milk she will require heavy feeding, es pecially if the litter is milker get the pigs taking eows milk as soon as dish of milk placed in a pigs will on start sucking them milk. Avoid getting them e prevented. If a run a from the pen can be prois the pigs will then tak exercise which goes a long
way toward warding on ailments to which young
pigs are subject. In the spring of the year and
during the summer the
barnyard makes an itpat place in which young piss can exercise
The colts arrive a lititl later in given to the pregnant mare than to the other classes
of stock as both she and her colt stock as both she and her colt are considered more
valuable. Exercise is essential for the mare but draws, backing, slipping, etc., should be a avoided heavy brood, mare carrying a foal. will take her place in. A the
team during seeding without injury provided the driver eam during seeding without injury provided the driver
is careful. A liberal ration is required if the mare is working stea ily.
A falling away of the muscles at the tailhead and a
filling of the teats a re indications of caling time. Wax forming on the teats is usually a sure indication that the mare will foal in a day or two.
Ioint ill causes the loss of many colts measure is to disinfect the navel as soon as the colt daily until the navely drics. Aisinfectant several ten per cent. solution of carbolic acid nay be uscd. The strong colt soon takes
nourishment and does not give much trouble. The nourishment and does not give much trouble. The
mare should be given two or tlice weks rest and she and
the soltt turned on grass. If the mare is worked the colt should not be allowed to suck while she is very
warm. Although some allow the colt to follow the mares the foal undsluly.
ir

## The man who is interested in his work delights in

seeing the herds and focks increass, thr ve and grow up
under his care. A calf, colt, laml) or pig born on the
farm is entitled to satisfactory rations and commontable quarters. The men who neglect the dams and young
hinder at time of parturition and then fail to give the
neefled attention necessary to develop substance and
necled attention necessary to develop subbstance and
hat and
heal
wobbly legs and tricky ways. More sateason with their $\begin{aligned} & \text { test by Federal authority tulce annually in succession } \\ & \text { or three times semi-annually in succession, without an }\end{aligned}$


Edgar of Dalmen
an State Fair. Sire of the Perth chmmpion bull, 1919 , which sold
neas.
Owned Dy W. W. Scripps, Detroit.
test by Federal authority twice annually in succession
or three times semi-annually in succession reactors having been found. The system adopted
is a practical form of co-operation between federal
state is a practical form of co-operation between federal,
state and municipal governments. Each state makes
a separate agreement with the Federal Government whereby they pay a certain proportion of necessary
costs and provide a part of the compensation given to costs and provide a part of the compensation given th
the owner of a condenned animal. Such a cyster would hardly be feasible in Canada because control
of animal diseases is centralized in the Dominion Health of Animals Branch, Whereas in the Unominion Health
state has its State Veterinarian and in some sach
sases a veterinary department has been established. veterinary department has been established. It is
probable, therefore, that in Canada all the compensation
would have to be paid by the Dominion Government. would have to be paid by the Dominion Government.
While tests are made annally or semi-annually, the
Federal ICovernment part of a herd at any time. This seems to be necessary,
butt of course, frequent tests are by no means desirable.
 unscrupulous breeders not infrequenty " "plug, an
animal with tuberculin so that it will gain this ammun and thus pass the test without reacting. This has led
to a tendency to cover up the disease in miany cases until a mere certificate than an animal has been tested with
a short t time is not alway reliable. This immunity car
be secured for as long priol be secured for as long a period as on or 90 days so can
retests are neessary to secure absolute ancurar
The work of testing accredited herdo The work of testing accredited herds must of course,
always be done by Government officerr, so that one of
the great difficulties of independent thet the great difficulties of independent tuesing it thus done
away with private tests have frequenty hen shown
to be unreliable since cases have been known where wn
(
mpion Angus bull at Mia
hampion Angus bull at Michiga
$\qquad$ owner of a condemned animal. Such a system rupulous veterinarians have filled in areport form with

Tuberculous-Free Herds in Canada and Proposed Legislation.
of Agriculture, stated before a meeting of the Agricultural Committee of the House of Commons that he desita to bring down in the Supplementary Estimates an propriation of $\$ 50,000$ to start the establishment of accredited herds free from tuberculosis in Canada it is appropriate that this question receive some consideration by live stock men. If the Minister succeeds in his Council and brought down to the House for considera tion, we should be prepared to form an intelligent opinion representative of "The barmar's Ang this in mind, a governing their inspections and the standard fictitious figures.
On March 1, 1919, there were as to what changes in inspection and Director-General spected herds would likely follow the adoption in Canada redited herd systerm.
such a system in operation for thited States has had and by agreement tetween Dr. Torrance and the Chief of the Bureau of Animal Industry at Washington, animals from accredited herds in either country may be exported to the other country without inspection or
test for tuberculosis. Here in the opinion of the Veterinary Director-General, credited herd to the Canadian breeder. HoweverWe in Canada have no accredited herds as yet, but must be practically identical with those now in effect According to the United States Act, an accredited. herd is one which has been subiected to an accredited animals command the attention of all lovers of live
stock. Even in the rush of seeding it pays to attend stock. Even in the rush of seeding it pays to attend
to details pertaining to the stock. would be a good thing if all tuberculin tests were that it have been receited of Animals Branch and petitions considerable opposition to such a proposal is naturally a great many herds in Canada that are not yere aull built up and if these were entered in any scheme for accredited herds, their owners would experience confinancial loss. Under an accredited a considerable animal purchased from a herd that was not accredited must be tested and kept separate from the accredited end of that period or days pending a re-test at the herd owner wished to purchase that if an accredited $\$ 500$ and after isolation and restesting the animal for acted he would be forced to stand the loss unless the Erevious owner would sell subject to these conditions, for 60 days would have to berne antinal separately
in the United States and 1,996 pure-bred herds had heerds tested without showing reactors. In herds had been in the United States after about 1,500 accredited herds June. Of 3,210 pure-bred herds and published in herds tested reactors were found in 1,224 pure- bred and the Union is falling Apparently nearly every State in for the eradication of the diseath the Federal policy of about 20 States have passed the necessary legislation.
Progress which just here it would be interesting to note the progress which has been made in the State of Minnesota sary connection with accredited given have no necesshow that progress by individual testing is slow to though nevertheless evident.

| Period | No. Animals <br> Tested | No Reactors | Per Cent. <br> Reactors |
| :---: | :---: | :---: | :---: |
| $1904-10$ | 122,978 | 8,908 | 7.8 <br> $1910-17$ |
| 248,586 | 9,334 | 3.7 |  |

For ten or twelve years the Health of Animals
Branch has conducted the testing of herds culosis where owners signified a willingness to put their herds under the control of the Branch so far as the eradication of this disease is concerned. At present there are 50 herds under control, of which 35 are privately
owned and 15 are owned by Government institutions both provincial and federal. Twelve herds out of the fifty passed the last test without showing any reactorsso
that there are 12 herds in Canada that are now ready that there are 12 herds in Canada that are now ready
to be rated as accredited should this system be put into effect. The response to the offer of government control has not, in the opinion of Dr. Torrance, been as complete as was anticipated, but he recognizes that up to the
present there has been no great inducement to private Compensation is for it. sideration in outlining any scheme for the control of
animal diseases. This, in the case of the United States, is provided jointly by federal, state and municipal govern they wish, but federal assistance is limited by the Act, on the principle that federall, state and municipal
governments and the owner shall each bear 25 per cent. of the loss. When an animal is condemned fer slaughter,
federal, state federal, state and municipal officers jointly give it an
appraised value, based on the value of the animal before
becoming tuberculous appraised value, based on the value of the animal before
becoming tuberculous. Federal compensation is limited to $\$ 25$ for grade animals and $\$ 50$ for pure-breds with the additional provision that such compensation shall
not exceed one-third of the difference between the apnot exceed one-third of the difference between the ap
praised value and the amount recovered in salvage.
Thus, if $\$ 50$ salvage was recovered from the carcass of a pure-bred animal appraised at $\$ 150$, the amount paid by the Federal Government would be limited to $\$ 33.33$ whereas as if the animal were a grade, the Federal
Government would only be liable for $\$ 25$. In any case compensation paid by the Federal The Canadian law prescribed by sections six and seven of the Animal Contagious Disease's Act is more iberal in respect of compensation paid by the Federal
Government. The Canadian law fixes the values which may be placed upon any condemned animal and then provides for the payment of two-thirds these values,

| Kind of Stock | Grades | Pure-bred |
| :--- | :--- | :--- |

Cattle
Sheep and Swine

Record Prices at Calgary Sale. At the Calgary bull sale, on April 9, T. B. Ralphs,
of Calgary, sold a Shorthorn bull of his own breeding for
$\$ 3,800$ at the Calgary sal price ever paid for a bull of any breed at the Calgary sale. The previous high record was
$\$ 3,200$ for a Hereford bull. This is the second highest


Competition in Flock Management Association, held in Toronto in February, James Dougla of Caledonia, the president of the Association, suggeste
that a competition be started among the sheep breeder that a competition be started
similar to the Field Crop Competition which has don so much during the past in Ontario. At the meeting
quality of crops grown in On the idea met with rav. This body of men acted quick ly, and already have worked out rules and regulation
or a competition and drafted a score card for judginy the flocks. A number of flocks have already been entered in the competition but there is no reason why practically
very flock in the Province should not compete for the every lock prizes which the Association have offered.
The Province is divided into twelve districts for the
competition. They are: 1, Carleton and Lanark Counties; 2, Renfrew County; 3, Durham, Northumber Sound and Muskoka; 6, Dufferin and Simcoe; 7, Bruce 0 , Manitoulin Island; 11, Temiskaming, Sudbury and Nipissing District; 12, Algoma, Rainy River and Thunde
Bay Districts. The conditions of entry are that the Bay Districts. The conditions of entry are that the
competitors must be members of the Ontario Sheer Breeders' Association, and must agree to sell their woo through this Association in order that points for wool, and condition. In awarding the prizes, the following fock, dipping, docking, castrating, winter care, lamb orop, type ohen shipped to Guelph for sale. With the exception of the type of ram, the possible score for each of grade or pure-bred, large or small, flocks could enter he competition and the rivalry, which would naturally
be created, should tend toward better care of the flock nd in more modern methods of handling the golden ociation has drafted puts a premium on type, uniformcrop, general conditions, etc. Sheep owners entering o see if improvement can be made. This will tend o caring for the flock so as to produce the best quality
of wool, and to make provision for keeping the fleeces ree from burs and dirt. Lambs will be docked at the his will tend to improve the sheep industry of Al We believe the idea is to secure men to do the scoring astrating, fleece tying, etc., and who are in a position
astre
ond formation in flock manarement particular, valuable Could not a similar competition be inaugurated with
eef cattle, dairy cattle and swine? It would undoubtedly end toward improvement in the herds. Many of the
young men just starting for themselves would enter sucl which they could make use of in their breeding and eeding operations. Individual and group classes in lock and herd competitions open to the breeder o
rade stock, as well as the breeder of pure-breds.

Canada's Live Stock Position Never Better

production must be encouraged along sane lines. There
are no two courses for Canada in this regard. Farmers,
everywhere, if Mr. Arkell has accurately interpretad everywhere, if Mr. Arkell has accurately interpreted
live-stock conditions in Europe, must be made act quainted with the facts and, further, they must is a tremendous responsibility facts. To this end there we are to take advantage of the apparent opportunities The horse industry, for instance, is generally con be veiled in may be found. It is no secret that need industry in Canada has not been particularly flourishing populatity have been other causes than a growing heless true motor vehicles and machinery, it is never ob's comforter's have ginic pessimists and mourniu elegating himg the horse from his former place and epression is not a commo people so that there are still a few good horses in Canada sold on a good market seems to be Mr. Arkell's well men can find a ready market in Great Britain and other countries within the next few years for good, heavy,
clean-limbed horses, provided that in our haste to take adv-limbed horses, provided that in our haste to take scrupulous exploitation. Army horses are being sold considerable numbers it is true, but even the pick
of these are not the type required by large transportation particular market will take the pick of our draft horses in Mr. Arkell's opinion. Horses of good quality have found and doubtless can still find a market there a prices ranging around $f 160$. We have in Canada
considerable quantity of light farm horses which are of type that move rather slowly. Poland offers us narket for horses of this type just as soon as finance
an be stablized. Her requirements of these horse weighing from 1,100 pounds and up, were stated to the o be about 600,000 head. Naturally, or authority, to organize to meet this demand at the moment it confronts ot need The beef situation is interesting to say the least plicated. It is well to acknowledge at the outset, that petition from wave suffered severely because of com having to meet other competition from Brazil, South Africa and New Zealand. Before the war, the Argentine
for example, supplied the British market with a very heavy carcass, steers dressing up to 803 pounds and carcasses and are in excess of those exported from this ve develop it, in spite of the fact that it is dunty if e develop it, in spite of the fact that it is doubtful
we can compete in cost of production with Argentina i. we can compete in cost of production with Argentina. inue in Britain, because bacon and beef have been distributed so generally in England, according to Mr
Arkell, as since the signing of the armistice not a purely temporary condition due to reaction from
food control. British workmen are more favorably situated financially than ever before and the present trend of industrial relations points to a continuance
of these conditions. This being the case it is probald that smaller cuts will be in demand, which will provide a market for 24 to 30 months old steers weighing 1,300
to 1,500 pounds. This condition then, calls for the
most closely applied thought and investigation, to hetermine our most favorable position with regaril to
the meat trade. There is another consideration with regard to bee
that lies with the export of stocker and feeder cattle highly desirahle that we market our cattle well finished possible extent. But one must also consider the fact
he argues, that thousands of live cattle are now being would serve us better if marketed in the same way in
England. If the latter were done, we would possess the England. It the latter were done, we would possess the
advantage of an alternative market for Canadian beef,
condition that would, it is thought, tend to free the a condition that would, it is thought, tend to free the
Canadian farmer from undue control by the large pack-
ers. This is a matter which is dependent, of course,
upon the removal of the British embargo, but strong upon the removal of the British embargo, but strong
efforts are being made in this direction, the success
of which is somewhat problematical as yet. British sentiment is ready to favor trade with Canada and there



sheep, too, can find a ready market, says Mr. Arkel Our egg business is on a sound footing so far a Russia, France Thered. The reduction of poultry in nlar is enormous and there is no egg supply to be antici pated from these countries for some time to come. told that three the do meet the situation? We were now: first, the completion of organization in Canada to supply to the British market what we know it de vestigation further to ascertain facts that require in of some effect ive sort, we need a pubicity campais people; and third, zations to take care of whatever export business to horses. Needless to to us, particularly wit in regar rade with Great Britain and the of Eures ouch as has been sketched abov, we need in Great Britain permanent man who will look after our interests. There should have been one there months ago and he is neede

## THE FARM

## The Rural School Problem

## "ou What is wrong with the rural school?" is a questio

 you have editorially asked in a recent issue. Much is that few are really difficulty, at the present time, is the ansequently is not abing properly invest. gated. The first thing that should be done is to arouse n interest in the whole matter. Get farmers and the wive B. horo gh and complete diagnosis of rural educatio would eveal the fol owing condition:$$
\begin{aligned}
& \text { A lack of idealism. } \\
& \text { Rural education is }
\end{aligned}
$$

t is incomplete.
It s not nat 'e of the soi'
It lacks the organized support of w
A swe ping indictment surely; and one pretty well ustified, as one will see on reading Prof. McCready's said, is to beg n to investigate and discuss, and then to gitate. But we must see clearly what we want befor we must generally. agree upon a forward "knocking Whe must generally. agree upon a forward policy, and venture to make a few general observations for the purpose of provoking thought and discussion. deal will depend upon agriculture's getting a square deal from an economic point of view. If agricultur becomes sufficiently attractive to draw labor and ural population who are not looking elsewhere for their satisfactions, attention will naturally be given to all depopulation is not checked, in fact, if it is not reversed here 1 sn't much hope of mending matters so far a expected to do much in the way of helping themselves. and the e isn't any use in imposing a "system"' upon hrem that they don't want. But, on the other hand in regenerating rural life, and while its efficiency depends pon general economic conditions, it will have a important influence in shaping those conditions. The
relationship between the social life of a community and hat community's institutions is extremely close, and neither one can prosper or deteriorate without reacting
upon the other. "Action and Reaction are equal and In the second place, I would suggest that the Ontario armer do not depend upon the Provincial Departmen
of Education for much in the way of leading and suidance. Officialdom inevitably tends towards conservatism and stagnation, and politicians will not risk
office in order to strike out along new (and for a time Enpopular) lines. We ought to get assistance from the upon them. Better take the matter into our own hand and canvas the whole situation. The women's organiza tions in particular have a keen interest in this question, My own views upon the question of rural education
have been fairly definite for a lone time, but I have not
$\qquad$
$\qquad$



for urban and rural schools include much in common the school work to the children's environment, without detracting at all from the cultural value of such work For example, a city boy might write an essay upon street cars, or solve a mathematical problem connected With the building of a bridge, whereas his country brother
might obtain his practice in composition in writing mbout the growing of oats, and his mathematical train ing in working out the area of a field. The principle here exemplified could be applied in many cases with reat profit
fied the second place, I think we should not be satis and girl opportunities for so-called secondary education equal to those existing in the cities. We ought to have rural high schools. It is said that 98 per cent. of farm boys and girls never get anything more than is protrue it is a standing disgrace to our Canadian civilization. It ought not to be. Every farmer's child who has the ability and desire for a better education than is obtainable in the primary school should be able to get it without
going away from home to attend a city or town school. going away from home to attend a city or town school.
In the third place, it seems to me that we could well have one community centre, where one building would serve many purposes, all of which could be described
broadly by the one word educational. Why not? Why have a great many small buildings devoted to special purposes where one building would serve all?
My idea is-and has been for years-that each rural My idea is-and has been for years-that each rural
community should have a large central building that would serve many purposes, viz.:school work. school work praded secondary kinds. It would provide a large auditorium for a 4. It would provide indoor gymnasium and recre 5. It wo. a community provide room for a community library And, finally
technical instruction was arranged for in the educationa system This. central building should be surrounded by grounds large enough to provide for outdoor games and plots for community picnics, etc. And provision fo borhood (possibly on the grounds themselves) for most or all, of those engaged in carrying on the educationa Now the objection that will be first urged against the plan I have outlined is that of expense. "It will cost too much." I would reply to this objection in three ways: (1) When farming gets what it earns we earns its own cost. (3) The cost is much less than would appear at first glance. Let me elaborate the last such a community as might be served by the institution outlined, the following buildings, as a rule:

Three or four church buildings
Five or six school houses.
Perhaps a township or village hall.
4. Residences or boarding-houses for teachers and

Together with a considerable area of land in scat
Would it be much more expensive to build, equip and tain the numerous smallure than to erect, equip or mainof roofing, for example, on the 10 ar 12 the amount and see what amount of accommodation it would bings, in a three-story edifice with basement! Whald cover cost for heating, plumbing, etc.? There is no need to But per onthis point
But, you will say: We have the small buildings There it is-the problem we going to do with them? Werl, sometime or other we shall have to with the past. Schools, churches, etc., are being built all a change. When we have to move let us move forward, not time, ward. What is more tragic than to see good money harmony with building that is out of date and out of for the past or for the future? I ame? Should we build could get people to see the extraordinaty that if we of co-operative effort (in education as in commerce) and secure a fairly unanimous desire for such a community centre as I have outlined, we should have nore than half the battle fought. "Where there's a
The Ontario

The Ontario Government professes to be ready to going to build anything new, can we not build someuildings whichle, and not add to the number of small Don't invest a dollar in anything of this sort until you Brant Co., Ont W. C. Good.

## Crop Rotations for the Farm.

 becoming more and more recognized of late in all branchesof farming. The breeder of any kind of live stock recognizes the fact that indiscriminate mating of animals more often than not results in very low profits. The man who plants out a young orchard without an idea of how he will take care of it in future years and who
fails to follow recognized principles of successful orchard culture is doomed to failure from the start, just as is the man who buys wantonly much more machinery than balance absolute necessity against the size of his bank account. The same thing holds true exactly in regard
to planning the crops on the farm. It is a well-known to planning the crops on the farm. It is a well-known
fact that one cannot continue for many years to mine the soil with impunity and expect crop yields to increase
or even remain stationary. Soil fertility is a funda mental consideration in any line of farming that depends to any extent upon the growing of crops. The value of of soil fertility, but at the same time the mere fact proof that there is a proper balance of plant food being maintained in the soil. To grow good crops and profit-
sometimes these prest and sametimes these problems are very peculiar. At the always wise to take into account, and certain methods stances. Consequich are common to a great many inpart of the work done by our experimental farms should Consist of attempts to classify various kinds of cropping ment and test over a series of years. A study of crop rotations has long been a part of the work done by the of "The Farmer's Advocate" recently discussed the
question with W. L. Graham, Acting-Assistant Ficld Husbandman at the Central Experimental Farm, Ottawa for at least 15 years and probably for much followed the records would probably show if one took the trouble
to look them up. The one followed time at Ottawa is a three-year rotation consisting of by wheat, oats or barley, seeded and potatoes, followed six pounds of alfalfa, ten pounds of red clover, two sounds of alsike and six pounds of timothy: This
seeding would be considered much too heavy by a great
many farmers, but at the Central Fxperiment


The Double Cutaway Disc is Used Extensive'y on the Central Experimental Farms.

[^0]district we usually find the latter part of June the most cutting of this crop is governed largely by the maturity of the alfalfa and the usual rule of cutting, when about ten per cent. of the alfalfa is in bloom, is probably about as good a rule to follow as any. The sacond
cutting will consist principally of red clover and alfalfa, while the latter will constitute practically all of the third cutting in seasons when this is possible. In 1918 we secured only two cuttings, and the yield was something over three tons per acre. We had 31 acres of hay in this rotation and 9 acres of pasture. The hoed
crop section contained 34 acres of Wisconsin No. 7 corn which averaged 18 tons per acre, while 40 acres of oats averaged 77 bushels per acre. We do not grow
wheat here because we require large quantities of oats for feedine pecause we require large quantities of oats from the "Mane is spread on the hay land in winter, direct from the stables at the rate of 18 tons per acre. Our
land is suited to this method of applying manure as we have no leaching and only a very little flooding. We watch the latter carefully, of course, and govern ourselves accordingly. It might be worth while mentioning that we have never used artificial fertilizers in this Preparation of the Land Preparation of the Land.
Corn land is usually spring plowed just before planting time, although if there was time some of this plow-
ing would be done in the fall. Fall plowing, we were told, is especially desirable for heavy clay soils, as
soils that will puddle, but loams such as are found on the farm at Ottawa should preferably be spring plowed.
Mr. Graham believes that plowing under fresh manure in the more open soils just before planting time, tends
to raise the temperature of the soil somewhat, due to to raise the temperature of the soil somewhat, due to
the fermentation of the manure. Two-furrow plows
drawn by three horses with single plows to open and close, are preferred and considered most economical.
This is not only true for the large farm but for the 100-arre farm as well. After plowing, a soil packer is
used, but for the average farm a heavy land roller will take the place of the packer. Then a double disc is
used, and the cutaway type is very highty prized for
this purpose. In corn land there should be few furrows and these must be well! flled and the cutaway has its
only disadvantage here; it will not do any filling. It is considered to be such an economical tillage implement,
coll however, that a disc of this type or an ordinary disc
with a trailer, would be of value to everyone. After
using the double disc thoroughly, a drag or smoothing

 stand, and if the corn comes up too thickly it can easily
be thinned out with a slant-toothed harrow which will For grain, the corn ground is fall plowed, and seed
systems are being tested out on the different experimental
farms and stations. The same principle of hoed crop farms and stations. The same principle of hoed crops,
grain and hay or pasture apply to all, however, with just enough variation to meet the requirements of various combinations of circumstances. On the ordinary farm, provision must be made for permanent pasture, or the amount of land in hoed crops each year would be tod able. "There are innumerable variations that may be met with on different farms," said Mr. Graham, "but in any case we recommend that the principles of crop
rotation be followed. It may not and frequently is not possible to adopt a definite system of crop rotation at first, but such a system should be kept in mind conhe farm should be brought into a scheme of crop rotation suitable for the purpose. Definite crop rotations are
more economical and profitable in the long run, and for his reason we urge their adoption wherever possible. A three-year rotation is often fourd unsuitable in
Eastern Canada, and in such a contingency it is, of course, advisable to add another year of hay to the on the same farm. If a four-year rotation still leaves too much land for hoed crops, barley, peas, or peas and oats mav be sown on a portion of this part of the rota-
tion. Where this is done, however, care must be taken 0 use some crop which can be harvested early encugh geatest importance in the control of weeds, Two systems can well be combined in the case of a farm
where, we will say, there are 75 acres of arable land, of which 15 acres are badly infested with quack grass ummer-fallowing this 15 acres would be very expensive able to follow a special rotation for this field, leaving the remaining 60 acres to follow a regular four-year
rotation until the quack is cleaned up. This field might devoted to a three-year rotation or barley, roots an peas and oats, the barley and peas and oats coming off alone may often be used, but Mr. Graham is very partial used for hay, as a soiling crop, or as a silage crop. Where farms are weedy it is usually advisable to plant corn in Fills for a few years to permit of cross cultivation
For very weedy farms a soiling crop rotation has been orked out which is outlined later. Coming back for ood advantas and oats, this crop can clover have been killed by the winter, and the rotation hereby upset to a certain extent. Shallow spring grain crops is the best practice before seeding to equal parts by weight of peas and oats at the rate of three is when the peas are forming pods and when the oat are in the milk stage. Golden Vine peas and Banner
or O. A. C. 72 oats are good varieties. Manure should never be app ied directly to th grain crop. It should always be given to the hoed crop
or applied on the new clover seedings as son after the able application at this time, and will stimulate growth

Some Rotations Under Experiment. nicht as well as fotations for special purposes. The
accompanying table shows a variety in rotations experiment. Rotation number one is a three-year at Ottawa. The kinds of grain used and varieties can tastes. It will be noticed that oats appear as the grain in most of the rotations, but the reason for this was year rotation, in which commercial fertilizers and
barnyard manure are both used. This appears to give
better recult then quantities. Rotation number two is the type of rota Root that could be applied to a great many farms corn and other grains some of the oatsif desired, although
in the case of fall wheat some modification would be necessary. Perhaps in that case rotation number four
would prove satisfactory, fall wheat taking the place of
oats in special soiling rotation referred to above, peas and oats Rotation number six is a speciâ rotation for hog lands few are sufficient, perhaps, to show the way by which-a

successful rotation | $\begin{array}{c}\text { Rotation } \\ \text { number }\end{array}$ | $\begin{array}{c}\text { Rotation } \\ \text { year }\end{array}$ | Crop | Note re-treatment of soil |
| :---: | :---: | :---: | :---: | :---: |
| and crop. |  |  |  | Apply manure at the

rate of 18 tons per acre.
Plew in Plow in spring, turning un
der clover and manure.
Sow Wisconsin No. 7 in

Oats $\quad \begin{aligned} & \text { Sow O. A. C. } 72 \text { oats. Seed } \\ & \text { down with } 10 \text { pounds red } \\ & \text { cow }\end{aligned}$ clover, 2 pound alsike, 6
poundsalfalfa and 6 pounds
timothy per acre.

| Rotation number | Rotation year | Crop | Note re-treatment of soi and crop |
| :---: | :---: | :---: | :---: |
| 2 | 1 | Corn | Sow Wisconsin No. 7 in rows. |
|  | 2 | Oats | Sow O. A. C. 72 oats. Seed down with 10 pounds red clover and 12 pounds timothy per acre. |
|  | 3 | Hay | Clover hay. Cut two crops if possible. |
|  | ${ }^{4}$ | Hay | Timothy hay. Plow field shallow and apply manure in early autumn at rate of 24 tons per acre, work in and rib up. |
| 3 | 1 | Mangels | Mangels, Long Red. Sow in drills, using hand seeder. Apply 150 pounds supermuriate of potash, 50 pounds nitrate of soda per acre, and harrow in. |
|  | 2 | Oats | Sow O. A. C. 72 oats, seed down with 8 pounds red clover, 2 pounds alsike and 12 pounds Apply broadcast 100 pounds nitrate of soda just as grain is coming through ground. |
|  | 3 | Hay | Clover hay. Cut two crops if possible. Apply broadcast 100 pounds nitrate of解 |
|  | 4 | Hay | Timothy hay. Apply broadcast 100 lbs . nitrate of soda in the early spring. Apply $71 / 2$ tons manure per acre in early August, plow shallow, top work and rib up late autumn. |Apply manure at rate of

15 tons per acre. Plow inspring, turning under clover42 inches apart, Wisconsin Sow O. A. C. 72 oats.
seed down with 10 pounds red clover, 2 pounds alsike and 5 pounds timothy per
acre. Top dress with barn yard manure in the autumn at rate of 15 tons per acre
Clover hay, cut two crops
if possible. Sow O. A. C. 72 oats.
Seed down with 10 pounds red clover, 2 pounds alsike
and 5 pounds timothy per Clover hay. Cut two crops if possible.
Apply manure at rate of
18 tons per acre. Plow in and manure. Sow Long-
fellow in rows 36 inches apart.
Peas and Sow peas and oats, equal 4 bushels per acre. Seed down with 10 pounds red
clover, 2 pounds alsike, 6 pounds timothy per acre. feed
Clover ha
green feed.

## For grain, seeded down.

Hog runs.
One-third barley at rate
of $31 / 2$ bushels per acre, $2 / 3$
$\qquad$ratein modern farming. We are beyond the age of scraping the top of the earth and s vinging the hoe. We are in the
age of the tractor, the disk plow, the riding cultivator,
the electric light plant and the gasoline engine

Agricullture Must Have A Square Deal

## Editor "The Farmer's Advocate"

In the Census of 1901 the rural population of Canad was 64 per cent. of the whole. In 1911 the rural popula was 5 per cent. of the whole. Why the inmates of the insane asylums are wives and There are twice as many illiterates in the rural as the urban population. Why? There are thousands, yes tens of thousands of continent. Why?
The price of farm produce has been forced to hitherto unheard of figures, only because of scarcity, not because question marks across this page with such questions as above before each one and answer them all with one sentence

Because agriculture is not getting a square deal. When miners, railway employees, when, in short,
ny class of'laborers think they are not getting a square deal they drop their tools, make a spectacular demonstration, demand better conditions and get them.

Farmers for years have been gradually awakening the fact that, as compared even with the ordinary ignorant laborer, they are not getting a square deal,
but when they look around for relief, they find they are but when they look around for relief, they find they are
individuals and wield little or no influence. Instead of combining and stopping production, which for obvious reasons is an impossibility, they struggle on, selling their produce for less than it cost, until the load of debt becomes too great, when they either sell the farm at a
sacrifice or abandon it for better-paid positions as laborers, mechanics or agents. In a mental census of fifty farms in a locality in this county I found that thirty-four farmers have an agency, a little government job, or some side talking
help out the income. Now, I know what I am tall about, for I have made a pretty careful study of all years, and am acquainted with the poorest as well as the best conditions. One of the injustices which the farmer is daily compelled to face is the impression the public necessarily obtains of his prosperity through the
medium of the daily and weekly newspapers, and even the agricultural periodicals. of seizing ever suspectstunity to label the farmer as a heartless profiteer, since about all-they know about country conditions is the prices they have to pay for cases trebled by unnecessary middlemen and greedy transportation companies. Even our farm journals, with doubtless the best intentions, seem more willing to fill their pages with articles showing wonderful outstanding success in some line of farming than with articles giving a true average state of affairs.
course, is done to encourage the spirit of emulation and increase the efficiency of their farmer readers as well as encourage others to take up farming, the impression of the general reading public is even more strengthened any that could be obained from the general press, and thus the case against the farmer strengthened. Still of good, in fact, about all they can to improve the condition of the farmer. Just an instance, however Last winter a nasty, s:urrilous attack on the farmer was made in a long article in one of our dailies by a returned soldier who evidently considered that the parade of the letters V.C. after his signature gave him sufficient prestige to abuse the class which had probably done as much to win the war as he had. I wrote an answer to to show reasonably that the farmer was not the selfish, cowardly ignorant, unpatriotic profiteer the V. C painted him. My answer was never published.
have written articles to newspapers and farm journals showing the necessity of farmers freeing themselve rom the bondage of party and the political mach legis they ever expected to get a square deal from our egis
latures, but in many cases these have been rejected though other articles of an "all's-well" nature have generally found acceptance.
No, the farmer is not getting a "square deal" rom the general reading public. He is without the misrepresented in the press; generally through ignorance of his real position, sometimes through misdirected zeal and optimism of the organs of his profession. Eve when his abuses are aired in these media they only circulate among his
He is not getting a square deal educationally. Why? Because he has not the time nor means to get it.
The laborers of Nova Scotia at a general conference at the capital recently decided on an eight-hour day or labor in the province, and it will not bell to six hours. Are they to be blamed? Are
it they to be considered as commodities to increase the wealth of the nation, or as men and women with the
ight of some hours out of the twenty-four for selfimprovement and culture as well as they whom they
serve? And yet if the farmers of the world worked serve? And yet if the farmers of the world worked an eight-hour day for the next two years the world
would be nearer starvation than it is to-day or ever has been. Hundreds of thousands of farm boys leaving school at 12 to 14 years of age, having a very meagre
knowledge of the three R's, to help out the income on
the farm in
education because of the incessant grind necessary to keep down debt. Millions of farmers and farmer's
wives the wives the world over working 12,14 and even 16 hour a day the greater part of their lives, too tired even newspaper.
another, have reached "per cent. who, by one means o another, have reached "easy street,"' but the 90 per own community, and who produce the world's food at a loss to themselves in the things that make life worth living. No, because the farmer cannot control the price of the product of his labor, and because that price made minimum by organized business, he must spend
longer hours each day in order to keep afloat and sacrifice ducational advantages within the reach of those who are, in many ways, beneath him. What is more, he cannot afford good schools. Over 80 per cent. of those desire for better school and church privilegese of the He is not getting a square deal socially. This is in part due to his want of education, in part to his isolation, in part due to want of time and partly to ridicule and
good-natured contempt which public opinion has built up for him, and part to the fact that he is gas buil too tired to put forth the necessary effort to meet his neighbors socially. True, we could have compulsory attendance at school up to sixteen or eighteen years,
but this cannot be made practical until better conditions surround agriculture, for if farm boys were kent school under present conditions until they had reached the above ages, the country would be in want.
Again, many farmers live a distance from friends ready, cover this distance, often ouecessary to ge roads and not always in pleasant weather, is generally especially after a long day's work, too great to be public life, the opinion the aerage armer does go into gnorant class and fit only to belongs to an uncultured being ignored, until he draws within himself and stay
He is not getting a square deal industrially.
To make as much cear money per day as the average skilled laborer (I am not speaking now of the farm laborer) who works eight hours per day, the average
farmes would have to work sixteen hours. This is not guess work. I can prove it from figures taken from the laborer calls eight hours a day then the average farmer has to work 600 days in a year to gain a living equal to that of the laborer; and not only that, but he, in many
cases, drags his wife and family through the same experience. He is almost the only man on earth who has absolutely
but is merely political lif
He is not getting a square deal commercially: A to his sets the price of his produce regardless of what it costs. And not only this, but everything he buys has been enhanced in cost by every means in the power
of the middlemen and transportation companies beHe is not getting a square polititus cabinet minister told me not long ago in the course of a
discussion similar to the above that the farmer was the "easiest" man the politician had to handle. than any other class of voter. They were always the last to be helped by the Government, and the first to Now why is not the farmer getting a square deal?
Because he is an individual. A small committee of men came into the presence of Lloyd-Gcorge recently
and told him of a few decisions arrived at and made a few demands. Alt ough he felt that the issue mighl.t
mean civil war he fel, too, that the demrands of these
few men would have to the Because these men had a solid wall of a million workers
back of hem.







Improper hitching of

hanitch causing unnecessary
he load as much as one-th
onsumption and makes the
hisher operating makes the

CANADA'S YOUNG FARMERS AND FUTURE LEADERS.

How Can We Keep Our Young People on the Farm?
E
This surely is an age of rapid changes, so rapid that one can scarcely keep himself adjusted to them. of the forest, reared large families, who in turn made But until their newise not far from the parental roof of leaving home. This condition gradually changed as the country became more settled and then, by the time father and mother had reared their family to ages
of usefulness and companionship they found themselves finishing their life as they had begun-alone child had a position here, another a profession some wiere else. Then came the worst war of all ages, and has paid the price tris ge To-day we find ourselves with children in our home who very soon will be our young men and women. Are
they going to slip away from us for the lure of the city they going to slip away from us, for the lure of the city,
as they have been doing? Surely we can do something to make our country home and community life sufficiently least. We that the cannot leave without sorrow at
lake time by the forelock. Children love to be busy, and their activities may as easily be guliced aiong useful channels as otherwise. Very young soon as they are old enough to be trusted with small pis , give them something of their very own-a lamb, pig, hen-anything that will hold them responsible, their personal expenditures. It is surprising how observant ihey become in caring for sta
should learn to live within their means.


Steer-breaking was, at one time, a pleasant and Outside of the home life, the school is the next
important factor. Late years the study of agriculture
has been introduced, hut teo far ic is in it or has decen int roduced, but so far is in its primeval stage xperiments, that take place ats scliool, must be of orminuminty interest, as the study of the soil, various
ertilizers, cropp most suited to that district, and the nupiluction of new varieties tested in school plots So far, farm poople have been working agninst their to learn the cssentials-reading, writithing and arith school that should thacchn thrills that are being wedged in, great thanh tarmh loarly home and school lifec In a


hands say "Satan finds some mischief still for idle hands to do." Oh! Is that why the hours must be
labor filled? I should hope not. We mere social beings. It is our pleasant, we are naturally with each other that lifts us above sordid things and
makes us broal makes us broader and more sympathetic. The young,
however, crave amusement. If they do not find it nowever, crave amusement. If they do not find it at
hime, they hie away to town, where the pool room theatre, etc., beckon. In themselves these may not be so objectionable, but they often to It is the long winter evenings that we must make attractive, so that our developing manhood and womandistrict a literary society really worth while. In our It adhered rigidly to the has proved most satisfactory. put on each week besides other numbers, and some subjects kept one busy a whole week gathering informaOutside amusements, although important, are by people happy. Blequirement in keeping our young who looks back on early life in a home where good books, inspiring conversation, music, good pictures and Elgin Co., Ont. $\qquad$ Farmer's Wife.

Some Reasons Why the Boys Leave the Farm.

## Epitor "The Farmer's Abvocit

We hear many reasons given for the bous leavirg the farm. Sometimes the Government is expected to help stem the tide of rural depopulation, but in the alva deation in keeping his sons on the farm. Farm work not stay boys brought up under good and profitable farming onditions, raising proper crops and good stock larming on the farm, while those on unprofitable farms, with poor crops and poor stock move to the city, This goes to show that the average boy does not leave the farm because he is afraid of hard work and good pay socause he is afraid of hard work and no pay Sometimes we hear of the boys leaving the farm because they get no chance to make anything for them-
selves but all goes into the parental pocketbook. This is too often the case, but with a farm growing good crops and good live stock, there is something wrong either with the work or the management if a young man
cannot get as much at home as he can get from his cannot get as much at home as he can get from his
neighbors. Again, other boys become dissatisfied because of lack of labor-saying conveniences, both on the
farm and in the home. Their chores are twice as har to do as their neighbor's, and they see their mothe working under endless dificulties that a small investchildhoood by their mother to be dissatisfied with the farm. They are told about the hard work and disagree-
able conditions on the farm and of course, conclude that The writer tried a plan with a little brother that war. As it was he answered his country's call and is
wanong those who are not coming back At alout eleven years of age he was allowed a hen that layed an egg of a different color from the rest and from that was to get a
horse. When he sold enough eggs to pay for it he pig and bought a calf. Two years later his calf was
a good steer and he sold it and bought a colt. In this a good steer and he sold it and bought a colt. In this
way a boy's interest is centred on all the different
lines of lines of stock and his remuneration increases as he
becomes more useful.

A Partnership on the Farm
Editor "The Farmer's Advocate": How of and Son in Partnership." I can't say that annot see the difference in father and son being partners ages, for an old and a young man's ideas of working greement and, therefore, making partnership an Insatisfactory ship to sail in.
If it is the wish of father and son to become partners, why not take an inventory of stock and implements,
sell the son half interest, divide the profits equally, and
let the con intil he has his half of stock and implements paid for?

$\qquad$


AUTOMOBILES, FARM MOTORS AND FARM MACHINERY.
or axe head lay the hatchet or axe in the oven for fiftee minutes to an hour, depending upon the heat of the

If the car owner should have occasion to dismantl the springs he should take the opportunity to spread a lubricant over the leaves. A good one is a mixture of
paraffin and flake graphite. The wax may be had by paraffin and flake graph candles and when in the molten
melting a few ordinary conditio
stirred.
If there was some putty left after putting in that window pane it can ee saved by wrapping it in tough
brown paper and placing it in a fruit jar or covered can filled with water. A tight cover is essential for whatever containery can be kept soft and pliable indefiof the water. Putty can will be ready for use when needed
nitely in this way, and will be In making an ordinary connection to a battery terminal the stripped end of the wire should be wound around the is tightened it will be turned to the right and with the wire wound in the same direction there is a tendency for it to wrap all the tighter around the post. When the wire is wrapped the other way
tends to unwrap when the screw is tightened.

No one cares to think much about being towed home, but not to make a bad matter worse, some thought should be given this subject. In attaching the rope which the axle, which is wrong. The rope should be fastened to one of the front portions of the frame, so that the pull comes on the chassis. The same thing applies to the
car doing the towing, except that the rope should be fastened to some part of the rear frame

## Tractor Ratings

| Prior to tractor the ratings. were all un It seems th over-rated, for actual w instances it get the trac particular power lost being omit highly desir on a rationa be accurate not different would profit practice of the fact in $c$ companies policy that for many o mainder of <br> We will market for carefully; h of various one is the several of garding fou him. |  |  |  | or kerosene out tractor rated, they proportion. many cases, ed capacity <br> In some companies alty of this tion of the he drawbar point it is be placed hich would coast, and or interests tings. The e emphasize the reliable adopt any A solution in the re- <br> or is in the the problem secifications ecide which esent below selected restrongly to |
| :---: | :---: | :---: | :---: | :---: |
| Rating | Plows Recommended | Pounds Pull at Drawbar | $\begin{gathered} \text { Speed } \\ \text { Miles } \\ \text { per Hour } \end{gathered}$ | Drawbar H.-P. they should Develop from Figures Given |
| $\begin{aligned} & \text { A } 10-18 \\ & \text { B } 10-18 \\ & \text { C } 10-20 \\ & \text { D } 10-20 \end{aligned}$ | 2 2 3 3 | $\begin{array}{r} 900 \\ 1,800 \\ 1,800 \\ 2,650 \end{array}$ | $23 / 4$ $21 / 3$ $21 / 2$ 2 | $\begin{aligned} & 62-5 \\ & 111-5 \\ & 12 \\ & 142-15 \end{aligned}$ |

The first two in the above list are in a class of 10-18
(meaning 10 horse-power at the drawbar and 18 at the
belt), the last two are in a class of $10-20$ engines. However, all four are advertised as 10 horse-power machines
at the drawbar, and they are all in one class. Let us examine each, and from the data given in their respective
cases see what can be developed. We know that the
drawhar horse-power drawhar horse-power equals the pull in pounds multi-
plied by the distance travelled in feet per minute, and
the product of these two factors divided by 33,000 (the

and it is rated as 10 drawbar horse-power. We have
taten the advertised specifcations. Something is
wrong Now if you will examine B, C and D, in exactly the same way you will find that they respectively are
able to develop $111.5 ; 12$; and $142-5$ drawbar horse power. In every instance they exceed their rating and
therefore, may be reasonably expected to stive sants.

If that does not mean chaos and confusion I would
 We woild respectrully suygest that since tractors have that soma are ueeng sold in large number in this country interests of thiorm reliathod on rating be adopted in the interests of the farme
They are willing and anxious to co-operate, and one need go no further than the record attendances at thei instruction schools to realize this is true. Every on the belt and at the drawbar. The majority probably have the necessary equipment now in the Agricultural engineering departments of the agricultural colleges The law governing the sale of tractors would demand and if the results of the test showed that it came to its rating then a stamp of approval or guarantee,
call it what you like, would be attached to all contracts involving the sale of the said type and size tractor The plan is simple and would work as follows: The that they wanted their 10-20 tractor tested. A qualified official would go down to the warehouse or car, select any engine at random, noting its serial number. The or rejected as the case might be. In a test of this kind tractor A in our list would receive no stamp of approval H.P., and why not? The other three machines, B government inspected $10-20$ tractors. All other sizes would be dealt with in a similar way. Provincial laws
would have to be uniform: in fact, there should be one would have to be uniform; in fact, there should be one
rating for Canada or even North America. A company making an engine that could not come up to the standar their machine, and second "to shuffle off this morta coil." Much more might be written about the tests,
but enough has been said for the present, and there seems to be no reason why the details cannot be arranged How many plows will the engine pull? You migh just as well ask how lohg will it last? No matter how conscientious we are we cannot answer your question
unless we know the soil conditions, etc. The solution in this case is to have the country charted according to
the different kinds of soils. A 14-inch plow may require the different kinds of soils. A 14 -inch plow may require
a pull of 200 to 1,600 pounds, depending upon the soil conditions.
Plowing matches are held at many different places, and they offer an opportunity for testing the pull re-
quired by the plows. County agents could take the quired by the plows. in ounty agents could take the in from a certain district that since the average drawba
pull in breaking in that district is 700 pounds, that he pull in breaking in that district is 700 pounds, that he
could with any 10 D.B. H.-P. tractor in the list above, except the first, handle two 14 -inch plows with reason-
able hope of success. There would be no hit or miss. under the present system. in the United of a recent writer on the very good: "There is no such thing as a best tractor any more than there is the
best breed of hogs, or the best breed of cattle, or the best breed of dogs. The reason is perfectly obvious
when one stops to ponder. If there were such things as a standard soil, a standard climate, a standard
topography and a standard type of operator, then we might be able to develop a standard best kind of tractor. and does well. He is pleased with his results. Another
man buys exactly the same make of machine, works man buys exactly the same make of machine, works
it on a similar farm and makes a flat failure. Where should the blame or credit be applied, to the man or to
the machine? In the case of failure we may blame the machine, but if we do, then we should also credit
the success to the machine. Obviously, however, both the success and the failure were due one may take his choice, but the combination." In conclusion, let us say that the scrub tractor should follow the scrub bull or the scrub stallion out of the an examining board because they did not come up to
the approved standard. Therefore, let us have all makes that are offered for sale tested and approved.
Let us buy from reliable companies who are in
tractors have proved their ability to do what is claimed or them. We look forward to such a step being taken long step outlined, and feel sure that it would be a of avoiding many disputes, It would be the means satisfied owners-although we have a large number at the present time. Plowing is "the peak load in our agricultural work," and we need good machinery to carry this load.-J. MacGregor Smith, University of

## THE DAIRY.

## Dairy School Examination Results

 at O.A. CThe attendance at the various courses in darying during the past winter at the O. A. C., Guelph, has been ood-nearly up to pre-war numbers. The number egistered was: 43 in Factory Courses; 7, Farm Dairy; , Cow-testing; 14, Ice-cream and Soft Cheese Making

The following is the proficiency list of the Factory Course: 1, W. Colwell; 2, H. Smallield: 3, A. P Clark; 4, L. Luther; 5, H. Whillans; 6, E. Culham; , J. Usher; 8, G. Chamberlain; 8, G. Whiteside; 10, N. Orth; 11, Miss H. Summers; 12, A. Prosser. 13. H. S. Howse; 14, D. Beattie; 14, W. Lennox; 16, Wm Pappa; 17, W. W. MacKenzie; 18, R. Cunningham 19, H. Dalley; 20, A. Todd; 21; D. Miller; 22, A. Cunnigham; 23, L. Shoemaker; 24, H. Orr; 25, E. Webb 26, R. MacNabb; 27, Miss E. Dobson; 28, R. Waugh 29, O. S. Auger: 30, V. A. Stewart: 31, F 'E Gray 32, D. Richardson; 33, A. Robidoux: (1) 34, M. Yankoo (2) 35, L, Rubinoff; (3) 36, R. R. Roy

Note-1, 2, and 3 , will be required to pass supple: mental examination in Chemistry and Bacteriology.

The class in Cow-testing was one of the largest and most enthusiastic ever held at the College, indicating he great interest shown by cow-owners in this branch of dairying. The Dairy Department of the College has been unable to supply the demand for supervisors official Tests during the past winter, even though a taff of about forty men has been employed. The class strain for the present.
train for the present.
1, Wm. Miles; 2, Fred Schell. 3 A Iist for Cow-testers: Shore; 5, W. B. Silcox; 6, M. Davis; 7, E. L. Tuttle A. S. E. Keillor; 8, J. E. Shaver; 10, L. Garratt; 10, A. Manto; 12, W. L. Thompson; 13, R. J. Bain; 14, Ficht 17 , W. Wardell; 19 , A. Barratt; 20, S. R. Ficht;
21, M. Austin; 22, M. Disher; 22, Jas. Wood; 24, W. 21, M. Austin; 22, M. Disher; 22, Jas. Wood; 24, W.
Lennox; 25, A. V. Hunter; 26, B. Cox; 27, J. Snyder; Lennox; 25,
Through the kindness of friends of the Dairy Schoo cash prizes to the value of $\$ 125$ were offered to com Judging Ayrshire Cattle: 1, H. Orr, Ramsy ville; 2, R. Waugh, Moosejaw, Sask.; 3. A. Todd Hurdman's Bridge; 2, F. E. Gray, Laurel: 3 Geo Whiteside, Guelph. Judging Jerseys: 1, R, Cun ningham, Tara; 2 , H. Smallfield, Renfrew; ; ,, D. Rich
ardson, Hartshorn, Alta. MAKING ChEDAR 1, H. Dalley, Simcoe; 2, A. P. Clark, Tregaria Sask MAKing BuTter: 1, W. Colweli, Parkhill; 2, D. Beattie
 H. Summers, Winchester, and A. Todd, Brantford equal; ${ }^{\text {2 }}$, E Hell; 2 H. Smallfield; 3 , A. P. Clark.

## Griffith Sale of Holsteins.

## Considering there were very few officially tested cows

 selling in J. E. Griffiths dispersion sale of Holsteins were pleasing. Of the 23 head catalogued almost dozen were still under breeding age and this of course This instrumental in keeping the general average down. figures and made an average of sale sold above three Emery Jewel Hengerveld, fetched $\$ 200$. Therd bun a number of choice grade Holsteins sold directly after the pure-breds and these sold exceptionally well. Th lots selling for $\$ 100$ and over were as follonames of the buyers in each case are also given:
Emery Jewel Hengerveld, L. McEwen, Weston.. $\$ 200.00$ Olive Schuiling Posch, M. A. Ramsay, Sharon............................................ Edgeley ........................................ 142.50 Princess of Weston, H. Banard, Downsview......... 182.50 Princess or mity De Kol, J. J. Fox, Guelph.....
Nora Calame
Baroness Suirk, E. H. Anderson, Weston..... Daisy Calamity Suirk, E. H. Anderson..................
Beauty Princess Hengerveld, F. W. Pearson Beauty Pri
Weston
Abbekerk P 200.00
2000
$\begin{array}{r}\text { Take Tractor A in the list and work it out and you will find that: } \\ 900 \text { (Pull in pounds) } \mathrm{X} 242(23 / 4 \text { miles per hour }=242 \text { feet per minute) } \\ \hline\end{array}$

Eighty-one Holsteins Average $\$ 221$ at Belleville.
The ninth annual Belleville District Holstein Breeders' sale held in the city of Belleville, on Wednesday, April 2, proved once more a complete success. Of the
ninety-four lots catalogued theré were upwards head that should never have been accepted by the Club, but the remaining numbers were all good material, wel
bred and well brought out. The proceeds of the day totalled $\$ 19,035$. Thirteen calves sold below the $\$ 100$ mark, and the remaining eighty-one animals made the splendid average of $\$ 221$. The sixty-one females averaged $\$ 228.50$, and the twenty young males made a general average of \$197.75. The consignment of E. B. day. The fiomfield, made the highest average of the months-old son of Champion Echo Sylvia Pontiac, from a non-tested daughter of King Segis Alcartra Spofford, brought Mr. Purtelle \$1,060, the top price for the day. Sylvia Alcartra Posch, a three-year-old
heifer from the same herd, made the top for females at \$925. This heifer was also a non-tested daughter of
King Segis Alcartra Spofford. Among the consignors were F. Hillman, C. Baker, L. Parr, E. C. Chapman J. A. Caskey, J. E. Huff \& Son, B. Mallory, A. E. Parks, E. E. Redner, F. Denyes, E. B. Purtelle, P. Cave, Nelson Bros., B. E. Hagerman, W. A. Hubbs, C. Mallory, B. Hoskin, and W. F. Fallis. The sale was managed Following is a list of the animals selling for $\$ 100$ and purchasers:

Females.
Clara Pontiac Keyes, Herman Pyne, Ergin
Regina De Kol Victoria, Percy Mott, Belleville. Regina De Kol Victoria, Percy Mott, Bencevlle
Lady Hermes Eclipse, W. J. Hubbs, Rednersville Miss Laura De Kol, Jas. W. Campbell, Hollowa Princess Trimonia Belle, M. Shea, Stirling.
Patti Bell De Kol, R. M. Holtby, Port Perry Isabell May Burke, Jas. Harry, Trenton 1 ..........
Queen Isabelle De Koi, J. T. O'Connell, Pete boro Keyes Segis Walker Pietertje 3rd, A. W. Churchiil, Florananoque Dell Dais, So. N. Fluke, Foxbouro...
Floral Hill Jennie Keyes, Peter Van Allen, Foxboro
Dolly
Hengerveld De Koll, S. Eliliott. Flossie Korndyke Hengerveld, J. T. O'Connell. Triumph Mercena Hengerveld, Peter Van Allen.
Ledy May Pontiac, Geo. Johnston, Napance Ledy, hay Pontiac, Geo. Johnston, Nap
Pontiac Lady Sllva, S. J. Martin, Picto
Una Pietertje Hermes, S. J. Martin... Una Pietertje Herm
Gooda Plus Wayne,
Gooda Plus Wayne, H. B. Py . Pye.....in
Echo De Kol's Twin, J. T. O'Connell.
Echa De Kols Twin, J. T.
Laura Ecco Keyes, J. Harry
Nellie Posch Pietertje, B.
L. Redner, Redner

De Kol Houwtje Ormsby, Geo. W. Kingsley
March Ormsby De Kol, W. E. McKillican, Max
Pontiac Ormsty Maid, B. Perry, Wooler.
Katie Segis Houwtie C. Hall Latta
Francy Spofford Ormsby, W. E. Wood, Bloom-
O. U. Johannana Pietertje, J. Ti O Connell,
Burke Bos De Kol, E. Purtelie, Bloomfield
Ceraldine Bee

Geraldine Buster, H. Fitzzerald, Beolleville.
Katie Ormsby, C. R. W. Proctor, Brighton
Flossie Burke De Kol, E. Miller,' Picton
May Segis Korndyke. I. W. Harrington Brig May Segis Korndyke, J. W. Harrington, Brighton
Echo Pauline Sylvia 2nd, J. L. Hennessy, Cod Hengerveld Flake De Kol, W. E. Mc Killican
Lucy De Kol Faforit, J. N. Curriston, Brantford Rose Echo Segis, S. Ross, Brighton Sylvia Alcartra Posch, G. H. Wilmont, Kingston. Countess Ink Walker, P. S. Van Vlack, Napanee
De Kol Girl pietertic, M. R. Anderson, Belleville Ada Walker Pietertic, Ed. Miller..

Daisy Prietertje Korndyke 2ul, Gco. Kingston, Daisy Piritertje

Ivy De Kol Hengerveld, (Geo kingston
Mollie Pietertje Hengerveld,
Cobourg ...
Rose Beots, H. Thompson, Napance
Nellie Beets Posch, Peter Van Allen
Helena Butter Girl Keyen Helena May Butter Girl, J. Vipon
Flora De Kol Iosco, S. N. Fluke
Gypsie De Kol Queen, E. Osborne
Pontiac Echo Queen, F. R. Mallory, Frankion
Pontiac Mot Echo, F. R. Mallory
Lulu Posch Ccalanity, Clarence Vermily

Males.
Brighton King Alcartra, R. M. Holtb Brighton King Alcartra, R. M. Holtby
Admiral Beets Posch, A. Moor, Plainfield Glenhurst King Keyes, H. Pyne
Glenhurst Walker Keyes M. She Count Aaggie of Floral, G. H. Wilmont, Kingston. Bull, E. J. Phillips, Belleville.
Bull, Peter Goldsmith
Bull, Peter Goldsmith, Belleville
Eee De Kol Alcartra, C. Tucker, Harold
Bull, H. B. Pyne
Count Johanna Paul, J. Rainie, Harold
Baron Segis Korndyke, Fa. . Parrott, Belleville.
Peter De Kol Korndyke. A. W,
Peter De Kol Korndyke, A. W. Anderson, Belle
Ser Echo Alcartra, W. W. Dracup, Harold.... Segis Acartra Pietertje, H. Chambers, Napanee I.
King Korndyke Pontiac, W. A. Hubbs, Bloomfield.
Count Hengerveld Po , way $a$ 有
Sir Keyes Clyde, W. E. Hartlett, Foxbo
Content Paul Calamity, Wm. Clark, Belleville Nigger Vale, W. H. Hodgen, Latata
Paul Vale, D. Anderson, Frankford.

The Menie District Ayrshire Sale.
$\qquad$ Breeders' Club heta a sale of Ayrshire cattle of different ages at Campbellford, when twenty-five head went under the hammer. The class of stock consigned to the sale was by rimars ascedit to the breed. Ihe animals were very poorly fitted and consequently did more liberal with the feed and put their catle in been dition the average price at which the canimals sold would have been greatly increased. As it was sold two- and three-year-old cows went considerably under the $\$ 100$ mark. In fact, from $\$ 60$ to $\$ 90$ was the ruling pri e for the young stuff. A glance through the cata-
logue showed that the animals were well bred cat such breeding as Hillside, Peter Pan, Springbank Monarch Springhill Cashier, etc., being represented. Hunter Bros., of Grimsby, purchased many of the good milking
cows. The sale totalled $\$ 4,335$. The top-priced animat was Oakland Belleflower, an eight-year-old cow, which
 about due to freshen to Springbank Monarch. As a junior two-year-old she qualififed in the R.O.P. with
9,000 lbs. milk. Following is a list of the animals 9,000 lis. milk. Following is a list of the animals
selling for $\$ 100$ and over together with the names and

| Hover-a-Blink, W. L. Tummon, Crookston |
| :--- |
| Woodland Oueen. I. B. Ferrisis, Campbellford |
| 150 | Oakland Juno Wm. Paul Peterboro Peter, Louis Locke, Campbellford

Oakland Kirsty, Hunter Bros., Grims
Lena 2nd W. Mason, Port Hope
Lena 2nd, W. E. Mason, Port Hope.
Daisy 3rd, Hunter Bros
Oakland Kate, Hunter Bros
Oakland Kate, Hunter Bros
Potter's White Rose 2nd

ford...................... | Sarah 2nd, Geo. McComb, Campbellford. | 100 |
| :--- | :--- |
| Highland Belle, Hunter Bros.... | 135 |
| Ond |  | Oakland Belleflowert Hunter...... Bros

Humeshaugh Snowdrop 2nd
Campbellford
Humeshaugh 2nd, A. E. McCook,
Howbil 3rd, Dr. A. I. Fyle, Amelins


## The City Milk Supply

Dairymen supplying the cities with milk are often times unjustly criticized by their customers who do not
understand the problems which have to with in producing and delivering to the city man's doo a quart of milk. It is easy to find fault if the milk looks a little blue, or is somewhat thinner than the con-
sumer would like. Delivering tainted with a little sediment in the bottom of the bor milk unpardonable sins of omission. No dairyman will intentionally sell tainted or dirty milk. Accidents will happen in the best regulated dairies, and it is not an unknown occurrence for contamination to take place
after the milk has been left on the doorstep. Before undue criticism, is nade the facts and circumstances
should be investirated should be investigated. Provincial and city aumsthances
have enacted laws governing the quality of thorites products offered to the public. However, in passing judgnent on individual offenders, of the law lassing has not always been tempered with mercy especially
in cases of a dairynan's first offence with milk not
$\qquad$
$\qquad$ "possiblity of cerror with the most mareful there is consequently, in justice to the milk producer three
samples should be taken and one tested by the city samples shoud
the other the the owner, and the third tey a disisterested.
party. Then, too, sampling one ether fair as circumstancesover which the producer has

associations might advisedly take this order that justice be done to their members. Possibly the greatest complaint is of milk being low in fat. Thesibly
quality is usually judged by the denth quality is usually judged by the depth of cream on the
top of the bottle. However, the visible cren true indication of quality, as there will be less not a bottle of new milk than on milk twelve hours old. The Babcock testand a lactometer reading are reliable means of ascertaining the quality of milk and cream and of
finding out whether or not the milk has The two should be used together. Because watered. tests low is no indication that water Because the milk
the lactic fuid been added to the lactic fluid. Consumers should disabuse their minds of the idea that blue-looking milk is the result of the
pump being handy to the milk can. The endivid pump being handy to the milk can. The individuality
and breed of the herd influences the a large flow of milk is not as likely to test as high as as ong giving a more moderate flow. However, there are very few herds to-day that test below the standard set by the cities. It is quite possible for the test to vary accord-
ing to the number of fresh cows in the herrd ing to the number of fresh cows in the herd, and also
there might be a slight variation occasionally due to cows being frightened or to physiological conditions. On this account it would be much fairer, and more accurate information regarding the quality of milk which
dairymen are delivering would be ascertained dairymen are delivering would be ascertained, if a
number of samples were tested rather than convicting on the results of a single sample.
It is important from a health standpoint that' the
milk be clean and pure. Disease enidenis milk be clean and pure. Disease epidemics have in
times past resulted from contaminated present rules governing the milk supply of the city are
fairly strict fairly strict and are adhered to by the dairymen. Every precaution is taken to supply the customers with milk and of butter-fat content. It is standpoint of cleanlines milk sweet during the summer than in the winter and this difficulty may be accentuated this year owing to lack of ice. Such things as wiping the flank and udder with a damp cloth, straining the milk through several
thicknesses of cheesecloth, then removing fluid from the stable as soon as drawn and cooling tactic a non-contaminated atmosphere are practices which should be followed on every dairy. If these things are done a sediment test would show the milk to be almos it not quite free fom dirt, and there would be an absenc There is a good deal of work entailed in producing
clean milk, of which the average city person know little about. The same is true in the production of butter out of proportion to the price of feed while high, is not equipment. Back of the quart of milk, or the pound of butter and cheese, is the cow which, even though she be a grade, commands a high price on the market to cow uses in the manufacture of milk of feed which the must also be reckoned with. ${ }^{\text {a }}$ The farmer who must in most cases fill the threefold task of being proprietor, manager and laborer, is entitled to as much remuneration cases does not represent the farmer has invested in his farm stock and implements It is unfortunate that even with the present prices of dairy produce, the man behind the cow does not realize commercial husinesvidend which comes to the man in for butter, thirty cents a pound sixty-five cents a pound cents a quart for milk, these produrctheese, the cheape
foods which find their way to the city mar's table.

The Willowbanks Sale of Holsteins Dunnville is the country surrounding the town of indications point porticularly noted as a dairy district, are gaining in favor with farmers of that vicinity. On April 5, C. V. Robbins disposed of his registered herd of Holsteins, in the town of Dunnville, at very rethe entire sale, and the animals were in excellent coll dition. The twenty-six animals sold, including number of young calves and aged cows, realized $84,750.50$. The highest price was $\$ 490$, paid by Loga Bros., of Dunnville, for the young cow, Pet Lady o Millowbanks, a cow of outstanding quality and with a Almeda Segis, ane extremely ty followed by Lakeview She went to the bid of $\$ 150$ from John Moote, of Can ${ }_{8}$ boro. Dorothy Butter Girl, another young cow, brought $\$ 100$. The following is a list of the a nimalas selling for

## Elndale Bess Princess, Lakeview Farm, Bronte $\quad \$ 195$

D. nden wood Faforit Belle, John Moote, Canboro ${ }^{250}$
Dora Butter Girl, Haist \& Ecker, Jordan Sta
400 Lekeady of Willowbanks, Logan Bros., Dunnville ... 49 Canary Paulineda Qeegis, John Moote
Josie IRewund Poen Bros. Josie Bewunde Pocch, '. S. S. Moote. Attercliffe
Lyndenwood Countess, J . Root, Humberstone
ewel Mechthilde of Willowbanks, 380
Burnaby Lakeview Belle, Lakeview Farm.
Queen Anne Teake Lady, G. Nichols, Dunnvit Spinks August Daisy, O, Durnam, Smithville.
Willowbanks Cassie Korndyke R Willowbanks Cassie Korndyke, R. Davis, Burnaby. ${ }^{225}$
Spinks.anks Hengerveld Lady, J. Root
Sinter Boy Walker, Haist \& Ecker
110

## POULTRY

| Crop-bound Poultry. <br> Editor "The Farmer's Advocate": A recent query in your columns in regard to crop bound poultry in which your correspondent admit his inability to place the cause of the cosprion makes $m$ trouble in question might be of interest to some of your readers <br> The occurrence happened and possibilities of the poultry character. That never happened again in any degree whatever proves |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## The sitution aditied



A Well-equipped Incubator Cellar
ne of the lot treated with iquid tended to further sw crop and so finished the bird. on a soft diet to which I added a bit of stimulant in the plan - no matter what the type of machine- is to shape of gentian and red pepper. The operation is
Very simpleand casily performed. Have someone hold the
 itserf, just sufficiently large enough to pass your fore-
fonger.
Bee sure that your
finger-nail is cut so short
 our finger and minpuation Il posshte, and then insern

 the outer skin; each of course, independent of the other.
Put albout threa stitches to each indisisn.
Cive the ird protection from cold and dratts and feed on soft, genlly stimulating foods for about nine days after.
Cartecton Co, Ont.
Mes. W. W. Hoprins.

## Incubation





Fuote in the following paragraphs: order to secure a
the sitter. Some farmers do not set a hen until one becones necessitates late chicks. overcome by making a new nest for the broody hen.
Get a box about twelve inches square and six inches deep; put some earth, or an overturned sod in the bottom,
taking care to have the corners very full, so that no taking care to have the corners very full, so that no
eggs can roll out from the hen and get chilled; next, put on about two inches of straw or chaff; and then put pen where nothing can disturb the hen, and put her on after dark. Feed and water must be within easy reach and a dust bath should also be convenient. If the hen he eggs under her. In our experience we get 90 pe cent. of the hens to sit by following this methad.
It should be remembered that the hen will be in iter condition if dusted with insect powder when set and also a few days before the hatch comes off. This will
usually keep the lice in check, especially if some tansy or mint leaves are used in making the nest.

During recent years many incubator experiment
have been conducted here, as well as at other colleges,
and some progress had been made. It is our purpose at this time, not so much to go into the details of these can be used by the average person.
Selecting an Incubator. There are many makes
of incubators on the market that do fairly good work of incubators on the market that do fairly good work;
they are not perfect, nor have they the hatching power hatch eggs any day of the year, and by their use eggs can be incubated in large numbers. They do not get balky and cease hatching as some hens do-that is,
unless the operator fails to do his part. Commercially they are a necessity. To the prospective buyer
would suggest the purchasing of a well-built machine one that is double cased, and that is easily cleaned, and We do not know which is the best incubator made.

## Holsteins

 district icinity. Onhroughou
cent con-
realized
Lady of
d with a
of Can-
brought
Iling for

Operating The Machine
We have obtained the best average hatches and the best chicks, other things being equal, operating the mometer resting on the top of an egg; not at the side throughout the hatch. We are particular to set clean eggs, usually not over two days old, which have been The eggs are best put in the machine in the morning. then the gradual heating of the eggs goes steadily is not too hot or too cold. Moisture the machine the start; we are more particular about moisture the ventilation is given unthan at any other period. No cubation. Our best hatches in nearly all instances are of moisture, and little or no ventilation up to thenty day. After this period the eggs need plenty of air and the ventilators opened gradually until wide open at
hatching time. The hatch appears to be made or lost during the first week of incubation. in the nursery

HORTICULTURE
An Important Experiment.
Orchardists will have recognized, no doubt, a notice published in "The Farmer's Advocate," namely the Ontario spray calendar in the issue of March 27, and the issue of Bordeaux mixture as a fungicide and places confidence in arsenate of lime as an insecticide. The tario authorities, who stand sponsor for the Ontario of lime unqualifiedly. There is a considerable arsenate in price between arsenate of lead and arsenate of lime he latter being the cheaper, but cases of burning are not unknown and some fear is entertained that injury to foliage might result if it were not properly used.
However, in order to ascertain the adaptability of the same as in the peninsular province, the Fruit Branch of the Ontario Department of Agriculture is testing out the recommendations of the two spray calendars
in the Gilbertson orchard, near Simcoe. On one block in the orchard sprays will be administered Scotia spray calendar; in another block, similar in character and in varieties of fruit, the Ontario
spray calendar will be followed. In still another block the various dust mixtures will be given a thorough test
This experiment should be closely followed by al growers, as the results will no doubt have considerable ure.

## FARM BULLETIN.

The Farmer's Generosity

## Almost every day we see large advertisements in the

 newspapers supporting the present tariff. In fact, themanufacturers consider the tariff so perfect that they think any attempt to change it would be like ""painting the lily." They try to prove in their advertising that tariff. Indeed, they even quote the price of agricultura implements in the various border towns of Canada and the United States, and these prices seem to show that he Canadian manufacturer is not taking advantage o protection to raise his "prices. And then to clinch the
argument they ask: "Under free trade where will the evenue come from?
rom, viz., the property and income revenue can come from, viz., the property and income of the people. A and income, and then imposes a low rate on the poor and a high rate on the wealthy. The tariff is an unjust tax, for it is too hard on the poor. A man may own nothing in the world, he may have to buy food and Qill have to pay a tax on these necessities, Ind yet h $t$ seemis to be a case of taxing a man's debts rather than The farmer is asked to support the present tariff and inland revenue taxes to help reconstruction or prosperity armer's generoscuse. It is presuming too much on the he buys for the sake of helping someone else to become prosperous. Canadian manufacturers have proven almost all markets of the world except here in Cans Why not make them compete in Canada? Farmers ar asking for fair play, not for favors. Farm products in normal times obtain no protection, hence manufacturer be met by a just method of direct taxation should manufacturers do not like the idea of lowering the prices to the United States level, and at the same time having new income taxes to pay. No wonder they as in alarm: "Under free trade where will the revenue Ontario Co., Ont. Nelson McDowell.

## Parliament Keeps Itself Busy Fanning the Wind.

## ERY comforting but tiresome solicitation was expressed for the health and welfare of the

Canadian people on Friday, April 4are of the N. W. Rowell moved the second reading of the bill to establish a Department of Health. Beginning by saying most the proposal embodied in the Bill is one of the during the features of the "Mr Morin occupied the House with a lengthy dissertation the necessity of protecting the health of the people It is well known that the creation of this department is a pet project of Mr. Rowell's, supported by the Medical Health officers of some of our large cities. Judging by some figures given by the Minister, the need for some constructive, national endeavor to improve the physical welfare of Canadians is just as strong as he made it careful reading of the following should lead to carefu the Military Service Act; of these 180,440 were ace unde as physically fit; of the remainder 181,255 were found to be more or less physically unfit 181,255 were found the adtult male population of Canada of military, of more than one-half were found physically litary age active service" For lack of arysically unfit for Canada the Minister gave accurate vital statistic gigures for other countries eomparing the comarative Canadian statistics as avalable "Th with suc Children under one year of 1,000 bi deaths of realand are 50. How of age per 1,00 births in New New Zealand? Australia comes next with 68 pare with New Zeaiand? Aus rimes Sweden, 70 th 1,000; Fis t 1800100 ; 81 to 1,00 , 110 , 1000 . Feland, 22 to 1,00 , England and Wales like Russia you 248 deaths like Russia you get 248 deaths per 1,000 births, an 1,000 births." Among the Canadian Provinces, he said 'The lowest on the list is Saskatchewan, 91.2 per thou sand for the year 1916. The rest follow in this order Prince Edward Island, 93.6, 1917; Ontario, 107.2, 1916 British Columbia, 107.3, 1916; Manitoba, 113.5, 1914 ferring to cities as showing more startling figures following is quoted: "First let me give you the rates of certain cities in the Old Country for the year 1916; London 89 per thousand; Bristol, 95; Edinburgh, 100 ; Glasgow, 111; Manchester, 111; Nottingham, 116;
Liverpool, 118; Leeds, 129. In England they believe that the rate of infant mortality for our own Canadian cities. I have the figures for six cities, two in Quebec, two in Ontario and two in Western
Canada. The lowest percentage of infant mortality per thousand is found in Sherbrooke, Quebec, 101 .
Then comes Toronto, 190 , Winnipeg, 126; Vancouver,
144; Quebec 203; Montral, 207; Ottawa, 224.," "In the South African war, of the British forces, of wounds, 7,792 . In other words, sixty-five per cent.
of the total deaths were due to disease and thirty-five per cent. to casualties in action. In the Russo-Japanese
war, in the Russian army, 20,890 died of disease, and
31,458 were killed or died of wounds. per cent. died of diseases and sixty per cent died from
wounds. In the Japanese army 27,000 died of disease,
and sixty-nine per cent. died fronn wounds present war, in the Canadian Expeditionary Force, wounds. That is, 5.14 per cent. died of disease, and ffairs that calls for the most serio afairs that Gavernment and the members of this Hause
only of the Geor
but of the people of this country, as to what action can take to improve conditions. I am sure we all agree that with our invigorating climate, our great open spaces
and the healthful conditions under which our people
may be permitted to live there should be no country in the world in which the death rate should be lower
than in the Dominion of Canada, and no population
more healthful and vigorous than ours." Naturally, the doctors, of on there atre quite






Scientific Research. It has not only its statistical department, but its advanced experimental stations, and we find when we investigate the administration of these matters at Washington, that they have a Federal
Health Department, which is almost wholly and entirely scientific and laboratorial in its efforts. There are four great departments of active workers in sanitary science -there are the great department of pathology, the great department of chemistry, with separate laboratory equipment and departments for each, and the separate ington Federal Health Department is how the Washpresent time." human life by saying. "It is estimate of the value of insurance companies estimate the value of a human life thousands of these little when you take into account the and the deaths from preventable diseases, you realize the importance of preserving the health of our people."

## Public Welfare By Order in Council

When it came to a discussion of what was meant by
the words "social Welfare" included in the Bill the Hous travelled all up and down the Great the Bill the House Great Britain in an endeavor to find a meaning. Mr Rowell drew a storm of protest from Dr. Michael Clark, Red Deer, when he read an Order-in-Council passed last December under the War Measures Act
outlining the housing scheme about which the House is supposed to legislate this session. Dr. Clark said regard to housing was policy of the Governrhent in of a Bill which Throne, but it appears that the policy has been from the settled but put into operation by an Order-in-Council I have been pretty patient with Orders-in-Council but Hon. friends opposite perhaps think too much so, it correctly, I should advise the Minister to very carefully. I am amazed,-I am the subject consternation,-if I have correctly learned that the Government, by an Order-in-Council, is actually consuiting avout a poncy which is yet to be debated and ion for what it is worth that it would have been opin much better for the Government if they called Parlia ment together in December, 1918, and submitted housing practically amounted to legislating as a Governe which Order-in-Council for the Dominion a Government by a purely domestic affair in consulation with the Pro-

## Religious Prejudice Has Its Fling

 House be appointed to investigate the condition of the racts surrounding the raid by an officer and men of Ontario. Notwithstanding the ready the Government to such an investigation, the subject was considered a sufficiently valid excuse for wasting
a full afternoon and evening. The Minister of Militia indiscretion of the officer who raided the Novitiate After he got through, the Orangemen and the Roman one who enjoys a scrap in words, but it was kept up for meeting was in session except for the hats that might be seen on the heads of several members. The House
was treated to the relative merits of Protestant Roman Catholic college students as willing to enfist.
The history of the Jesuit Order was more or less fully reated and several impassioned speeches stirred up ail
the ire and animosity that could be gathered together
from either side of the House. And all to from either side of the House. And all to no purpose
Half an hour would have served to arrange for vestigation and all the deplorable discussion would have
been avoided. Moreover, the business could have been proceeded with. This is perhaps an exaggerated instance of how small pretexts are taken
to upe up of time discussing
questions of very business of the country should receive foremost cous sideration, leaving petty religious jealousies for those
who have nothing better to do. The curse of the session is the waste of time and when the session promise to last until June, in any event, there should be no time
for quibbling. If the Government deems it advisable for several Cabinet Ministers to stay in Paris until

## Peace is concluded, the conduct of affairs in Canada

$\qquad$
$\qquad$ Miniter of Immistration and' Colonization. Calder Brie

ision in the law as it now stands casting upo a provision in the law as it now stands casting upon trans-
portation companies certain duties and responsibilities In reference to the carrying of immigrants to Canada. pany" so as to make it applicable to the Federal Govemment and the Provincial Governments which have transportation systems. Under the law as it now stands
there are certain prohibited classes; certan here are certain prohibited classes; certain people are being mentally or physically unfit or for some other reason. It is proposed to include within for some other clisses persons who are suffering from chronic alcoholism; (2) Those coming within the class of what is called suggested that we should carry into our law a provision to the effect that all persons who are either mentally or physically in such a condition as that they are not likely to be able to earn a living should be excluded. test and that persons should be included in the pry hibited classes who are not able to read. That provision has not been in our law as yet. The Bill also provides that we should include in the prohibited classes persons Who believe in, or advocate, the overthrow of concate the unlawful destruction of property; also persons guilty of conspiracy against His Majesty; efemy aliens who have been interned and also enemy aliens who hav been deported from Canada, or from British countrie
for any cause."

Royal Commission on Labor and Industry
The Senate, by reason of its borrowed plumage in the form of Ministers of the Crown who should sit in
the House of Commons, was the scene of an the House of Commons, was the scene of an important announcement made some days ago by the Minister
of Labor. Hon. Gideon Robertson, referring to the steps taken by the Government to promote better relation between capital and labor referred to the fact that the numbe: of become more and more frequent as the numbe: of men who were organized increased
from year," and stated that "it would be hetter from year," and stated that "it would he better, it after it has occurred." "For several months, according to the Minister, the Government has been working in this direction and as a result a plan has been evolved
looking for a betterment in the relations between capital lond labor, which was described as follows: "It is proposed that a small commission of five or seven mambers composed of men who absolutely command the con fidence of the public of Canada, and who are personally deeply interested in this serious problem, should im and hold consulations with the employers and the work men, just as I have been doing here in a small way, and after carefully surveying the situation and getting the oint opinion of the various classes interested in th than May 15; and, upon the report of that commission based upon the evidence and judgment of the people throughout Canada who are interested-mimployers and workmen alike-that we should attempt to make a
decision as to what should be the Government's policy respecting any legislation that may be necessary in order ol create machinery for the carrying out of the idea or
plan, or for promoting, as far as the Government may be able to assist, the spirit of co-operation and harmony and closer relationship bet ween employers and employed. That inquiry will go so far as to undertake to ascertain
the possibilities of joint representation in the control and operation of at least certain industries
Apparently unemployment in Canada is abating and
the foliowing general statement made by the Minister of Labor, should have statement made by the Minister for spending millions of dollars from a depleted treasury or the purpose of relieving on unemployment that apparently will not exist in a very short time: "The proving from day to day except in the province of British Columbia, where there is unhappily an exodus, or I might term it a migration, of soldiers who returned that province. As soldiers have the option of taking their discharge whereever they may choose in the D-in some instances because of invitations extended by provincial officials who desired immigration to that
province, -have been encouraged to go out to British Columbia, and there is a rather acute situation existing every reason to think that probably within sixty days from now we may have an actual labor shortage in railroads west of the Great Lakes, who just a couple of days ago placed an application for a large number of soon as the frost is out of the ground, they will want
10,000 men. That is going to absorb the large number 10,000 men. That is going to absorb the large number
of aliens who have found themselves out of employment
or have been displaced to give employment to returned

Expenditur
Public

Just by of Common
the assent
some little few day Committee, wields the beeline to $t$
of the mace turning, rep
uent back t doubled hin
that the De e House wice more Sergeant-at-
the Senate rucience w1
rue comme
wful impre upposed to
offices and heir irresp consent was we took for
declared Deputy nod
and when all standing sea had been $g$
put on their
railway pr

Canadia The first
held in Toro One hundre
from some o were dispos
of the anin high quality so attracti,
of the sale.

animals sold and four fen



## Wind

e years. There is a pro
ands casting upon tron uties and responsibilities immigrants to Canada
rm "transportation le to the Fortaralion com- Govern vernments which harne
the law as it now stands asses; certain people are
da
dan account of their unfit or for some other
de within the prohibited from chronic alcohohibited ;
class class of what in called
feriority. Then, it is into our law a a provision is
who are either mentally on as that they mentally ing should be excluded. hould set up a literary $\begin{aligned} & \text { he } \\ & \text { re included in the pro- }\end{aligned}$ The Bill also provisides
Theal rohibited classes persons
the overthrow of conthe overthrow of conproperty; also persons
Majesty; efemy aliens enemy aliens who have
from British countries,
s borrov rown who should sit in in
e scene of an important s ago by the Minister
on, referring to romote better relations
rored to the fact that organized incequent ased it would he better, if
ccurring than to adiust veral months, according plan has been evolved,
elations bbetween capital ve or seven members,
ly command the conand who are personally
sproblem, should im . rge centres in Canad nployers and the work-
re in a small ration and gety, and,
sses interested ing sses interested in the
nmendations not later dgment of the people
ested attempt to make a be necessary in order
ing out of the idea or e Government may be ployers and harmony indertake to ascertain
tation in the control dustries."
danada is abating and
Cade ring on the necessity
m a depleted treasury unemployment that in the $\begin{aligned} & \text { Cada is im } \\ & \text { 7 }\end{aligned}$ unhappily an exodus,
soldiers who returned the option of taking
varioose in the Do.
var various reasons, in
zations extended by
in immigration to that to go out to British
ute situation existing ment. But I have
within sixty days al labor sixhryaze day
ved
whord that our
who just a coulle ra larte n number of
rat
thirt und they will want
und as
und the the large number
out of enployment
yment to recturned nce Department

Riverdale Lady Segis, Gates \& Darnell, Guelph Madam Imperial Beauty, Wheatfield Farms. Manor P. H. Nicolo W, F Elliott
 Manor Segis Belle, I Manor P. H. Girl, Neil McLean, Rockwoo Manor Segis Posch Pietertje, Wm. Marshall Manor K. S. Hengerveld, Allan Steeves, Moncton Manor Segis Artis, H. F. Boake, Downsville. Manor Segis Car Born, J. McMillan, Belmont Manor Segis Rue; Sir Henry Pellatt....................
Aaggie Faforit Johanna, W. L. Smith, Ancaster Aaggie Faforit Johanna, W. L. Smith, Ancaster Manor Segis De Kol, J. S. Baird, Scarboro Jct. Mary Mercena Pontiac, Jas. B, Jones....
Manor Segis Vincent, Geo. Sexton, Scarboro....
Manor Segis Pontiac. De Kol, Sir Henry Pellat
Manor Segis Pontiac. De Kol, Sir Henry
Manor K. S. Flower, A. M. Muir...
Manor Segis Princess, D. B. Tracy, Cobourg. Manor Segis Inka, B. B. McCarty.
Manor Segis Pauline, J. H. Power, Bowmanville.
Manor Segis Countess, H. I. Miell, Hagersville.... Manor Segis Maud, Hospital for Insane, Hamilton Artis Foekje Pontiac, R. C. Lanning, Waterford. Manor Segis Burke, Thos. Baird Manl-Crest May Echo Belle, J. B. Jones.. Manor Mercena Schuiling, Wheatfield Farms Colantha Hengerveld Brookbank, Angus C. Taylo
High Grove Inka Ormsby, Sir Henry Pellatt. High Grove Echo Fayne, Wheatfield Farms Flossy Wayne Pauline, Frank Mason, Wexford Pussie Keyes Princess, Hospital for Insane.

High Grove Lady Brookbank, A. E. Hulet, Nor
Bell Ormsby Canary, W. A. Tonson, Scarboro Jct Edgmont Pride, E. E. Muirhead, Newmarket,... Bella Brookbank De Kol, Wm. Sellery, Agincourt Nina Segis, J. T. Shanahan, East Aurora, N. Y. Sunnybrook Nina Segis, J. B. Jones, Netherland De Kol Princess, Wheatfield Farms Fayne Segis Maud, Wheatfield Farms.............. Molly Mige Nancy Fayne, R. Cooper, Welland. Forest Ridge Segis Nancy, 1. M. Metcalf, BowmanLlenroc Pontiac Ormsby, Sir Henry Pellatt Korndyke De Kol Artis Prilly, Sir Henry Pellatt. Coronation Lass of Willowbanks, Sir Henry Pellatt. Miss B. B. DeBoer, Sir Henry Pellatt................ Pellatt..
Pontiac Johanna Artis, J. S. Baird....... Sunnybrook Lillian, Wheattield Farms. May Belle, Wheatfield Farms................... Natoye Mercedes De Kol, Earl Stover Pontiac Ormsby De Kol, J. B. Jones Betoria Pontiac, J. T. O'Connell................. Ben Vorlick Princess De Kol, Sir Henry Pel
Verbelle De Kol Keyes 2nd, Allan Steeves... Highland Topsy Maida, Sir Henry Pellatt Dorothy Hill, C. R. Dyke, Unionville Victoria Helen, A. M. Muir, Scarboro Carrie Minto Gerben, S. Elliott................. Daisy Burke Pride, Wheatield Farm Fairview Posch, J. B. Jones..... Aaggie Cornucopia Posch, Wheatfield Farms Males.
King Segis Pontiac Posch, G. E. Black, Guelph .... 3,350 Johanna Rauwerd, Cousins Bros., Woodbridge.... 100 Premier Pontiac Hengerveld, H. F. Boake.......
Correct Axe, W. R. Cummings, Cumming's Bridge........................................................ Segis De Kol Netherland, B. R. Barr, Harrietsville. ir Sylvia Pontiac Korndyke, Wm. Chambers, Ingersoll
Sir Lyons Natoye, J. D. McLean, Rockwood........ 115 $\begin{array}{lll}\text { Pietertje Beets Gipsy, J. S. Baird.................. } & 160 \\ \text { Comet Ormsby Burke, C. R. Dyke, Unionville... } & 150\end{array}$ Earl Burke Echo, Cousins Bros.........................

## Railway Commission Gives Judgment.

After a delay of abut way Com anissioners deciided that they had no juruisidiction in the matter of daylight saving, and that Parliament should decide this matter. They say that public would be endangered by the tailure of our railr
adopt the same time as United States rairoads.

Our English correspondent informs us that the
Agricultural Wazes Board set up by the British Board
 in the minimum rate of farm worker's wages. Workers week; those over 20 but under 21 years, 5 s.; ; those over 19 but under $20,4 \mathrm{~s}$; and those under 19 (but over 18), 3s. a week. There will be corresponding adjustments
of the over-time rates on the basis of time and a quarter of the over-time rates on the basis of time and a quarter


Founded 18ab
Markets
ent of Arrcultura
ent
etam
Inteliligenen, Divaloe

## op Priced Good Calve

| Same |  |
| :---: | :---: |
| Week | Week |
| 1918 | Ending |
| 16.75. | Apr. |
| 12.50 | 17.00 |
| 12.50 | 14.50 |
| 12.50 | 14.50 |
| 15.00 | 14.50 |
| 10.50 | 10.5 |

Samed Lambs Week Ending
Antr
820.00
8 820.00
16.00
16.00
18

## Charles

rice Range
Bulk Sales $\underset{\substack{\text { Top } \\ \text { Price }}}{ }$


An Easter Thought.
 But where and when and how and it what form? and why do you sleep? if sleep yopuppic Apinion," London.

Beautifying Our Homes The Perennial Borde
llowers. She is a botanist, and one of he favorite diversions-but a diversion with very serious intent-is the work of hybri-
dizing. Moreover, she has a seven half arce flow
Peel County
motor out from Toronto run by train is carried on first for love of the flowers
and the opportunity to wage an ent and the opportunity to wage an educative
campaign in behalf of them, and only campaign the seans of them, and only the second place as a commercial venture
So long as it "carries itself" its owner is, she.says, "prouc
Perhaps it is opportune that now, in
this time for planting, Miss Blacklock's article may be interpolated in our "Re
construction" construction series. For the subject
beautifing our homes is not removed a
far as some may think from problems o far as some may think from problems o
reconstruction. The great majority
homes in in Canada are not beautiful at al homes in Canada are not beautiful at all
from the standpoint those about which some effort has
made at placing flowers, trees and might, as a rule, be made much mo harmonious by the exercise of just a little
more time and a great deal more thusiam. And And hereal comese th-
point: In that litle Pd ful Things-the Horticultural Society' Annual Convention, whose last meeting
was in Toronto in February, the speakers referred, over and over, to the greaters in
fluence of beautiful landsca fluence of beautiful landscape, trees, flow-
ers and vines, upon character, upon the upers and vines, upon character, upon the up.
building of sweetness, and happiness, and true nobility in the lives of men, and pointed out, also, that "the Boys" "t while
in England, have beco seeing beautifivu geardenen a and will miss becaulse we beliente the auble,
 tive, we have as great pleasure in giving
Miss Blacklock's paper a place in this
series as in introd to the great "audience" of Farmer's
Advocate and Home Magazine readers.$T$ O get the greatest possible pleasure
from gardening we must possess ring-there is no thrill like the thrill call to the daffodil, "Come "up and come
out for the spring is about." The song of
Solomon is after our long wintera, and we greet the and her flower childrem with thankfulness. garden;
$\qquad$
$\qquad$
$\qquad$ fast it is not possible to enumerate them: prite waning a little. Things will he "ther things, come under the head of
proved to me that all forms of gardening mean, if they are going to be successful, certain amount of good hard work- but
it is such delightful, such interesting, such healthful work that it is really play
The first year after border does not make growth enough to be very imposing, and one is often
tempted to put in a quantity of rankgrowing annuals to give a mass of flowers
to cover over the frequently over the watal, as spots. This
flant are permanent


The Beauty of the Winding Driveway









Blue Larkspur and Madonna Lilies
flowers of the tall phlox will have grow mysteriously small, and the rhizomes over each other in an attempt to reach fresh supply of nutriment. It is days; the glory is departing from the border, and it has to be remodelled will soon become a wilderness.-This no one may be decoived making, so tha borders do not stay put forever. Like evary


Sour plan for your border put in you
I am taking it for granted that you are going to make a planting plan, ys it
is the only royal road that I know on stationer's paper that has buy, at any squares upon it; these are subd inch again into tiny squares ore hundred to is a very easy matrawing a plan to scale mine to the scale of 1 generally make 4 of the tiny squares thus being equivalent First, decid First, decide whether you want straight
edges to your border or whether you prefer the curved line that ghethes you
little bays and promontorics where you can have small, secluded bits that come upon the beholder as a surprise. Just
here I may say that it takes more artistif skill to make a really beautiful curved capable of being the more beautiful of the two if artistically carried out. I have gone rather softly lately in advising anythat they have a feeling for artistic effect; therwise the result may be a border with collops of mathematical exactness, which sardens are generally more effective with narrow side borders and a deep one at the far end well massed with shrubs and the
taller perennials, such as delphiniums, ce, and curving, around a little into the
de borders. The width of the side borders epends on the width of the garden of ourse; in some narrow gardens no more be spared for them, and it is an exceed ngly difficult problem to plant such
narrow borders so that they will be at all effective, though it is wonderful what good results some people can get from such advocating narrow horders far am not where land is plentiful let the border be of generous width, $10,15,25$ to 35 feet, yrand proupsosible; then you can have and the question of planting background here is need not worry you unduly, as coming on all the time, even if there is also something going, off. But the
possessors of such unlimited space are few from two to tive feet, and it is to these hat one's sympathy goes out as their
lifficultics are so much the greater. Having come to a decision as to length, Midth, curved or straight edges, the next colors, If you wish to add to the apparent length of your border, place the
soft blues at the far end of it-they look a great deal farther off than, say, a mass
of red flowers would; purples and mauves effect tosser degree leep yellows give an effect of nearness. Masses of white and creary yellow
flowers and grey-leaved plants can be. ised to separate such colors as will un into orange and orange can be run into bright yellow, then paler yellow can
be followed by purples and liacs, and the atter will blend fairly well with the lagenta pinks with a little careful shadill as beautiful it extremely useful a nind at least, to try to do misthout them In fact, I believe a very be uutiful pink the curd be made by using nothing tit the various shades of masenta pink-

April 17, 1919
and they will give a rosy glow to the
middle distance-the blues being the distant colors par excellence. The strong warm colors look anelicate ones in more shady positions.e ective than mere patches
are far more effective of it. Having settled where you want your different colors the next step is so that will give them to you, and make a The first to come to your mind dot down on a sheet of paper, and opposite its name make an the duration of the bloom. Next, whether it likes sun or want to know. By ruling columns for the different particulars this can be quickly done and you will be astonished at the you are familiar with,-from the forget-me-not and creeping speedwells for the delphiniums for the back rows-thoug there are not very meny, anchusa and
blue as the forget-me-not, delphinium, most of the others running into the lavender shades.
through all the colors this way and when you have your material all ready tabulated ut the plants and shrubs of each color that will be kept in the same spot for years- and place them first on your plant
hese will be your permanent plants that I spoke of belore.
Planting and, therefore, first planning
 -spot planting the least so. There is
such a thing as carrying the massing process too far-the result being wonderful show of lepressing of it at another. Very few plants flower for long periods of time, they have their season of gorgeous-
ness, and when that is past their decorative ness, and when that is past their decoratliv-
value depends on their leaves entirely his must be kept in mind. There are very many plants that are well worth
growing simply for the leaves, such as the various day lilies-both funkias and
bemerocallis: many of the iris tribe are also useful in this way, and various grasse foliage also counts greatly, such as the soft grey leaves of the crowned lychnis
and the hoary veronica, and the almost pure white of the snow-in-summer-the
blue grey of the hardy pinks, of Fortune' day lily and of the blue lyme and other southernwood or "old man," and the
equally old "live-for-ever" and ribbon grass are most effective when skilfull I once saw a six or eight-foot row of
ribbon grass about a foot above a row
of the old purple flag iris, and the result was so beautiful I have remembered it
for over twenty years.-Before that I am afraid I rather despised it-familiarity having bred contempt, from its too fre fashioned gardens of one's childhood.
Do not forget to space your plants according to their size when full grown,
especially the permanent ones: the others it is sometimes a good plan to plant rather closely for immediate effect and take out
every other one as they crowd each other. It is well to renember some very the making of a long, wide border are ior instance, a group of the moth mullein,
known as verbascum, Harkness' hybrid, would be a delight to the eye, with its
candelabra of soft yellow bloom and its majestic growth, in a large border, where
plenty of space could be given to it whereas in a small one it would look as man does seated on a little, frail chair,as they are, also take up too much room in a small border-(if planted at all, one
or two may rake the place of shrubs), when in bloom, and afterwards the foliage makes an effective background for other
things- though to my mind the paeony,
like the roos like the rose, merits a garden, or at least With a well-chought-out color scheme
and a good knouledge of plants, wonders
can be worked aan be worked on paper, and I do not
know of any more delightful occupation
or the winter erenings. It is quite as
oraciat fascinating as planning a house, and the
problemi will be found just as perplexing
and the solving of them give just as much

THE FARMER'S ADVOCATE

Hope's Quite

## Hour.

Look Up!
Unto Thee lift I up mine eyes, O Thou
that dwellest in the heavens.-Ps. 123, 1
A little tree, short, but self-satisfied, its head and cried, Behold how tall I am, how far the earth!'
and, boasting thus, it swayed in scorn-

The tallest pine tree in the forest rad Its head toward heaven, and sighed the Alas, how small I am, and the great skies What years of space 'twixt me and yonder Our height depends on what we measure
If up from , earth or downward from the
To-day a friend of mine told me about
talk she had not long ago with an


An Easter Lily Field in Bermuda Island.
Dr. Cody's Plans For The aviator. He told her that once when he Schools.
D' R. Cody's somewhat anxiously
awaited speech, as Minister of
Education lature, was made on Aprill 8 th, on the
occasion of the second reading of the Bill occasion of the second re,
for Consolidated Schools.
While not forshadowing any drastic
change, the Minister gave notice of many reforms which he favors. Important items that affect the rural districts espe-
cially, look to the establishment of fibraries in rural districts, and increase of
he grants to raise the salaries of rural the grants to raise the salaries of rural
teachers. Also legistation is to be introduced to provide for peripatetic teachers
-i. e, teachers going from place to place -in sparsely-settled regions. The most the establishment of secondary agricultual, commercial and technical schools,
for students who do not wish to take up academic professional training. Other items proposed: greater at science in all schools; the combination of
grammar and composition; special trainIng for inspectors; less physical ard
scientific goegraphy in elementary
 schools; and promotions based more
on the work during the term and less on examinations, which the Minister re-
ferred to as a sort of "necessary evil that
will be removed as far as possible.

## vill be removed as far as posisible.

## Waiter.-How will you have your steak,

 Minister (absent minded).-Well done,good and faithful servant.-Awgwan.
aviator. He told her that once when he
was above the clouds, suddenly-through
a rift in the mist below him- he saw the earth far below. He was dizzy as he looked down. The higher a man mounts towards the sky the more he should look Uzziah was made king of Judah when he was a boy of sixteen, and for a long
time all went well. He did that which was right in the sight of the lord, and he lought God-at first. He was marvelwhen he was strong, his heart was lifted That story has been repeated many times. It is dangerous to rise far above up to God, who is infinitely high. It was take when he compared himself with other men, and told God complacently
that he was much better than they. He may have lifted his eyes to heaven, but the publican, who dared not lift up his eyes, was fixing his heart on God.
Words of self-depreciation are worthess, unless they are sincere. But those Who are really trying to carry out our
Lord's command to be perfect as the
Father in heaven is perfect, may seem to other struggling souls to be very saintly, while the space between them and the
holiness of God is infinitely great - as they From the height of perfect Manhood our Elder Brother looks down and says
to us, His weak followers, "Lift up your earts." Let us answer, with steady purpose: "We lift them up unto the Master's face so that He can guide our

The actual planting from a plan is not
 several 5 -foot sticks, get an idea of displace things. In this way you can make temporary blocks five feet each way which will represent an inch on your plan,
and you can surely place your plants few sticks to use as space at a time-a important item-the prepargation of very soil. This requires to be very deeply dug
and heavily manured, trenching the fall before planting and placing plenty of that the long-rooted plants can find something to feed on when they begin to grow.
This will encourage them to send their surface when a severe drought would injure them. After planting keep the
soil light and loose by frequent cultiva-tion.-May your borders prosper! so that
$\qquad$ My garden spade can heal. A
woodland walk, A quest of river-grapes, a mocking thrush,
A wild rose or rock-loving columbine,
Salve my worst wounds."
can no. It fies up above the housetop,
circles round and round.
It settles on a neighboring tree. It looks up, but the
 to descend; and so in a little time my
soul comes luttering down to me, and creeps into its cage again. My hope is in
the Holy Dove, the Spirit of God Himthe foly Dove, the Spirit of God Him-
self, that comes down to earth and bears self, that comes down to earth and bears
$m y$ The duties, cares and pleasures of
ordinary life may-for a timecrowd out the remembrance of God; but if the
spirit often fies to its home in the Fathers spirit oiten fies toits home in the Father's.
heart, it will glad. The soul begrimed with earth's dust discovers that it has wings like a
dove and can Ay away romm are into dove, and can fly away rom care into

joy, from weariness into rest, and come | ioy, trom weariness into rest, and come |
| :--- |
| back glorifited. |
| Though ye have lien | amon the eots,", said the Psal hist, "yet shit he se as the wings of a dove covered

woither, and her feathers with yellow gold."

To stretch my hand and touch Hin To raise my eyes and see Him
Through darkness as throuyh day
To Tift t my voice and call Him-
This is to pray! "

## Gifts for the Needy.

M. Jones" will be glad to hear that gone overseas to the destitute Serbians."
During the last week I received $\$ 2.0$ Mrs. K. and R. M. P., also fifty cen from G. T. H.
Sunday
Sunday-school papers, and other litera-
ture for the shut-in, have arrived from ture for the shut-10, have arrived from
many readers. These will be greatly ap-
preciated by my sick friends
preciated al!

## Dora Farncomb,

## About Easter

 It is confusing to some people to find not a fixed one. For instance, it may be in March or in April, early or late in the of this festive changes. Christmas is always December 25 th, but we have tolook up calendars or almanacs to find look up calendars or almanacs to find
Easter. The word Easter is most probably derived from "Eastre," the name of a Saxon goddess whose festival was kept about the same time as Easter. The
word "Eastre" literally means "risine or "to rise."
The sun crosses the equator on 21 st equinox. Easter Day is always the fir
Sunday after that full moon which come upon or next after the 21 st of March, year, the full moon being understood to to be (though not accurately) the 14 th
of the calendar month. If the full moon
comes on Sunday, Easter Day always is the Sunday after, and the Friday preGood Friday is so named because it was a good thing for the world that Jesus
died that day upon the cross for all peoples.
$\qquad$ lasted eight days, but in later times it
was limited to two or three days. It was
a festival of pleasure; alms were a fostival of pleasure; ams were given
to the poor and slaves were often freed.
Daily services were held during the whole
week before Easter, and on Easter Day week before Easter, and on Easter Day
the people greeted each ot her with a kiss,
saying, "He is risen," to which the reply was made, "He is risen which the repl." This Church. In Russia to-day even the (zar
will not break with this ancient custom, but wint. greet and salutceren a humble The custom of exchanging eggs as ?
symbol of resurrection or renewedl life is eggs on Easter. When we think that the iss carefully hidden awad
shell
one are remindecl shell, we are reminded
glorious and triumphant



Our Serial Story.
The Forging of the Pikes. A Romance Based on the Rebellion of 1837
Serial rights secured by The Farmmer's Advocate end Home Magazine
CHAPTER XIX
Concluded.
But at last the handshakings were
over, and we entered the church pieased that it was still early enough in the I could look about at the people of them I alreaty knew by sight, for in a place like this celebrities are soon pointed out; and any deficiency in my knowl-
edge in regard edge in regard to the rest was rectified as rapirly as might be by Nora, who
kept whispering to me behind her prayerbook until set in place by a look from where sat the Batdwins, the Powells the Jarvises, the Ridouts, the Cawthras, the Chief Justice Robinson, who is ong of the handsomest men I have ever seen,
very " patrician," as Kate says of him, with clear-cut, features and a bearing
that might well become a prince of any Especially was I interested in looking Especially was I interested in looking
It the face of Mister Baldwin of whom
I hatve heard so many good words spoken as long as I remember, and I found his
ostentation. nust know some personage was entering "'So that's Sir Francis Head!"' I exclaimed, to myself, and was gratified could observe him closely. A handsome man, no doubt most people would call him, although it seemed to me that he had a light, supercilious
air, with an eye that roved air, with an eye that roved over-much,
and $a$ thin-lipped curved mouth that reminded me of "Pinky's" "rosebud."
The ladies who accompanied him were very fine birds indeed, in very fine feathers; but neither among them nor who came in a body and who Nora informed me in a whisper were from Miss Somebody's school, did I find a single one that for beauty and grace could
compare with Barry. Like concervatory compare with Barry. Like conservatory not think of them but in a setting of velvets, and furnishings, and candles alight in candelabra, as in my uncle's sufficient to call up, along with her all the joyous, wild beanty of Nature, than which nothing else in all this world, I I do believe, can be so sweet and fair.- And yet very
attractive, too, were these dainty buds in their rustling silks, and none more so the long pew. "Here comes the processional!"'whisper-
ed Nora to me, in the slight confusion ed Nora to me, in the slight confusion
caused by its entrance, and then, as the
end of it caused by its entrance, and then, as the a
end of it came in sight, "Yes, Dr. th
Strachan's going to preach."


Curious Samples of Easter Eggs Decorated by Peasant Women
in Brittany, Western France.
 have orgoten since to ask whether they
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
is althoughIn) I sat there, all cyes and ears, and
anns. now actually looking, wi

$\qquad$ sharplyereupon once more I had to look
hof this man also
heardy Compact," right in the midst of the Fand tomily to myelt, wonderint almpact, 1 I said to myself wo thamily
ardinaty thit these men looked like ordinary kindly citizenen instead of like like
opres and raveniny
hood fa
them.saidyout
yous
was
Whever, which it had much the service
vith credit, had it hot have forlowed for Norad
and ..... ${ }^{\text {D }}$maner finc homewhat shortum mant, sthan,grand coach fit ore the the Pope, and and living ab(er.
le in
and
and
he was just a man of great commonquence, it is true - for a sane eloquence, it is true - for a sane well-
regulated life. When the serme over, and I tried to sum up what The Schoolmaster would have thought The " knew he would have said that it lacked "vision". - As for me I have no great experience, and so perhaps things, and less experience, and so perhaps, am no right-
ful critic. But it was hard for connect the reverend doctor with to Family Compact's doings in the fashion which I have heard him represented. On the way home Uncle Joe walked discourse?", he asked you think of the
"I liked it very well," I said.
"What! And you didn't. get even a "Never a glimpse," I laughed. "If them pretty well covered " Evidently my uncle admires the Rector
with all his heart of more ability in the place!"' he man quite enthusiastically. - "There's no
molly coddle parson for eyes rolled up and tongue, with nered, with history until ye're scunat all in anything but the Church. the hospital he's the done about the schools almost any day in the week and you'll likely find him there. Is
there a patriotic meeting called, he's ight on the spot. Is there a knot be untied, he's the one to that needs to that's a fact, and don't you smile, you,
young spalpeen, or by the powers I'll young spalpeen, or by the , powers I'll
knock you off the sidewalk!"
At that 1 burst out laughing "I wasn't smiling, sir," I said, "not He gave a little "Ahem!" and I saw
that his merry blue eyes were twinkling. that his merry blue eyes were twinkling. see I thought I'd got me foot in it again.I know the sort of pap you were brought up on, me boy, politically speaking.
up on
Ginger and pepper Ginger and pepper, by Jove!-Pap Havored
with ginger and pepper! That's a with ginger and pepper! That's a
good one, but you know what I mean. Now, to return to the Doctor,--he's a financier, man,--a financier! But he's
How many of 'em wouldn't do it, with his ability? Tell me that? And it's the same
with a lot more of With a lot more of 'em that that pesti-
ferous little scallawag Mackenzie's been railing at for the last ten years! They're financiers, man,-financiers! And they're
building up this city! There isn't a man building up this city! There isn't a man than this same little man you heard "I quite believe it, Uncle, I said "I quite believe it, Uncle," I said, "Oh there's a lot of rapscallions all advantanges out into the backwoods in the wink of an eye. Lord bless you, man, a country has to grow! It has to
grow, sir! But some of 'em want to run a Marathon before they've well learned
to creep. One thing about your father, Alan, he's more reasonable your lot's of 'em. We come to blows, politically speaking, he and I, every time we than, that yet, thank the any further could roll me around like a plum pudding. home and not go trapezing about on platiforms, or waving a fool motto in a sets me rampagin' to see those fool a bull feels when he sees a red rag walloped about just to tantalize him." "Father always kept clear of being very radical in anything," I said. being "He's Scotch," he said, "and canny,
thank the Lord" And thank the Lord! And I'm glad to see,
boy, that you're a little like him in that respect. Keep ycur eyes open my boy, . You'll your own mind about things. black-hided devils, I mean-while you're in the city; Octavia and I'll have to give
a few dinner parties soon to get even. But I think you'll not find 'em such a bad And till. was clicking along over the stone, which and made believe to poke me with it.
dinner parties I'll disown you! That I upon the restless bay and white ground will - Which alarmed me not at all, for but away over the dark hills and forests, my uncle is good enough often to lead me I am, and indeed, finds it hard to keep lam, and the subject, albeit he has lost
long off his temper once in
me soundly. His tempers, however, are like a flash in a pan, and he has
never failed to apologize afterwards, never failed that he wouldn't give a fig
telling me that

I hold it much to his credit, too, that he has never questioned me although he knows that such are afoot all through the
country, as does almost everyone here. to think of The Schoolmaster and the boys practicing away after nightfancing little hole in the woods and fancying
themselves all part of a great secret, while the whole movement is known here and even laughed at by the Government. It may be, however, that The Schoolmaster fears the fellows from beyond the Ford Such preparations, Uncle Joe thinks are all bluster,-the opinion that, he says, is held by Sir Francis Head, Chief Justice Robinson, Attorney-General others, and must be by Sir John Colborne also since he has felt safe to remove the my uncle, too, as to what the leading Reformers here have to say about it all,
and especially Mister Baldwin and and especially Mister Baldwin and
Doctors Rolph and Morrison, all of whom he knows. They, too, he says,
though far from being satisfied with the way that things are being conducted by the Government, take small account
of Mackenzie's doings, and, indeed, rather disassociate themselves from him,
while pressing the justice of much th he affirms.
"But, of course," concludes my uncle, so long as there are two political parties, -which sounds
by political parties instead of the parties being created by opinions. This, I fear, may be sometimes the case, and all
the more do I see it since coming to this "Why don't you try to get more into the other evening, as we sat before the fire in the living-parlor., "Why don't "I've no taste for the like at all, my decided to give my life up to healing sick bodies, and I've never regretted it. all my time - and more if I could find it. Sometimes I've wished I had ten bodies all on the job. so - Besides, boy I could send them talent for politics- 'statesmanship' is a lose my head -in everything except the doctoring -and l'm no speaker, although" express myself with fair emphasis on I laughed, but said nothing, and he Then, the puff at his pipe for a moment. he turned to me, taking his pipe from his mouth and holding it at arm's length. sembly needs an extra escape valve to the job." steam, why I might apply for enough spot at times," I said "You're right, my boy, You'll have all a part of your education. Perhaps, uncle cant'. - Then suddenly recollect ing himself-" "But by gad,", sir, you're

A few moments ago, after finishing
writing the above, I put out my candles and went to the window and looked out at the bay, this night all moving restlessly
like some troubled living thing, and all flickered with silver, although darker
than the land between because of a the withered grasses that has fallen upon this picture present with me for the imagination began to work. And so
it was that
on and away until my soul hovered then saw the dear farm with the little night save for a flickering glow at the tiny window. The next instant, through the window, I saw my dear mother and
father. In imagination I pressed my face against the glass and beheld them fireplace, in which my father had piled logs until the flames filled all the cavern and lighted all the little room, playing
most of all on the sweet face of my mother crowned by its. ripple of brown hair drying, and my father was coring them and making them ready for her, and
although their lips moved I could not hear what they said. After that a sadness fell upon my of Barry was creeping into it. Where
was she this night? Was she happy and well-cared-for? Why had she passed
me as I slept, without other sign than the dear, yet tantalizing pateran that stop her again clearly as I had ever seen her and heard her laugh. There in the Golden Winged woods was she, with her
crimson scarf and flowing hair all bound crimson scarf and flowing hair all bound
with the little vine of green. with the little vine of green. And then
she disappeared, and I saw only the misty troubled bay and the ghostly this place," I said to myself, as I had said a thousand times before, and I knew
that until that day I must still keep wat until that day 1 must still keep woman, and straying into every place
where people congregate. Me, perhaps, she will never want, yet some day it may
fall to me to be her friend. fall turning from the window I lighted my candles once more, that I might write this. Now I must go
fear I shall not sleep.

## The Fashions.

Order by number, giving age or at least ten days to receive pattern pared. Address Fashion Department, "The Farmer's Advocate and Home
Magazine," London, Ont. Be sure to sign your name when ordering patterns. Many forget to do this.
When ordering, please use this form:Send the following pattern to:

## Post Office

County

## Number of Pattern


Date of issue in which pattern ap
 By a mistake in the printing April 3
issue, an old heading was placed beneath
UTU "The Fashions."- The prices of patterns each number. Unless otherwise requested the extra money from those who have
sent 15 cents will be held to their credit on another pattern, which will be forwarded
size, etc.
2788. Ladies' Dress.
Cut in 7 sizes: $34,36,38,40,42,44$ and 46 inches bust measure. Size 38
requires $51 / 2$ yards of 44 -inch material. Width of skirt at lower edge is about 2
yards, with plaits extended. Price, 10 2792. Girls Over-Blouse Dress.
Cut in 5 sizes: $6,8,10,12$ and 14 Cut in
years. Size 10 requires $33 / 8$ yards of $36-$
inch material for the dress, and $13 / 8$ yards for the over-blouse. Price, 10 cents.
2642. Ladies' Apron. Cut in 4 sizes: 40-42; and Extra Large, will require $21 / 2$ yards of 36 -inch material.
2637. Girls' Dress. Cut in 4 sizes: 4, 6, 8 and 10 years.
Size 8 will require 47,8 yards of 27 -inch
material. Price 10 . 2793-2796. Ladies' Costume $40,42,44$ and 46 inches bust 2793 , 36,38 , Skirt 2796 cut in 7 sizes: $22,24,26,28$ 30,32 and 34 inches waist measure. It
will require $23 / 8$ yards of 44 -inch material for the waist, and 3 yards for the skirt, lower edge is about 2 yards, with plaits lower edge is about 2 yards, with plaits cents FOR EACH pattern.
Cut in 3 sizes' Dress. 12,14 and 16 years. Size 14 will require $41 / 2$ yards of 36 -inch 2774. Ladies' House Dress.

Cut in 7 sizes: $34,36,38,40,42,44$
and 46 inches bust measure. Size 38 requires $53 / 8$ yards of 44 -inch material. The dress measures about $2 \frac{1}{4}$ yards at the
foot. Price, 10 cents. 2787. Boys' Suit.
Cut in 4 sizes: 2, 4 and 5 years. Size 4 will require $17 / 8$ yards of 27 -inch
material for the blouse and $13 / 8$ yards
for the trousers. Price, 10 cents.
2613 -Here is a Popular Suit for Your Small Boy. a Popular Suit for Cut in 4 sizes: $2,3,4$ and 5 years. material. Price, 10 cents.
2767-Ladies' Combination.
Cut in 4 sizes: Small, $32-34$; Media n. 36-38; Large, 40-42; and Extra Large, requires $31 / 2$ yards of 27 -inch material



2320-Girls' Dress with or without Cut in 5 sizes: 4, 6, 8, 10 and 12 years. Size 10 requires $23 / 4$ yards of 44 -inch material for the dress, and $13 / 8$ e jumper. Price, 10 cents.

Cut in 7 sizes: $34,36,38,4042,44$
and 46 inches bust measure. Size 38 requires $51 /$ yards of 36 -inch mater 38 Width of skirt at lower edge, is $13 / 4$ yards. Price 10 cents.
Cut -Child's Dress. Size 4 will require $21 / 2$ yards of 40 inch Price 10 cents.
Cut in 7 sizes: $34,36,38,40,42,44$ and 46 inches bust measure. Size 38 requires The dress measures about $23 / 8$ yards at foot. Price, 10 cents.
${ }^{2759-G i r l s ' ~ D r e s s . ~}$
Cut in 4 sizes: $8,10,12$ and 14
years. Size 12 will require $41 / 6$ yards years. Size 12 will require $41 / 2$ yards $21 / 4$ yards for the jumper. Price 10 2764-2761-A Trim Business Costume. W hast 2764 cut in 7 sizes: $34,36,38$, $40,42,44$ and 46 inches bust measure. It requires $23 / 4$ yards of 36 inch material 7 sizes: $22,24,26,28,30,32$ and 34 inches waist measure. Size 24 will require $23 / 4$ yards of 44 inch material. The skirt measures a little more than $13 / 4$ yards at the foot. TWO separate
AF 尿 列

2



## Founded 1866

The Easter Lilies' Message $\mathrm{N}^{\text {AN Barton sat in a }}$ chair beside the fire. She was apparently watching
the white steam-clouds floating ceilingthe white steam-clouds floating ceiling.
ward, but her thoughts were far away in her Old Ontario home, which she had
All day a storm, halt sleet, half rain had driven against the windows. At
sunset it had ceased, but the wind was sunset it had ceased, but the wind wa
still high and at every blast the small
log hous shook and dors log-house shook, and doors and windows The "clap, clap," of horses' feet and the
rumbling of wheels was heard distinctly as the wind paused to gather strength for a fresh blast, and she sprang up, hum-
ming a snatch of son ming a snatch of song, and lighting a
lantern, carried it to the door, with the glad cry, "Home at last David! her, almost carrying her of her feet she drew a long breath as the door again
shut out the searching blast. She lighted the lamp and peeped into meated with the savoury aroma of the hot appet izing food inside.
"'I'm famished!" David greeted her. "Haven't had a bite since I left. I ra
across an old friend from home to-day Used to travel for the remember him Nan nodded soberly. Billie Rogers had
never been quite the sort of friend she He took off his great coat shook ice from his cap, and washed himself "Nothing done outsidee Ioor. supose-as
usual?" he queried from the depths of the crash towel.
The red surged into his wife's and she drew a q quick breath,
"Nothing," she answered, quietly. "It's great to be a woman!" he com
mented drily. It was the first time he had ever spoken
so to Nan, and sensitive as she was, she He was a fine specimen of manhood his muscular young giant, lithe, straight
and handsome too TT-night, however,
his dark eyes were dsl his mouth lacked its usual smiles of good Something was wrong, Nan told her-
If, and with rare tact she tried to appear blind to the fact.
The good supper failed to cheer him For he ate almpost in silence, then rose abruptly and went to the barn.
Her work finished, Nan gazed out into the night.
Everthing had been transformed as
by a fairy's wand. The alder bushes by a fairy's Wand. The alder bushes
encircling the little clearing were sheeted
in glistening ice; the plowed land gleamed
in the in the moonlight like a choppy sea; the over the face of the moon, the stars blind tothe beauty of the scene before was.
David had implied ne her share of the work when time What could outside work. Then the thought of Billie Regres came the ther.
If David hadn't reformed she would nk of suthat thing. must never even
Had she been herself, she with her bright optimism and shuny nature
would never have given the disagreeazle spech a second thought. She simply
Would have attributed it on irritability.
But he
$\qquad$
$\qquad$
$\qquad$
y and wholly ashamed, the notes
pulled off home"' greeted him.

Suddenly his wife's words came toWords of perfect trust, they proved his
$\qquad$ $\begin{array}{ll}\text { Swung round on the sfool. } \\ \text { Wher no, Davinl. I wasnt thinking of } & \text { Salvation. Raising the flask suddenly } \\ \text { he hurled it against the rocks heneath } \\ \text { and turning walked swiftly back to }\end{array}$
 Recalled to timself he turnece e enet.
neighbor was racing down a side street. "Whure wanted at home, Dave." faced
 even tif of them and stall prias biem Conn when we can afford mathoem

 | litule home has done more thand seour |
| :--- |
| musucle | muscle. Im proud of your broad should. Some day we will see David, no less. piece, well worth all your hard a mastershe had drawn his head back against her as she stood behind his chair, and

her fingers played in the mass of dark in a little gaily, "Do you know what comes "Easter, of course"-shortly.
ding anniversan Easter, David,-our wed and the big remember the , Easter lilies But David did not answer a voice ran on quietly.
"I can smell their sweetness yet and ever since that day Easter lilies "When we are a little better off, do you know, I shall always have Easter "'I was the proudest, happiest girl in the "Weren't you afraid to trust yourself Bust she interrupted him. was husky. left me you would keep your word and How sure she had been of him! Jus now he was not so sure of himself. To-
day the thirst he had thought dead had dormant. He knew It had only lain imminent. He had feen batte was Why had he not been brave enough "ered him something to keep away the "flue" in the privacy of his room at the
village hotel. If he had only never met Billie Rogers! ", "No
-"I know there is something wrong to night. Isn't there, and won't you tell Yes, Nan, there is. It's money again to begin with. One of my machinery I lost a horse and the frost ruined my won't renew my note as it's company payment. To-day 1 tried to hire the money and got turned down everywhere." someway or somehow. It always does." "You've more haith head. Somehow I've lost my grip-lost faith "Hush David! Don't say that!" her lips to his forehead. But before she slept, Nan found the clue to her husband's despair. In closing
up the house for the night she brushed against his inner overcoat. It slipped
from the peg and fell to the floor and in onnging it up again she found -a flask With sudden horror she pushed it from fear of what the future might have in
store for her she buried her face in her shaking hands and gave vent to the
tears that could no longer be kept back. Afternoon of another day and David
stood alone on the icy bridge just outide the town-weak and irresolute. The flask he held in his hand. A
demon within was urging him on to drown his discontent and troubles in an
hour's oblivion. A maddening thirst tormented him. Great beads of sweat tood out on his forchead, his Timbs ". Me saisl at last. "Yiourought you
yours is beside my farm as that piano

## Founded 1866

 pano and mo shall potion then you have modoresem: and buiding oir ve done ${ }^{1 /}$ should.noin lese
$\substack{\text { onimper }}$
and will is head back agianey ol know what Shorly

fhe Easter liiee

answer and hee

| cetess yet Dayid |
| :---: |
| day Easeres litis | litle boter off do do

alwass hare
ajsed happiestiri in the id to trust youreali
s. voice was nuty
 been of him! Jut


 been taio bimes | Sogerss had poit |
| :--- |
| to cee a way the te | of hisi poon at the

had only nerere net or vire wa coxing ded mog wong toin It's money agin
 , wonand sine
 downeverywhere willall ome ribith
 Dor't say thatr
1 tack and presed Nan foud the
 to th for and in in stepusised it fom
 gave vace th ther to rdyy and Dayid
brince iust outide Treaite hand A
 mbead tspat world cane tor
would keep yout they proved his


\section*{ne tureded about} | asidestreet |
| :---: |
| Rave, |

Fell some
fit 1 or there

April 17, 1919
THE FARMER'S ADVOCATE
Without a word David strode after his horse. The money so sorely needed,
his thirst for the burning liquor were alike forgotten.
Never had the miles seemed so long Many turned and gazed wonderingly after the road over which he urged his horse, guiding it as if by instinct.
A terrible fear gripped him. Nan,
his Nan, all he had in the world, had been his Nan, all he had in the world, had been
hurt, how badly, he could only guess, hurt, how badly, he could only guess,
and her!-oh God! What if he had Again he felt her kiss on his forehead and heard her words of perfect faith in
him. "Poor little Nan!" he whispered him. "Poor little Nan!" he whispered, The home-light glimmered at last and or the first time since his marriage no one Housing the jaded, steaming horse hurriedly he entered the house.
Mrs. McCallum, motherly and whitehaired, the good angel of the Settlement in sic over steaming kettles. The old lady held up a warning finger
s she came close to him and whispered:
"'The Doctor's wi', her noo. She's nae entlly, "She was oot tryin' tae dae the chores, silly wean, and slippit on the ice uckily 'twas, I got oneasy at seein' na smoke and rin ower, tae get tae hoose, he warned him. heard the warning But he scarcely heard the warning.
Every word stabbed him to the quick. If he could only recall those cross words the cause of everything!
ale drawn with pain but she opened pale and drawn with pain, but she opened
her eyes as her husband knelt beside her, and with one trembling arm drew his He knew her fear, and rejoiced that his breath was free from the odor she dreaded. for herself, and with a sigh of mingled content and utter weariness, she lay back and closed her eyes.
"Forgive me dear, I I was a brute," he whispered and she pressed his hand other-
wise making no Dr. Brown followed him outside.
His face was very grave but he laid a kindly hand on the young man's fears, and bade him keep up his courage. Me would do all in his power, and Mrs. worth her weight in gold in any com-
munity. "Just go to the barn and get
busy ", needed we will call."
Going about his work the hours dragged drearily for David. As a drowning man sees relle pass as in a panorama, so
he recalled the past. His mother had died when he was born. educated him. There was wine constancly berore him and when his
liking for it grew and he took it to excess, it was at first overlooked. Finally the habit deeply inrooted, he was cast a-drift. Nan had already come into his life
and was the one bright spot in it, and because of her belief in him and his great associates and fled to the solitude of a bush farm in New Ontario. He would conqueror or die he had promised her.
When the awful thirst came upon him he fought it out axe in hand.
strenuous, but with grim determination he stayed by the task he had undertaken. utterly exhausted. Bravely he fought the curse with aching muscles and blistered hands. For weeks he dared not visit
town, but finally the victory had been and believed the curse had been driven The home he built was humble but wild roses grew at the door and great
trees sheltered it met him at T.-, and on an Easter Monay, in one of the great city churches
among the Easter lilies. linked her life fearlessly with his. cheering him when he was down-hearted,
thaking the bitter with the sweet in their
hard hard pioneer life and never flinching.
When there was plenty she was gay;
when want faced them she was brave.


For a Month - 15c One-Tenth the Cost of Meat
Nature's supreme food, both in flavor and nutrition, is the oat.
A pound of Quaker Oats supplies 1810 calories of energy. A pound A pound of Quaker


51,2 Cents
1000 calories


57 Cents
1000 Calories


Cents


54 Cents
1000 Calories


Thirty big dishes of Quaker Oats are served for 15 c . That's a dish a day for a in other necessary foods at this writing:

What 15c Buys-In Calories In Quaker Oate
In Round Stooik
In Fish About

In Veal Cutlots | 2800 Cal. |
| :---: |
| 340 |
| 300 |
| 275 |
| 215 |
| 200 |
| 200 |

Measure your foods by energy valueby calories. You will find that each dollar
spent for Quaker Oats buys as much as $\$ 10$ in meats.
You will find that Quaker Oats, in calory You will find that Quaker Oats breakfasts will immensely reduce you food cost. And they will supply you the greatest food As a vim-food and a food for growth it has an age-old fame.

Yet the best oalf food that was ever served

## Quaker Oats

With Exquisite Flavor This is rolled oats faked, from queen
frins only Hust the biz, rich, flavory
oats. Ne get but ten pounds from a bushel.
This selection means delightful flavor, yet

Two Sizes: $35 c$ and $15 c$-Except


Save $\$ 10$ to $\$ 30$ Each!
New Tires at a Big Reduction Sent Express Paid to any Address in Ontario-Subject to Examination. Here is an opportunity to buy absolutely new
tires- not seconds. at prices unequalled elseThese tires are the product of one of the
largest Canadian Manufacturers-they will give you more mileage per dollar than any
other tire-regardless of price. BUY BY MAIL!
fyou need Tires: Send us your order. We will ship
our reedirementsexp oses prepaiid to your nearest
Express Office CO.D.




Security Tire Sales Co.

fully. "He's so proud of a grandson
named for him that he ha forgiven us both, and oh David! ho hother has sent a big box of Eater lilies. We'll get them Tin the ler ter werding-day too. froped from her fins and here eyes grew very wisin for tender.
"They have a new meaning for me this year, for they have brought peace as well as a great gladness to us both. "And for me, too, they have a message They tell of a resurrected faith

## The Ingle Nook

 with communications. If pen name is also siven
the real name will not be published (3) When
enclosin a leter ater to be forwarded to anyone,
place it in stamped. place it in stamped envelope ready to be sent on.
a) Answorm one
answors to questions to ain appear.] Department for

A Great Englishman $T$ Thank Heaven for Philip Gibbs! reading some of his recent writings
upon the War, about which now that the time for censorship has been passed, the whole truth can be told.-It was gruesome reading, terrible reading. He told,
and is telling, week by week of thing awful beyond the words of ordinary men But philip Gibbs is not an ordinary man. reproduce for others, not only the scenes upon which he has looked, in all their
coloring, but the very emotions which held coloring, but the very emotions which held
possession of him as he looked upon them. He can give us War in all its horror,
shorn of glamor, and tinsel, and senseless glorification,-And so thank God for
Philip Gibss! Philip Gibbs!
and ghastly, and cruel, and senseless, and sordid, and unromantic War really is,
that mankind can ever be brought to build up firm walls against its ever
happening again. . The fighting men who come back are, for the most part,
dumb upon all these things. They haven dumb upon all these things. They haven't
the words. They want to forget. They seem to have a queer little feeling that
it is only a "piker" who will grumble much about the hardships-the awful
hardships-through which he has gone. hardships-through which he has gone.
But Philip Gibsh has the words-
words all bound with fire, and blood, and words all bound with fire, and blood, and
the naked souls of men when he chooses to use them; and, moreover, he has set
himself to be one of the instruments in killing War itself. All through those four through the fighting -armed with a pen
instead of a rifle, yet sharing all the dangers-talking with the Boys, going
into the trenches with them and out with them, standing where shells were falling, watching, and the soul of him saying
"I will tell all this to the world. I will make it see War, so that it will turn from
War for all time in the future awful hatred and dread.-I think it was
this spirit which upheld him through those long months of horror and weariness, and
danger.-Yes, personal danger every day for he was one of the very, very few
war correspondents permitted to where, and to see War itself and not its
effects only. The British Govenment knew Philip Gibbs, and knew that he was
to be trusted not to say the wrong word
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ his books have loen already Sueral of
and soon there will be another- the last
the fever disa not recommen hreaks out in
however, to ta bout it, so th s the feeding $n$ disease is so ser nurse speaks, nce before, anc on that experie
Since writing of a successful a uice for the
broths and cus mmaculate evening dress.. His hois very placid, but he had the movements of a writing man." He had he has himself, "a gestures of an orator. His voice thas, reason some folk confessed themselves
"disappointed."-Could they not see in spite of that, the uign they not see, in himself, and recognize the beauty of his language, and perceive the tremendous
import of his self-imposed task? one rather furious to hear these people
dismiss him so casually pause to wonder whether the made one get beyond demanding the gestures ever facial contortions of the movie actors. still remains Philip Gibbs Philip Gibbs with his placid voice and his moing about ful of all pens, ending ever in a wonderthough, after reading his story it were League of Nations so effective and so asting that never again shall our Boys launched by any Power, rifle-shot, and bursting shell, and being buried alive, and
burned by flame throwers and blistered with diabols, and poisoned But this is Easter season, the time th marked a triumph over Death long ago and, indeed, for all time, if we could but see. The other day I came across by Harry Emerson Fosdick ayd, offered in one of the great American Magazines It is so beautiful that I want to pass i

Fision, and of all nations, endue us with ision, and courage, and resource in Thee opportunity of the Kingdom. Guide ow Country, empower our churches, inspire and restrain ourselves and all men thal to discern the means most proftable to abiding peace and international concord, for leaders to point the way and for multi-
tudes to follow them, till all nations are one fraternity, we pray to Thee. Make real the brother hood of man, $O$ God, and
glorify our race in a fellowship of friendly sin of the world, after this Cafleryh by the sin of the world, after this Calvary, grant us,
we beseech Thee, an Easter Day and a triumphant Christ. Amen.
This-on behalf of us all.-Junia

Needle Points of Though
Only that people can thrive that loves the land and swears to make it tion element of human life, and if the public relation to that is false, all Edward L. Ced faster and "If a political and social millen. nium ever comes to this troubled old earth it will be because, league of nations or no league, the British English-speaking peoples of the world so will it. It will be because England and America pull together and

Flu Treatment
$T$
HE doctors, of course, have been
observing a great deal about the Flu since its frist appearance, and naterially. At first they said to give plenty of nourishing, but digestible it down to custard, broth, orange juice $m$ a nurse who has received a lette

## Founded 1866

 slight, young man,thities one would pale, wine would
smooth regular Then you hair, and and softened near
he would have felt our years of weerang
c t than in his very ress. His voice very movements of a had none helf,
hat
r. His voice onous, and for was,
nfessed them id they thomselves
gness of se, in
the the beauty of mis
ve the tremendous task? In made and made one
they could ever movie actors.
Philip Gibbs s. moing about ever in a plead (as
his story it were effective and so
in shall because of Woys bers, and poise, and
lol volical gases. eath long ago, prayer, offered can Magazines. ches, inspire Lost por writuctom
national con ay and for multi
$l$
$l$ to Theo Mak
nan, 0 Mat
 Calvary, grank us
ster Day and o

Though
an thrive tha
ears to make i is the foundaife, and if the social millen
is troubled old , league of ed States-the because Eng-
together and


解
the fever disappear not recommend you to try this if
breaks out in your home. I do ask yo however, to talk with your own octor
about it, so that he can find out if this is the feeding most approuthorities. The disease is so serious that one can take no hances with it. The doctor of whom the nurse speaks, went through a
once before, and is basidemic on that experience.-Junia of a successful doctor here who gives only water for the first two days, adds orange uice for the next two, and, after that,

House Plant Query
Dear Sir--In looking over the Farmer's
Advccate-I notice almost every week ketches that are very help pul on Herti-
sulture, etc. I am having quite a trouble with my house plants; they do not bloom they are quite moist, and a small worm eye, is in the earth. I removed one plant from the earth and put it in a fresh
pot and fresh earth and cleaned the roots with soap and water and it was not
long before I noticed more. If you could ive me any information on the subject.
would be very glad indeed. Is there any powder I Could get that would make
anem do better? $\begin{gathered}\text { Yours truly, } \\ \text { Mrs. W. W. E. Rowe. }\end{gathered}$
Vewton, Robinson, Ont. Soil for house-plants must be rich, else hand stable maniure in a pot in likely to to
cause worms, hence florists as a rule, pake the soil, behtore putting it in the
pots, long enough to kill any insects or
hsects erge worms n authority in floriculture, says he
prefers bone-meal as fertilizer for houseprefers bone-meal as fertilizer for house-
pants, as it is less likely to harbor worms.
You might try re-potting your plants nto baked soil, enriched with bone meal but be careful that you do not put too
nuch of the fertilizer in as that will people find that it helps house-plants oplant them in a suitable place in the
garden for the summer

## A Scotch Cake.

 S. MacD., Leeds Co.., Ont., verykindy sends, us the following reipe for
a delicious Scotch cake cill iche '". (I wonder if we have the spelling
rieht).
Since the Sotland, hee bids "Sandy" "look up and Gallaniche Cake.-Buter, $1 / 2$ cup; sugar
cup cream or rich milk, $1 / 2$ cup; eggs
 12 lb butter, 1 cup cugar. Mix, without
noisture, and bake. These "sound" so good that probably
few thousands of them will - be baked
n Canada this weels

## Easter Cookery

 Pooched Eggs.-To be perfect poachedegg must be tender and jelly-like in yhk a delicate pink showing through
the white. To ensure this pour boiling
water, plenty of it into water, plenty of it, into a pan, and put
the buttered ring in. Break the eggs
carefully ont hy in them intothe rings, drawing the pan away
at once from strong heat. Cover the pan,
and as soon as the eggs are done slip a
 a bit of butter and suptirinkling toast. put patika
or pepper on top of each and serve at once.
Epp on Egg and Sardine Salad.- Boil hard an
egn lach person. Coil remove shells,
and halve. Rob the volks fine and add mustarle, Ralt, cayenne and lemond juice
to taste, also 2 sardines minced fine. Fill
the
 Finely minced and highly on toasoned each.
or chicken may be used instead of the
sardines. Never drop hard eggs into
water ti.
-

 REGAL DORCAS WHITE WYANDOTTES

 Martin Port Dover, Ont.
SINGLE COMB WHTE LEGHORNS EGGS
from Tom Baror train, one fifty per setting J. E. Homomberger, Dunnvilile, R.R. 4 . 4 . per setting SLVER GREY DORKING. EGGS FROM A head of pen; $\$ 2$ per 13 . W. Shore, Ineetoh.


 SINGLE-COMB WHITE LEGGORN BABP



 antee nine echicks to a setting. H.W. Pringlo
Nupane, ont
TUREYS AND GEESE-WE HAVE THIS




 Ve dollar, per eetting. Stock for eale.
MC Cafrey Newmate., int
WHITE WYANDOTTES BRED For TYPE BABY CHICKS of Quality
 Wall put Glen Poultry Farm

## BABY CHICKS


 LUCKNOW HATCHERY LUCKNOW - ONTARIO BARREDROCKS



1 beaten egg, 1 tablespoon butter (melted) easpoon soda, 1 teaspoon cream of up raisins. Mix together the milk egg, butter, sugar and salt. Add the
soda dissolved in a tablespoonful of water. hen the flour and cream of tartara sifted oonether. Stir in the cornmeal and
aisins, and bake in a moderate oven alf a a hour Carrols Win a moderate oven Carrols, With Sauce.-Clean and cut
arrots in half-inch cubes. Cover with
boiling salted water and cook until ender. Drain, keeping the water for the sauce. Make a sauce using this ugar and nutmeg, with butter and four o thicken. There should be just half is much saure as vegetable. Pour
oyer the carrots and cook together for 5 minutes. Serve very hot. when properly cooked, especially when
served with greens, cabbage, kale, Brussels sprouts or turnips. The secret
is long, slow cooking. If you let the water
$\qquad$
saucepan with enough cold water
o cover it. Let come to a boil a nd boil
riskly for half an hour then draw to the
briskly for half an hour, then draw to the
ack of the range and let just simmer,
aovercd closely, for $31 / 2$ hours or more.

## Maxis fun



 "DAIRYMEN WANTED MUST BE GOOD
milters at Speedwell Hospital, Speedwell, Guelph
Ontarion OOR SALE-200-ACRE FARM, FIRST-CLASS condition builingre inarkM, FIRST-CLAS
ortis, Box i42, Springfield, Ont. Apply F. H. MAN TO OPERATE TRUCK OR FURNISH
tean to oolldec cream and produce. State rate
tpected and references. Box 27 . Farmer' Ald
 SINGLE MAN FOR GENERAL FARMM
work. Apply, stating experience, age and wage
expected, to Prank Strong, Gorrie, No. 1, Ont. $\frac{\text { experted, Apply, stating exper ience, age and wage }}{\substack{\text { Arank Strong, Gorrie, No. 1, Ont. }}}$
 to si20 per month. Also teachers for next tern
Western Teachers' Bureau, Winnipeg, Man.
WANTED-EXPERIENCED SINGLE MAN
for stock farme good with horses and cattle. for stock farme, good with Horses and Mat catle.
State wages expected. Box 272, Mitchell, Ont.

## Alfalfa Seed

 good quality, at only ${ }^{\text {s2 }}$ per bus.
Burnside Stock Farm
$\begin{array}{ll}\text { Burnside Stock Farm } \\ \text { Canboro, } & \text { Ontario }\end{array}$ Ontario

## GUERNSEYS

 FOR PROFIT| ,ictuativiviti |  |
| :---: | :---: |
|  |  |

INSURE YOUR
LIVESTOCK
Mares, Stallionss and Coutlie.
For rates and natiticule. J.A. Caesar. Lumsden Blg., Toronto, On

SILK--All Fancy Colors



## Seed Potatoes

|  |
| :---: |


| it will not dry out until all is used.The cheaper cuts of beef rump and brisket, may be used for |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| brown supar, 1 gal. cold water |  |  |  |  |  |
|  |  |  |  |  |  |
| pare eot |  |  |  |  |  |
| Herest |  |  |  |  |  |
| above to |  |  |  |  |  |
| Let stand in |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Putting Away Winter Clothes

## M

 THS are attracted ly dint, thegrease and damposes, putting it awayshed Remove cleaned lefio putting it away. Remove all grease sper
with French chalk or any of the propran
tions sold for removing spots-" 'carthond tions sold for remoring spots carthon
is good. Where there is enough storag
room a good idea is to put dresses, ett



The Scrap Bag. Early Shrubs Worked in about early chicken-manure will be found a benefit. flowering shrub

Wear an oilcloth apron when working ng at grden. If you kneel while work
nacking the garden rows you may find a
acking cushion filled with straw coll
Jrtable in keeping dampness awa
Have all garden tools sharp an
Forcing Spring Delicacies.
Aay be had from of rhubarb and aspargus
sua by putting a bor or barrel without
op or botom over the roots and banking
about with frech horse mand
the top with muslin to retain most of the
Take out of thersnips.
parsnips left over in it since once any
They
They are good now (provided it is their
first year in the gound), but if permitted
to grow at all they develop a pioson that
nakes them unfit and even dan
Old White * ${ }^{*}$ *esses.
Old white dresses may be dyed any
color one wants, and sogiven a new lease
of life. This spring the skita
of lif This spring so the skirts a new lease
of be tengthened a litile and mave
ower, If a new facing has to te pute nat- on
se white, and make the dress ready for
Washing Lace Curtains
Wadays, preference beikg very well
oile, scrime, sunfast"linens, Indiven prints
apancss. cotton crepes, heavy net, and
pongec. If, however, one has some odd lace
curtains one is 'wearing out, "it is well
urtains one is "wearing out, ", it it id well to to
noow how to wash them so they will look
Press out in cold soft water over night.
Corning and put into
rdted. Bring slowly to a boil and boil 15
or 20 mininutes. Rinse thoroughly through

olved in a little hot water. arabic dis-
tarchin not use
thin io is athost impossible to uset
to keep themo from looking



## Current Events. <br> Quebec has decided by a considerable majority for the sale of beer and light wines. Michigan has voted by a big majority to keep "dry" as regards these <br> on the liquor question was introducedinto the Ontario Legislature on April 11 by Premier Hearst. By it women willby Premier Hearst. By it women willmitted to all British subjects who are21 years of age and have the usual residence qualifications. <br> The British Columbia Electric Rail-ways Company has put $\$ 50,000$ at the disposal of its employees to help themdisposal of its employees to help thembuy or build homes. <br> re ItBethmann-t to try former ChancelloAdmiral-Hollweg, Gen. LudendorffForeign Minister) and, Jagow (former2 an investigation, with ors. On Aprilfrom the British, French, Dutch ativesNorwegian Governments, was begulto investigate the case of Capt. Fryatt,was put to death by the Germarine; whoties in 1916 after a German authori-matrial had convicted him of trying toram a German submarine with his ship. It was decided on A rileIt was decided on April 9 , by the Council of Four, that the Kaiser will aperof Four, that the Kaiser will appear beforecharges of violation of internationalmorality and sanctity of treaties. Hebut will not be permitted again to be free.

been set aside as a public holiday to bedevoted to the planting of memorial trees.Executive of twelve men, of the Petrolea,Executive of twelve men, of the Petrolea,
Ont., Chamber of Commerce.
if help is not speed
become disastrous.
selected as the permanent seat of the
tis now believed impossible for peace

## An Easter Message.

 When spring unlorks richardson. When spring unlocks the storehouseWhence Easter Blessings fow, Athrob with joy expectant All nature seems aglow. E'en where the snow lies thickly In many a woodland spot,
Out from its hood of purple

Bravely the bloodroot pushes Its way through leaves of brow Arbutus, subtly ragrant,
Displays her Easter gown From tree to tree the squirr Pursues his frisky mate,
While rabbits from their burro Seek to investigate

From winter stalls the cattle
With restive feet declare With restive feet declare
A vague unrest and longing That permeate the air; And, as the barn doors slowly They hiew in silent wonder The miracle of Spring.
There is an Easter message When through the fields and woodlands Wonce more the dumb roam free. Partake this Easter joy, Let not man's hand destroy!

Smiles.
Not In It.-Old Uncle Jacob was walk-
ing majestically up and down the village ing etreet dressed in his Sunday suit. "Hallo, Uncle Jacob," cried one of his neighbors, "are, you having a holiday?" "Yes, I
am,", 'replied Uncle Jacob, proudly. ""'m celebrating my golden wedding. "Then you?" said the man. "She ain't got
aught to do with it," replied Uncle Jacob indignantly. "She's the fourth."

At a dull "author's reading" in a
London house, the hostess mercifully allowed her husband to slip from the room In the anteroom he was indulging himself in a prodigious yawn, when he saw a footman fast asleep at his post near the
door. He stepped over to the man and, a wakened him.
twinkle in his eye, "I'm afraid you've been listening at the keyhole!

Time is a relative quantity. Some minutes is a reem like hours, quand some hours seem like minutes. How to control this.
flight is beyond most persons, but the flight is beyond most persons, but the little boy mentioned below seems to have progressed pretty well for a youngster.
The teacher was surprised to see that he remained perfectly idle all through
recess, and acrordingly asked him why recess, and accordingly asked him why
he did not play. he did not play. "Cause," he said, slowly, "it makes

## Message

 sichardson. essings flow, ectanttyow
lies
lies thic nd spot
nd spot
purple
t pushes
rant,
r gown
r squirr
squirr
mate,


At the lunch hour we heard this con-
versation between the office boy and his
evidently
$\qquad$
$\qquad$
$\qquad$
"Why don't you get out and hustle
$\qquad$

## The Windrow

The first dinner ever held by women law students in 1oronto, was given on April
2nd.

Sir Oliver Lodge has announced that he will resign as Principal of the Uni-
versity in Birmingham in June, as he
wishes to devote the rest of his life to the problem of the Ether of Space, in both its physical and psychical relations.

Sir William Crookes, famous English scientist, died in London on April 4. Among discovery of thallium, a new element, and valuable experiments with electricity siderable attention to psychic phenomena, which he endeavored to correlate with The cost of the war is now placed at
$\$ 197,000,000,000$, with a death roll of $9,000,000$.

Canada has had about four hundre pictures painted to commemorate Cana manufacture of munitions and airplanes to the fighting of the great battles. The work was done concurrently with the War ncluding Wyndham, Lewis, W. Roberts, ally the pictures will be brought to Canada, where they will form a permanen Oar memorial

Horticulturists of Chatham, Ont., have own one of the most beautiful on the
Continent. Is not this praiseworthy mbition one that should be followed by community in Canada. There never has been and never can be jealous rivalry
over the planting of trees, shrubs, vines bese beautiful gems of Nature eft of sweeten and ennoble character. Can we ford to do without them?

Apropos of the foreign names seen inn Fein activities, The Australasian Kipling's entertaining story of Namgay oola suggests that you find the Irish in papers during the recent election campaign
shows that Ireland isn't by any means the rest place to look for them. It seems to etess tike Enniscorthy and more like an
inter directory every day.

Strange are the good old Irish names
That come from College lawn
For De Valera somehow sounds
Like "Sella de banawn.
Make Erin's exiles stare,

## And though they come of Irish stock,

They never heard of Marcovicz It's sad to see so many bo
Without the prefix $\mathrm{O}^{\prime}$ '.
Stands Ireland where it used to once?


Any time I I want to., get to work?"
'Aw, go-wan! Whatcha tryin' to do stuk ..I boss, replied

## THE FARMER'S ADVOCATE

Our Friend, the Brush.
$\mathrm{H}^{\text {asin }}$,

 way, assuredly, must the first brush of
broom have been made.
kind, and we have brushes of ever are very great savers of purpose. and yet
in many homes one might search from cellar to attic and find no more than three-a broom, a large scrubbing brush brushe. are not expensive at least wers not before the war, and are n
comparison with other things.

Often the scarcity of "our friend, the
brush", is due brush," is due to one's not knowing
just the kinds of brushes that may be bought.
stiff brushes everyone knows the little stifl any of the Knox are to be bought a Everyone, however does not know the various uses to which they may be put. If she did she would keep at least three or four on hand all the time: one beside the kitchen basin, to be used for the
hands, one for scrubbing vegetables and others for washing glassware and granite utensils. Cleaning celery be comes an easy task if one has a brush for baking with the skins on, or getting carrots, beets, parsnips or salsify ready for the pot. And glass never glitters so well as when cleaned with warm soapy water and a brush, followed by a good
rinsing in clear water.

If one has much to do with cleaning bottles and sealers a round bottle brush will be fond wery great help will be found a very great help. A
large brush of similar form is made for cleaning toilets, and will be found in dispensible in any rural home that supplied with a waterworks syster.
bath tub brush, with a can of "Dutch Cleanser" or ammonia will make keeping Dutch" or a can of ashes and salt mixed should always be kept with the brush used for granite ware and other pots and pans.
Such little helps save more time and labor than can be easily estimated.

Hardwood floors, or the stained
painted borders about rugs need painted borders about rugs need, the greatest labor-savers for the house keeper. If one has not one of the patented mops, made of heavy cords, one can make a very good substitute by fastening mop fixture, afterwards moistening the cloth with onal oil, or, still better, w the O-Cedar or other oils used or patented mops. For polishing hard
wood floors after waxing a large brush or the purpose may be bought. It is
fitted with a heavy leather strap through which the foot may be slipped so that foot-power may be used, if wished.
a brick padded all over and covered with lannel makes a
but is harder to use
For dusting upholstered furniture stout whisk will be found very useful,
but the furniture should be taken out of doors where the dust can blow away. Afterwards the woodwork should be
dusted with a soft cloth treated with dusted with a soft cloth treated with
kerosense or O-Cedar. Best of all brushes are the vacuum cleaners, which not only brush the dust
out of rugs, upholstery and from walls and curtains (if equipped with the proper fixtures), but also draw the dust right up hino a bag, so that it can be carried to the
furnace or stove and burned instead of furnace or stove and burned instead of upholstery free from moths, as they draw the moths and "buffalo bugs," up as well use where there is no electricity require
two to operate them, one to pump and the other to direct the nozzle. If electricity
is available only one operator is required.
a very good electric cleaner can be bought A very good electric cleaner can and will be found inwith electricity as many are at the present
time and more will be when things


## Coupon

THE WILLIAM WELD CO., LTD.

## GENTLEMEN:-

Enclosed is money order for 81.50 and the name of a new.
subberber to the Farmer sidveate nad Home Manazine.
Hpease send the Sanitary Kitchen Set you advertised
Address..
Name of Send
Name of new Subscriber ..................Address..

Keep the mud OUTSIDE your car!

DENISTEEL
AUTO MATS

## \$3.00 per pair

delivered free
They come to you, complete, all ready to olip on, and are the finest thing in running-board
improvments. Remit by express or postal order at our risk. Money fefunded if not gatiffied The Dennis Wire and Iron WORKS CO. LIMITED

LONDON

Extracts From A "Dairy Show.
At great is S. National Dair nany interesting speeches were delivered As the following extracts and observa-
tions apply to Canada as well as to the tions apply to Canada as well as to the
United States, they are here given with leasure
Mrs. Ira Couch Wood, Chairman of the Council of Defense for Illinois, called at ention to the fact that the country is spending great sums of money every year
to take care of cows, pigs, horses, chickens and so on, and not nearly enough to take rinning to apply the same science to the inning to apply the same sciencels," she aid. "One great eye-opener has been the xperience of the draft. From one-third a half of the young men examined wer y when the test came. I do not be ieve we are working for the children hould work as much to make them In the United States a great campaign being undartaken-to save 100,000 hildren who die from preventable causes Every year. Everywhere Child Welfare
ganizations are setting to work, and organizations are setting to work, and
hildren under 6 years of age are being
been in the clinics held in some places in Canada. By these examinations, in
which nearly $7,000,000$ so weighed and measured, a large number of children have been found not up to the standard.
Commenting on this Mrs. Wood says:
"One of three things One of three things is the matteror they are not getting the right kind of food, or they have physical defects which growth. We have a very small percenta of people who cannot secure enouch food is not a matter of poverty but of
gnorance. Parents need education and re-education to bring home the fact that and that the proper food in the majority of cases will bring the child up to the "Our children should be 100 per cent perfect,' she continues. Of course, some proper feeding works wonders. "It means milk and butter and plenty of green vegetables, very little meat. "In most families, the baby of two ears takes his chance with father at the what father likes. A child of two years ares very ill at the family table. You

were 18,600 head, as compared
16,061 head for the week before 16,061 head for the week before, and
11,400 head for the same week a year ago.
Calves.-Last week started with top
veals selling at $\$ 20.50$, and culls ran veals selling at $\$ 20.50$, and culls ranged
from $\$ 17$ down. Some heavy declines, however, were noted after Monday,
Friday was the low day, when tops landed at $\$ 18$, and culls ranged from $\$ 13$ down. head, being against 5,309 head for the same week a year ago.

Cheese Markets.
New York, specials, 32c. to 331/4;
average run, 3112c. to 33c.; Montuel, average run, $311 / 2 \mathrm{c}$. to 33 c

Sale Dates.
May 14, 1919.-Jos. Dorrance \& Son,
R. 5, Seaforth.-Dual-purpose Shorthorns June 12, 1919.-National Ayrshire ConJune 13, 1919.-New England Ayrshire
Club consignment sale, Springfield, Mass Club consignment sale, Springfield, Mass. Sam, the choreman, returned from the
city with a scarfpin that contained a "diamond" of no usual size. It was the village companions. He treated all in-
quiries from them as to its value and its authenticity with high scorn.
His employer, after a week of basking in its radiance, asked Sam about its "Sam," he said, "is it a real diamond"" skun out of a half-dollar.

A poor man, who had hardly been able
to clothe his wife and family properly one day hit upon an invention-some, thing to do with airoplanes-which he
sold for a good round sum. The poor man went to his wife with
tears in his eyes. "At last, my dear," he cried, "you will
be able to buy yourself some decent "I'll do nothing of the kind," she re-
torted. "I'll get the same sort the rest "Royal Purple
Any Farmer can increase his income by sele selecting one or two callves each season to make baby beef

Mr. Farmer, if not yourself, give your boy a chance to make something for himself on the side.

MABEL. - This excellent Cross-bred Angus-Shorthorn heifer (shown in
photograph) was born November 5th, 1917. At thirteen months and thirteen days old weighed 990 pounds, and
sold to Anderson Bros., of London, for baby beef, for which they paid 25c. a pound, live weight. This calf was fed
"ROYAL PURPLE" Calf Meal. It was fed and bred by Mr. Andrew Hicks, of Centralia, Ontario.

Mr. Hicks also raised BILLY SUNDAY, Which he sold at Toronto Fat Stock Show, on
December 8th, 1918, at auction, for 25c. a pound, to the Harris Abattoir. Billy was
fifteen months five days old and weighed 1,330 lbs. Said to be the heaviest calf at his age
ever seen at the Toronto Fat Stock Show. He was also fed ROYAL PURPLE throughout the
year. Mr. Hicks fed 2,100 lbs . of ROYAL PURPLE
CALF MEAL to all his calves last year. There is something wrong with the farmer's reasoning or figuring if he uses new milk to raise
calves. Calves can be raised on our Royal Purple Calf Meal after three days old, just as well as
on new milk, at $30 \%$ of the price of new milk. This we have proven beyond a shadow of a

Made by THE W. A. JENKINS MANUFACTURING COMPANY, LIMITED, LONDON, ONT. the week before, and week started with top 20.50 , and culls ranged
Some heavy noted after Mondiz, day, when tops landed ranged from $\$ 13$ down week aggregated 7,, ind
st 5,309 head for the nd 5,800 head for the

## Markets

cials, 32c. to $331 / \mathrm{cc}$ c. to 3c., Montrea Dates
Jos. Dorrance \& Son National Aytshire Con ngfield, Mass. ale, Springfold Ayshin an, returned from the in that contained and the envy of his
and He treated all in
s to its value and sto its value and it
ith scorn. er a week of basking Sam about its is it a real diamond? "if it
had hardly been able and family properly, iroplanes-whion 1 sum

urself some decent
the kind," she re aram!
aring!

## ea

e baby beef
f not your y a chance g for him-
llent Cross-bre r (shown November 5th 90 pounds, and of London, for hey paid 25c. Meal. It wa drew Hicks, of

LLY SUNDAY, ction, for 25 c . a
a ttoir. Billy was calf at his age throughout the OYAL PURPLE ou why our meal will
ner meals taken from ON, ONT.


## The Appearance of any Room Depends upon the Floor Covering

Many people are now replacing their carpets with Feltol-the moderate priced sanitary floor covering.

Soft wood floors, in spite of every effort to keep them presentable, never look right. Instead of constantly repainting them, use

## Feltol <br> art FLOOR COVERING

Although it resembles linoleum and floor oilcloth in appearance, Feltol is quite different in character-and much less expensive. Made on a felt base-instead of canvas, which is invariably used for oilcloths and linoleum-Feltol is resilient soft and quiet-agreeable to the tread.

It comes in many delightful patterns.
Remember, Feltol is not linoleum nor floor oilcloth-it is the best felt base foor covering made-superior to the best imported, yet much lower in price

At all the better stores where
floor coverings are sold.
MADE IN CANADA


TERE are many things which you need not buy unless you choose. But footwear is not one of them. You must have shoes. And the problem of buying shoes is one which comes home to every man and every woman in Canada.
In order to help you solve this problem, we have prepared a booklet with the title given above. We believe that you will find it helpful and interesting, whether you buy A.H.M. Shoes or not. And it is not necessary to buy A.H.M. Shoes in order to profit by the information which is contained in it.
We are glad to send a copy with our compliments to any address in Canada. Please send your request to our Head Office, at Montreal.

AMES HOLDEN McGREADY 'Shoemakers to the Nation'" 6T. JOHN MONTREAL EDMONTON
mellórone



## Your'Walls

Use it instead of wallpaper, as it expensive.
Use it instead of Kalsomine, as it washed.
Use it instead of ordinary paint, solid in color, it is dainty in tint with the soft, velvety effect so

## LOWE BROTHERS, LIMITED TORONTO

## Plant These Tested Seeds

and let them prove that Quality is more important than price. Let them make your vegetable garden a success, and show you that it pays to put in


Everybody likes sweet, juicy corn in summer. And these two varieties are guaran-
teed to give delightful dinner dish. Plant them. SUGAR CORN Golden Bantam pkt.
10c. 1/21b. 5. 1b. $\left.\begin{array}{r}\text { Postpa } \\ 60 \mathrm{c} . \\ \$ 2.25 \\ \$ 2.25\end{array}\right)$ W0c. $50 \mathrm{c} . \quad \$ 2.25$ Order everything you need for a garden in these make selections. Write for it.
RENNETH McDONALD \& SONS, LIMITED
Ottawa, Ont.

$$
+2-2
$$

- 

exists, and sends, therefore, to lessen the expectation for marked co-operative de-co-operation in Canada must admit at once that progress in co-operation has been accelerated during the war, and that the spirit of mutual help has gained much An association enables the breeders to co-operate in buying. A group of farmers can buy a sire in partnership and use him collectively. This is a great economy over the plan of several farmers butying only ten or fifteen females. Moreover, if a large number of stock is to be purchased for the community, a saving can be realized by having a representative committee purchase the stock. This not ony applies to buying but to selling as
well. We have association or club sales, to which members have the privilege of consigning individuals they may have for saly This co-operative work may not
apply to live stock but to all pro-

FOUNDED 1860

## ME 8 <br> 11s <br> ause of its wonderful icate colors, exact re- of nature's harmony <br> use it is very easy to in cans of different like paint, and looks <br> we Brothers' dealers. lor card and nearest <br> IMITED

Seeds
important than


## 

, therefore, to lessen the marked co-operative de-
anyone who has followed Canada must admit at ess in co-operation has during the war, and that
tal help has gained much than it held before. enables the breeders to
ing. A group of farmers ing. A group of farmers is is a great economy
several farmers buyying ires and using them on en females. Moreover, ommunity, a saving can laving a representative uying but to selling as ociation or club sales, to As they may have for e stock but to all pro

ApRIL 17, 1919
ducts in connection with agriculture, such as the hates, etc., also the buying of feed in large quantities for the farmer, of which the a Canada may easily place herself in the way of attaining a powerful place in the we cannot achieve by careless breeding, which largely accounts for inferior and unprofitable stock, no matter in what industry an individual or country may be engaged. one that readily finds a market at top prices to produce the uniform, highquality stock to provide for breeding purposes, we must use the sires and do this and to do it thorughout a widespread area, as would be consistent with the great overseas demand, we must enlist the services of the fellow 'who would but cant. The farmer who would like to but cannot produce more standing, must help each other. - They operative breeding must be adopted. Work along these lines will not only bring substantial personal rewards but will on a more sound and substantial basis. M. A. Powell.

Co-Operative Experiments in Weed Eradication.

Editor "The Farmer's Advocate" This experimental work was com-
menced in 1912 and has been conducted now for seven successive years. The object of this work is to have carried on by men on their own farms experiments of which will furnish weeds, the results definite informarnish datā from which regarding the best methods of controlling the various trout esome weeds of the Province. Before the results of these was very little or no definite knowledge concerning the eradication of weeds. Perennial Sow Thistle, Twitch Grass Bladder Campion or Cow Bell, Wild Mustard, Ox-eye Daisy, Field Bind-
weed or Wild Morning Glory, Wild Oats and Ches. Morg Each spring leaflets are sent out to viting all who have any of these trouble-
some weeds on their farms to co-operate with us in this work and try the experi which is giving them trouble. Applicathe leaflets. To those who fill in these and return them detailed directions for selected ang out of the experiment supplied with blank forms on which to In the past seven years (1912-18) over sixty farmers have co-operated
in this work and some valuable information has been obtained. It may be 1. That good cultivation followed by rape sown in drills provides a means and Twitch Grass. crop to use in the destruction of Twitch
Grass than Buckwheat 3. That thorough, deep cultivation cared for hoed crop, will destroy Bladder 4. That Mustard may be prevented by spraying with a 20 per cent. solution of iron sulphate with per cent. solution to the standing crop or to fresh seedings The following are the experiments 1. The use of rape in the destruction and cultivation, using winter rye followed by turnips, rape or buckwheat for eradi3. The use of Thistle. 4. A method of cultivation fortraction d. A method of cultivation for the
destruction of Twitch Grass.
5. Method of eradication of Bladder Campion or Cow the
Bell.

THE FARMER'S ADVOCATE


## 约

 Paise Every Livoble Chick

When writing advertisers will you kindly mention The Farmer's Advocate.

777


# Nitrate of Soda Increases Crops 



No Soil Is Inexhaustible. If sold off the farm, every load of hay, every bale of straw, every bushel of grain, every bag of potatoes, every barrel of apples, every crate of berries, every basket of onions, every hog or sheep or cow or horse, every chicken or duck or turkey, every dozen of eggs, every quart of milk deprives your soil of some of its fertility.

This must be replaced by Fertilizers in some form to restore fertility
${ }^{\text {A }}$ A linururiant growth the result of


Nitrate of Soda is a refined product extracted from the surface crust of the rainless deserts of Chili in South America. Hunhave been used annually in BritHave and European agriculture for a
ish and
long period and this fact explains in a long period and this fact explains in a large measure the remarkably high yields attained on their century -old
soils. shis
In Canada and the United States its use increases at a rapid rate.
Farmers, fruit growers and gardeners are adopting the practice of the Old Country more and more yearly.
Nitrate of Soda furnishes Nitrogenthat most expensive element of Fertil.
izers-in its most available form. It far surpasses tankage, blood meal feed cake refuse and such nitrogen-
bearing fertilizers in this respect, and bearing fertilizers in this respect, and
also in its economy.
It is recognized also in its economy. It is recognized
as the Nitrogen plant food par excel-

Try a Spring Tonic for Your Crops: You have seen small patches of luxur manure or urine of the cattle-This is the work of Nitrogen.
You have seen the house plants of some flower-loving Homemaker grow
and thrive from the judicious use of $\frac{\text { maniure-water-This is the work of }}{}$ Nitrogen also.

## Some Advantages

 and Uses of Nitrate of Soda It stimulates the rapid growth and early maturity of most garden cropsIt makes plants resistant. Plants made strong by vigorous early growth can better resist drought, attacks of insects and plant diseases.
It increases yields of special crops. It is of great importance in the production of sugar beets, fibre plants, fodder crops and tobacco. plied as a top-dressing it increases the growth of the grasses and clovers greatly.
Sometimes crops are checked in their spring growth
owing to the delayed action of the owing to the delayed action of the soil spocteria. The
Nitrate keeps the plants prowing until the Nitrate keeps the plants growing until the soil is
stirred into full life. tirred into full
It provides the highest-priced ingredient of complete
fertilizers. Phosphoric Acid and Potash which fertilizers. Phosphoric Acid and Potash which are re-
quired by plants as well as Nitrogen, are not so costly quired by plants as well as Nitrogen, are not so costly
as the Nitrogen nor are they so often lacking in oun soils as is Nitrogen.
It forms basis of fertilizer mixtures. It is estimated more than made fertilizers cost from 25 to 35 per cent agriculturist will buy his supplies of Nitrate of Soda cid-Phosphate and Potash separately and make suc mixtures as he knows his soils and crops require.


There was no Nitrate of Soda used
on this crop. The stalks are weak.


Nitrate of Soda supplies Nitrogen to plants even more readily than does
manure. Backward pastures are stimulated into vigorous growth. Struggling fall wheat or spring crops are forced to grow; they do not have to wait for the bacteria to unlock the
stores of plant foods held in the soil Stores of plant foods held in the soil. leafage. Vegetables in the garden
shoot ahead. Lawns are made greenshoot ahead.

Use Nitrate of Soda as a Spring Plant Food

The element of plant food first ex hausted in soiis is Nitrogen and i is obtained by top-dressings of Nitrate alone. However, the skilful farmer will use it with Phosphoric Acid and the necessity of the crop indicates.

A comprehensive report on "Nitrate of Soda, its nature and use in agriDominion Department and appeared in last week's edition of this publication. It has been prepared by Frank Chemist, and B.A.D.Sc., Dominion Chemist, and B. Leslie Emslie, F.C with Fertilizers. Write to-day for a copy of this report. It shows the value of purchasing fertilizers in pure
form.

Price and Instructions for Ordering. The Nitrate of Soda is stored in Ontario at The Price is $\$ 82.00$ per net ton in carload lots, f.o.b. cars at shipponton, Cobourg, Trenton, Nobel and Sulphide of selecting the shipping point.
In less than car lots the price will be $\$ 9.00$ per bag weighing approximately 200 lbs . each, f.o.b. shipping
point. Ninimum shipment five bags. All orders must be sent to Imperial Munitions Board, 56 Church St., Toronto, and each order must be accompanied by a marked cheque or money order for full amount of the purchase. Cheques and money ordcrs should be made out in favor of Imperial Muntions Board, and must be payable at par in Toronto your nearest railway station. All shipments will be made promptly. Freight charges will be collected on
Uelivery
Imperial Munitions Board, 56 Church St., Toronto, Ont.

Aprie 17, 1919
Live Stock Notes From England.
Extraordinary prices are being made
for Shire horses at repository sales held Babingley Nulli Secundus is in remarkable him offered at Peterborough Repository there fetched $1,000,825,725,640,500$
and 400 guineas. Fillies made 825 and 450 guineas; and brood mares 650,560 ,
500 and 450 guineas in profusion. I am told by the War. Office that since
the Armistice was signed up to March 21, 62,520 surplus army horses have been sold for $£ 2,075,858$, or a general average.
of $£ 334 \mathrm{~s}$. Heavy draft horses for agricultural and street work have averaged $£ 55$,
but some have made $£ 100$, and one, an American-bred Percheron gelding, has trast, Shire geldings generally range from work always fetching the second century of guineas. Shire horse breeding is
flourishing apace in England and Wales, flourishing apace in England and Wales, prefixes have been registered during the past two years, which would go to prove which they tack on to the names of their horses are intending to breed on a sometons of paper to print the last volume of
the Shire Horse Society's Stud Book! It contained 7,500 entries, or some 2,000 more than the previous volume did.
The class of farmer which is joining the Society in greatest force is the tenant ing from one of the large landed proin a flourishing condition.
You have few Large Black pigs over in and the type is just now growing very
popular in England. At a sale on March Cambridge, 146 pigs realized $4,4951 / 2$ guineas, or a general average of $£_{3} 327 \mathrm{~s} .3 \mathrm{~d}$
Top price was 175 guineas brood sow Drayton War Lady, farrowed ners at the Manchester Royal Show in
1916 . gulineas, but Alderman Ball, of Nottingairman who was killed after performing guineas for the gilt Drayton Ladylike. of that name, Lord Cawley paid 900 Weston \& Sons Bound's Imperialist by Conquest, out of Gossip, a Sentry cow
and a well-fleshed bull full of substance.
Other guineas paid for young bulls, for which breeders. Albion.
$\qquad$ John," he said, "how is it I have not seen, you at church for several Sundays?"
"Hain't got no Sunday trousers," answered John. "Well," said the clergyman, "I think we can remedy that. I have a pair at
home which will just about fit you, and will have them sent to you to-day.' The trousers were duly sent, and the following three Sundays John was seen at church. Then, after being absent
for some time, the clergyman again met "Well, John," he said, "you have no excuse for not coming to church lately
How is it I have not seen you there?" "Look here, parson!" said John. '" you mean; you're thinking about them days, an', if you don't think I earned more Sundays I shall ha' to come afore altogether!"' to come afore
$\qquad$
$\qquad$

THE FARMER'S ADVOCATE.
SARNIA FENCE Lower Prices on Fencing
 demand this Spring will far exceed our capacity, in fact, the capacity of any factory in Canada. Don't be one of overcome possibletransportation delays, shipping congestion and other interruptions that follow the breaking up of Spring
when the fence building season is on. It is to your advantage to have your fencing in hand for use the first available "fence day" that comes along. Better be safe than sorry. Place your order now. Our prices quoted mean Goverfment standard
gauge wire, prompt shipments, best quality, lowest prices, only two profits-yours and ours-a direct shipment from the
factory on our prepaid freight plan, fencing fresh from the loom, new and bright, no better fencing made anywhere. Ask factory on our prepaid freight plan, fencing fresh from the loom, new and bright, no better fencing made anywhere. Ask
$t$ he man who uses Sarnia Fence. He knows.
Buy Now and Save Time and Money. on Your Spring Requirements Take Advantage of Our Low Prices and Prompt Delivery
NOTICE-These prices include freight prepaid to your nearest station in Old Ontario in lots of 200 lbs , or over. We do not pay freight on Electric or Steamboat Lines. Write us for special prices on carlots, as a
considerable saving in price can be, effected as compared with L.G.L. shipments. Fence put up in considerable saving in pry
20,30 , and 40 rod rolls.


More than eight million rods of "Sarnia Fence" are in use on "Canadian Farms."
The purchase of this Eight Million rods of Fencing has saved the farmers of this country more than $\$ 500,000.00$, "The Sarnia Fence Company's" "Direct from Factory to Farm" policy is directly responsible for effecting this handDo you wish to share in the benefits that so many others have derived from this "Direct Buying Policy?" We solicit ur business entirely on the basis of co-operation.
If You Use Wire Fence Read This: The wire used in the manufacture of Sarnia Fence is made in the United States by the largest makers of wire in the world. Their product is recognized as the standard of the world. The Canadian
Government stipulates the size of wire which will be allowed to enter Canada free of duty. No. 9 shall be over .140 and not exceeding . 148 of an inch in diameter, consequently it is impossible for manufacturers buying their wire in
to use under-sized light wire, but must import full Government Gauge Wire.
If you are placing an order be sure you are getting a full gauge fence such as SARNIA FENCE and not a light weight.
Prepaid freight prices are quoted in Old Ontảrio. New Ontario, Quebec, Maritime Provinces four cents per rod extra Our office at Winnipeg takes care of all Western Canada business. Get our descriptive literature and let us tell you exactly what kind of fence you want will cost laid down at your home town. This is your fence factory. We are the farmers pasture fence, lighter weights for garden and orchard purposes, special poultry fence, lawn fence and gates in
styles to suit the requirements of our farmer friends in Canada. Made in Canada for Canadian farmers, sold direct on
one OUR POLICY-To sell the Farmers of Canada the BEST FENCE it is possible
make at the LOWEST possible Price. Send your orders to our Factory. Address us SARNIA FENCE CO.


Look for the Rennie Seed Display
It's time to think about planting your garden. Make your selections now.

VEGETABLE SEEDS
BEAN-Improved Golden Wax BEAN-Scarlet Runner $\begin{gathered}\text { Lb. } 90 \mathrm{c} ., 1 / 4 \mathrm{lb} .30 \mathrm{c} ., \mathrm{Pkt} .10 \mathrm{c} \text {. }\end{gathered}$ BEET-Detroit Dark Red Turnip
$1 / 1 / 1 \mathrm{bb} .85 \mathrm{c}$., Oz. 25 c ., Pkt. 10c. SWISS CHARDy/ib. $\$ 1.25,0 \mathrm{Oz} .40 \mathrm{c}$., Pkt. 10 c . CABBAGE-Early Winnigstadt
 Carrot-Early Gem or Oxheart
$1 / 1 \mathrm{lb} .90 \mathrm{c}$., Oz. 30 c c., Pkt. 10 c . SWEET CORN-Golden Bantam
Lb. 55 c ., $1 / 6 \mathrm{lb}$. 20 c ., Pkt. 10 c . CUCUMBER-London Long Green CUCUMBER-Chiccago Plckling LETTUGE-Select Blig Boston.
$1 / 1 \mathrm{lb} . \$ 11.00$ Oz. 8 cc. Pkt. 10 c . LETTUCE-Nonparell Cabbage-
$1 / 1 \mathrm{lb} .90 \mathrm{c}$., Oz. 30c., Pkt. 10 c .
CITRON-Red Secded for

ONION-Large Red Wethersfield
$1 / 4 \mathrm{lb} \$ 1.00$ Oz. 35 c ., Pkt. 10 c .
ONION-Yellow Globe Danvers
$1 / 3 \mathrm{lb} . \$ 1.25, \mathrm{Oz}, 40 \mathrm{c} ., \mathrm{Pkt}$.10 c . PARSNIP-Hollow Crownt 10 c . PARSLEY-Champion Moss
Curled Curied 1b. 75 c., Oz., 25 c . Pkt. 10 GARDEN PEAS-American Wonder
Lb. $45 \mathrm{c} ., 1 / 1 \mathrm{lb} .20 \mathrm{c}$., Pkt. 10 c. GAgem PEAS-Improved Stra
Lb. 50 c., 3 lb RADISH- French Breakfast.
$1 / 1 \mathrm{lb} .6 \mathrm{c}$., Oz. 20 c ., Pkt. 10 c . 1/1bll. 65c., Oz. 20c., Pkt. 10
RADISH-Long White Iclclo
$1 / 1 \mathrm{lb} .65 \mathrm{c}$. Radish-
tipded
Rosy
Gem, tipped
1/b. 1 b . 65 c ., Oz. 20c., Pkt. 10 c . TOMATO-Bonny Best $1 / 1 \mathrm{ll}$. TOMATO-Earliana
$1 / 4 \mathrm{lb} . \$ 1.75, \mathrm{Oz}, 60 \mathrm{c}$, Pkt TURNIP-Orange Jelly or Golde
Ball 1/I Ib. 7Bc., Oz. 25 c ., Pkt. 10 c .
SWEDE TURNIP-Rennie's Priz Purple Top
Lb $\$ 1.40,1 / 21 \mathrm{~b} .75 \mathrm{c} ., 1 / 6 \mathrm{lb} .40 \mathrm{c}$. HERBS-Sage
Oz. $\$ 1.10$, Pkt. 10 c .

FLOWER SEEDS
ASTER-Select Comet, Mised
Colors
Pkt. 10 c.

| BALSAM-Finest. Double Mixed |
| :--- |
| Pkt. | CARNATION-Cholce MIsed

Pkt. 10 c . MORNING GLORY-Climbing
Pkt. 10c. SWEET WILLLIAM-Finest Mixed MARIGGLD-
Pkt. 10 SWEET MIGNONETTE-Grandi-
flora
PI

> NASTURTIUM-Cllimbing Mixed 1/4 1b. 75 c ., Oz. 25 c ., PLt. 10 c .
 PANSY-Choice Mixed
Pkt. 10 c . $\xrightarrow{\text { Pkt. }}$ PETUNAA-Hybrids Mixed PKt. 10c.
SWEET PEAS-Finest Mixed
OT. :Oc., PkL. TEN WEEKS STOCKS-Chole Mixed.
Pkt.
Mc. Pkt. 10 c.
VERBENA-Finest Mixed
Pkt Pkt. 10c.
WILDFLOWER GARDEN
Pkt. 10c.
Should your dealer be unable to supply all the seeds you require, write us direct.

> Send for copy of Rennie's Tool Catalogue. It includes Poultry Supplies, Planet Junior Garden Tools, Sprayers, Fertilizers, etc.

тив
WLum RENNIE COMPAN
KING AND MARKET STS., TORONTO
also at montreal, winnipeg, vancouver

## Maltese Cross

 TiresWe don't like to call a tire "tough" but that is the only word which explains the fact that it takes so much mileage to wear out a Paragon Tread Tire. Toughness in tires is a virtue which is manifested to a marked degree in the Maltese Cross Brands.

## PARAGON TREAD

## and

The Paragon Tread, black with gray side-walls, has a neat, well-finished and substantial lock, which adds something desirable to the appearance of any car.
Gutta Percha \& Rubber, Limited Head Offices and Factory, TORONTO

```
Winnipeg, }\begin{array}{c}{\mathrm{ Regina,}}\\{\mathrm{ Lethbridge, (askatoon, (%)}}
```

Nowadays It's Rope Harness
IMES have changed ! Leather prices are beyond reach for rough,
tough, hard pulling on the formm or in the lumber woods.
throw eway good money

## gififith <br> Rope ${ }_{2}$ Trace Harness



How To Run A TRACTOR Nand Canadian Correspondence College,
Limited, Dept. E, Toronto, Canada.


Grifititi \& Soiz Waterloo Street

Questions and Answers.
 department free. should be clearly stated and plainly writien on one oside of the paper only ddress of the writer.
3 rdd
In
veterinary
questions, the symptoms

 veterinary or legal enquiries,
enclosed.
Veterinary

## Unthrifty Horse

 Horse became sick in December. He lost flesh and strength, and could not rise without assistance for about a month and then his appetite returned. I am reding him well but he does not gain in cosh, and ric. Ans.-This is due to faulty digestion. Have his teeth dressed. Mir equal parts, gingor and nux vomica, and give him aheaped
tablespoonful
3 hieaped tablespoonful 3 times daily.
Feed on good hay and rolled oats with a Feed on good hay and rolled oats with a
couple of carrots or a mangle or turnip couple of carrots or a mane give him regular exercise and as diagestion improves increase the quantity of grain or work

Periodic Lameness
Seven-year-old mare is subject to lame spells in her right fore leg.
Ans.-It is not possible to diagnose definitely without further particulars The symptoms, to some degree, indicate
coffin ioint lameness, called navicular coffin joint lameness, called navicular
disease, in the early stages of which the disease, in the early stages of which the
lameness is usually irregular. The treat ment consists in giving a long rest and blistering the coronet every month with a blister made of 2 drams each of biniodide oz. vaseline. Clip the hair off for inches high ali around the hoof. Tie so
that she cannot bite the part. Rub the blister well in. In 24 hours rub well again and in 24 hours longer apply sweet oil and
turn in a loose box stall, oil every day until the scale comes off' Then tie up and blister again, and after this blister once monthly so long as you can give rest or until the lameness ceases. If you cal
have her examined by a veterinarian it will be well to do so, as our diagnosis
ame Horse About the middle of January one of
my horses became lame in the stifle while unning out I called my veterinarian in and he said the muscles of the stifle
were stretched. He gave me a blister for it. He called again about 10 days leg is swelled up now and he is still lame. Ans.-As the patient is being treated it would be presumptous and unproimterfere in any way. The practitioner in attendance is in a much better position who has not seen the case. From the the patient is being properly treated Sprains are often very hard and tedious
to treat. Swelling is a normal result after the application of a blister. In have patience, and should not find fault with his veterinarian because a case does
not recover in a short time. Many cases of stifle lameness are uncurable.

## Miscellaneous.

Dispute Over Fence-Bull at Large, be let loose in pasture, providing the fences are good? A and C have farms adjoining. A has good fences and keeps
registered cattle. C has a grade bull running in his pasture. This bull broke cow. Is C liable for damages? 5 rods more than his share of A built fence, with the understane of the line
that $B$ was to keep up a water gap: However, stop the cattle. What steps can A take to get l to build a proper water gap? According to law a bull canhelieve that this applies to a a bull

RAMSAY's

## Automobile Enamels

If you haven't an auto use them on your carriage
A. RAMSAY \& SON GOMPANY

Makers of Paints and Varnish since 1842
Toronto MONTREAI
Vancouver

iiable to the extent of the difference in value of the progeny.
the difere 2. If B refuses to repair the fence A might call in the township fence viewers to decide the
the stream.

Feeding Hens, a Mash
I am feeding my hens a mash of ground of our local poultry raisers tell me that this mash has an injurious effect on the hatchability of the eggs, and should be discontinued for several weeks before eggs are wanted for setting. Is this A Con.
Ans.-It is generally tonsidered that eeding heavily on wet mash reduces the at the College have borne out this fact. Feeding a dry mash is not so injurious.
tord George Wellesley said at a "One result of this. war will be that the English workingman will be better paid, He'll be content no longer with his wages of the past
"The English workingman is showing in numberless ways his resolve to
have a better share of the good things is labor creates. I know a lady who, when a submarine crisis was at its worst, lectured in the east end of London on Cheap and Tasty Dishes for the Masses. ' 'My next dish,' the lady said in the course of her lecture, is boiled cods heads.
a boiled cod's head, dear friends, if, properly prepared, a-dish fit for the gods: You take four cods' heads of good size and quality, place them in a casserole with salt and pepper, an onion and-
"A gaunt chap had risen from a front was pointing his long fore inger 'Wait a bit ma'am!' he repeated. 'What I want to know is, who gets the
cod?'


Concrete construc tion is notonly ideal construction for the farm-it is also easy construction.

Almost anything you wish to build of con crete can be built yourself, in your spare time -if you take as your guide our wonderful book
"What the Farmer can do with Concrete."
The directions it gives are simple and easy
o follow.
The mat
CANADA CEMENT COMPANY LIMITED
Sales Offices at Montreal Toronto Wimmipert Calgary
$\qquad$
and gravel, which you have at hand, and "Canada!" Cement which is sold by dealers verywhere.
Begin now to replace your temporary build ings with Concrete buildings. The first step is ings with Concrete buildings. The first step is to secure our book-and that you may do by simply
writing for a copy-the book is free to any farmer. wearly cvery city, town cnd

CAMADACEMENT


## CAN'T PUNCTURE

 NOR BLOW OUT DAYTON AIRLESS TIRES in the past 6 years have been used by thousands of owners of lightand deassenger
and dery
and and dilivery cars civilized world,
and have concluand have conclu-
sively demonsively
strated: 1st-They can't puncture nor 2nd-They ride pneumatics. 3rd - They give much longer wear than the average pneu-
matic. 4th-They absolutely will not
injure the car. They have been endorsed by 50,000 or more satisfied users including Westinghouse and Exandich fommotion no. ind
 Nothing can happen but wear,
We have standardized on 30 $30 \times 31 /$ and the price is right $\leq 3$ and
We sell direct where we have no dealer.
 territory a very profitable business either by
itself or as a side line.
TME BATTOM RUBBER MFE. CO., DAYTRM, OHMB mall THIS COUPON TODAY, OBIC The Dayton Rubber Mrfe. Co.
Dept F.A. Dayton, Ohio Please send without obligation booklet
and information on Dayton Alrless Tires

as checked below: | as checked below: |
| :--- |
| $-\quad$ For |
| $-\quad$ For light pleasure cars. |
| $-\quad$ Prolight delivery cars. |
| $-\quad$ Proposition to dealers. | Name



## KITCHEN'S

 WORK SHIRTS
$\underbrace{\text { Reat for mear and }}$ easy torashin Onand off like a coat. Roomy and comfortable. Doubleand
triple stitching at wearing points ; strong seams; but-
tons can't come off. Ask your dealer for "Kitchen's," "Railroad Signal") brand. our

Made in Canada only by The Kitchen Overall and (1) Srantort, Ont. (2)


Eggs and Poultry Wanted



Questions and Answers.
Unthrifty Calf.
Calf ten months old has a poor ap-
petite, and will not driak petite, and will not drink a poor apThe chill must be taken off. It also
zrits its water. It octh, and the eyes discharge wer. It occasionally has diarrhoea.
Ans.-The calf has chronic indigestio Then mix equal parts of powdered gentian ginger, nux vomica and bicarbonate soda and give a teaspoonful 3 time
daily. Feed on food of first-class quality Take the chill off the water and add to t $1 / 4$ of its bulk of lime-water.
About 5 Inappetence.
ram appeared to go afo mis 7 -year-old steadily continued have any desire for food. He has los flesh until he is simply a skelton. He sometimes takes a mouthful of hay or grain and munches it with his front teeth and lets it drop out of his mouth. I have
examined his teeth and find them all right.
Ans.-It is possible that there may be organs of the mouth the teeth or other recognize. It might be well , you do no to have him examined by a veterinarian There may be partial paralysis of the muscles of cheeks and throat. But as
you say, he "has not any desire for food" we must decide that the fault is no may be affected with some chrone disease of the digestive organ, possibly
tuberculosis, for which nothing tuberculosis, for which nothing can be
done. All that we can suggest is the
administration administration of tonics. Mix equal
parts of powdered sulphate parts of powdered sulphate of copper
gentian, ginger, nux yomica and bi-
carbonate of carbonate of soda, and give him a heape
teaspoonful in $1 / 2$ pint new milk 3 time daily, Until he commences to eat some
it will be necessary to endeavor to sustain
him him by drenching him with boiled flax-
seed or oatmeal gruel poured into the mouth in too large quant is ties, or if he refuses to swallow readily
and considerable fluid be introduced and cause serious trouble, usually either suffocation, or mechanical bronchitis,
which usually causes death drenching be careful to see that he Skin Trouble.

1. Some of my cattle are bad with
mange. It commences on the head and around t e eyes, spreads to the neck and
appears in spots the size of a dimee al
over the body. These spots enlarge and 2. Will this disappear when they are 3. Is the milk fit for use?
2. Is there any danger of mentract
$\qquad$ Ans.-1. The symptoms indicate ring
worm. It is very contagious, hence thi
diseased should be isolated and care be taken to not carry the infection
to other cattle on hands, clothing, stable white helebore to anotions of 2 drams this you may use tincture of instead er the ointment is the most convenient
It is not probable that a thorounh

It is not probable that a thoroug
ery will result without careful treat


GEO. KコITH \& SONS

## 124 KING ST. E

 TORONTO
## Since 1866

The Farmer's Advocate and Home Magazine
HAS BEEN OUT IN FRONT, fighting the battles of the Canadian farmers to secure fair legislation, a fair price for farm products, ready markets for all the farmer produces, the most important of all an efficient organization of the farmers themselves, to enable them to secure their just rights, and so put the
farming industry on a sound

What does the Farmer's Advocate and Home Magazine do for YOU?
ng. It is timely information, and you on the work you are dolot of books or ask a lot of people to don't have to go through to know The Editors, are practical farmers, and they kou want that your difficulties are practical farmers, and they know iust give you just what you want to know about every branch of
""The Farmer's Ad vocate" has a farm of 235 acres of its own, cone of the editiors lives on and manages this farm. This tual ronditions.

## SUBSCRIBERS

Home Magazine is the work the Farmer's Advocate and the same benefits. nd we will his name with the sum of $\$ 1.50$ he will give you, of charge. $\$ 4.50$. free.

## The La Fayette Stock Farm Co. of Canada Limited



Imported and American-bred Percheron and Belgian Stallions and Mares for the purpose of improving the quality of the draft horse stock of this country. Breeders will find
this importation a valuable accaisition to the horse industry of the Dominion. It has been conceded that the get of Percheron and Belgian statlons are in great demand on acc count of their weight, finish, quality and early maturity. There never was a better time than at preed
ent to breed and raise good draft teldings and mares, and the lind to raise are horses weighing 1,600 Ibs. and over. If you ralse that kind you will always find a ready market for same at prices ranging
from $\$ 225$ to $\$ 300$ and up. As son as thins are settled in Europe there is no ouestion but what there

An important fact we wish to impress on the public is that each and every animal is sold with


These horses are on exhibition at the FAIR GROUNDS, LONDON, ONT., where the stables and office are located, and we will be pleased to show them to you whether you purchase or not. address all correspondence to
G. R. Crouch, Viso-Prosidont La Fayoto Stock Farm London, Ontario

Ge Company is composed of J. Crouch, President; G. R. Crouch, Vice-President and Treasure

## SEEDS

We can supply for immediate ship-
ment Home Grown Alfalfa, Red
Red ment Home Grown Aifara, Seed
Cliover, Alsik. Timothy
Clover, Ontaria Grown Seed Corn,
 O.A.A. No. 21 Barle. . Peas, Buck
wheat, etc. Also Martel, Turnip
 FEEDS We handle Linseed Oil Cake Meal,
Cotton Seed Meal, Feeding Mo-



CRAMPSEY\&KELLEY poveaceuit mond. - toronto

## SEEDS

We pay the freight on all orders of
$\$ 25.50$ or over east of Manitoba. GOVERNMENT STANDARD
No. 1 Red Clover.
No. 2 Red
No
Clover...
 No. 3 Timothy No. 1 Alfalfa Ontario (hrown).at 17.00





TODD \& COOK
Stouffville Seed Morchante Ontario

## Nursery Stock at

Wholesale Prices
First class and true to name.
for Catalogue. No Agents.
The Imperial Nurserie
RIDGEVILLE - ONTARIO
Registered Seed Barley
 test, $100 \%$. Yield last year, 48 bus. per acre.

## Clydesdale Stallion

FOR SALE

R.R. No. 1 GEO. B. ARMSTRONG ${ }_{\text {TEESWATER, ONT }}$

Care and Repair of Farm Machinery A big leak, usually unrealized, occurs
through the meagre attention given farm implements. The care of farm machinery is not usually receive the attention itsimportance warrants. In the rush to get the crop into the ground at the proper time and in factory returns or or condition for satisfactory returns or to gather in the harvest
promptly, the care due the implements which have made each operation possible is lacking or performed in a more or less
haphazard manner. As a part of the toil-earned revenue of the farm machinery or in expensive repairs which might have been avoided had proper preThroughout the ExperimentalFarmssystem, attention is given, so far as circumagement. All implements are cleaned and placed under cover when not in use all polished surfaces receiving an appli-
cation of an anti-rust cation of an anti-rust peparation.-
Axle grease or other lubricant will an-
swer swer of structure are suitable and an expenditure nit exceeditable building
usually provide $a$ suita Besides it is not always necessary to go to this expense since any weather-proof
building already available will It is advisable to go over each machine after the day's operations, making proper
adjustments tightening loose bolts, making sure that the lubricating devices are working properly, that the bearings
are not too tight or too loose and that are not too tight or too loose and that
cutting parts are sharp. An assortment outting parts are siarp. An assortment rivets, springs, etc. for each machine is provided and allotted a
definite location in the tool room. This saves many trips and probably valuable time and the plan, systematically carried
out results in the prevention of many breakages. Besides it has been proven
that an implement in repair at all times has a longer life and gives more satisfactory service than one that receives
erratic attention. To carry out this work systemati-
ally a properly fitted work shop is neces cally a properly fted a comfortable place
sary. It provides a com
to work in during bad weather and in which those who so desire may develop
their mechanical skill. It should be equipped with the necessary tools, inluding anvil, forge, work bench, vise
ongs, hammers, hardies, punches, drills square, chisels, saws, wrenches, etc.-
Experimental Farms Note. His Day of Work.-"Tommy Atkins" pleaded exemption from church parade sergeant-major assumed an expression of "Don't you believe in the Ten Com-
mandments?" he mildly asked the bold mandments. sir, was the rule about keepin "Sabt! Not the rule about keeping

## Swat theScrubDairy Bull



Mr. Dairyman :
Do you realize that a good bull is more than half the herd, but a scrub is mighty near all of it? Then swat him.

Be wise, and put an Ayrshire Bull at the head of your herd this Spring. Get one from a proven family.

No class of cow is in greater demand to-day than a Grade Ayrshire. Why?
Because in the manufacture of milk they possess the three great essentials required in a high class machiine :-

Economy, Efficiency and Durability
It means dollars and cents to you
For information about the breed, write to

## Canadian Ayrshire Breeders' Association

W. F. Stophen, Sec-Treas. HUNTINGDON, QUE.

## SHIP US YOUR CREAM

T/ F Supply Cans and Pay All Express Charges, Within a radius of 100 miles of Kitchen Phy Every Fwe weeks.
WRITE FOR FULL PARTICULARS
ROSEDALE CREAMERY CO.
Kitchener
Canada

[^1]
## NOBEY TREAD The King of the Road A Dominion Tire <br>  <br> DOMINION TIRES <br> are GOOD tires <br> DOMIMION TIRES and ACCESSORIES are SYSTEM ERANCHES and sold by the Best Dealers throughout Canada. sold by the Best <br> 

## HEAVES CURED



CAPITAL HEAVES REMEDY
 OND FORR FREE TRIAL

PROUD CLARET
W. D. Forster Copetown, On
等
w

Herefords

[^2]Sunnyside Herefords

Mrs. M. H. O'Neil \& Sons Denfield, P.O. - R.R. No. 4,

## Cairnbrogie Clydesdales

STILL to the fore
Imported and home-bred stallions and mares of the highest quality and individuality. Our record at the leading shows of America
surpass all competitors, and we are offering for sale males and females of all ages, and should be pleased to hear from prospective buyers of quality Clydesdales at any time.

For prices and full particulars, write:
GRAHAM BROS.,(Cairnbrogie,)Claremont, Ont.

## Imported Clydesdale Stallion FOR SALE <br>  J. M. Gardhouse Phone 121 Weston, Ontario

I HAVE FOUR RED BULLS
.T. GIBSON
Denfield, Ontario
Pleasant Valley Farm
Aberdeen-Angus Cattle

## The School and the Community

community. organization through which people are more and more turning the eyes toward the school houses which
have for have for generations been monuments
of neglected opportunity It is true that many of our schools have not been built with the idea of citizens of the comminuty With little remodelling, however, they shoul be used to house the community forum and what better place could be secure in which to work out the ideal of the nev democracy: delic school is the most democratic of all community organiza:
tions. Here meet the children of rich and the poor; side by side in the school sit the children of all ecclesiastical denominations-divided on Sunday it 1 true, but reunited on Monday-here mingle the children of the farmer and doctor's son.
What a levelling institution it is fo it as the democratic meeting place for the citizens generally? We have gone so ar as to use the school house as the polling place on election day, why not
use it as the place where citizens gather to discuss the issues upon which gather ater will vote? It does seem foolish public issues, and at centre to vote on rrive at conclusions as to how to vote judiced press. judiced press. specially of Wisconsin, may be of States, lar interest to trustees of Canadian schools. Figures show that for 1915 sed as community centres; 242 had provided seating accommodation for adults, 479 had established community zation; and in 152 places the schoot principal was secretary of the community
Let trustees of schools already built plan to remodel these schools to meet the new demands; let the citizens in being built have in view the use of the school as a meeting place for adult eitire discusally let all communities who re discussing consolidation, plan to orme a place which shall be a real done, notably at Foxwarren, Manitoba where a magnificent building has been rected at a cost of some $\$ 50,000$. The ommunity club at this place uses or all public gatherings, while the whole school p
purposes

There once was a tool-house, a great Twas shut every night in the year; that this was a folly too dear.
id they: "If 'tis ours, then we have
se it whenever we will. with music deligh
$\qquad$
However, before the school can fill munity generally, a further step is necessary. There must be, it is true, a wider
use of the school plant; but with that must come a wider use of the school must get the commmunity vision and apply themselves more closely to comof the individual but the betterment of society is the ideal of the new democracy. This ideal must be actualized in the life of the local community first, if it is evore. and before it can be fully actualized in by the teen-age boys and girls in our grasp that ideal will depend in a great measure on whether our school teaching and in their lives. But they must do more than must take their place amongst the local leaders who are seeking to actualiz



Alloway Lodge Stock Farm Angus-Southdowns-Collies
 Robt. McEwen, R. R. 4, London, Ont.
Springfield Farm Angus
 safely bred to same sire. C. QUARRIE $\underset{\substack{\text { Bollwoo } \\ \text { R.R.N. }}}{ }$

| SUNNY ACRES <br> ABERDEEN-ANGUS <br> The present string of young bulls for sale includes some classy herd bull prospects, winners themAngus, write your wants. Visitors welcome. G. C. CHANNON P. O. and 'Phone Rai!way connections, Lindsay, C.P.R. and G.T.R. <br> Kennelworth Farm Angus Buils The strongest offering we ever had, all are sired by Victor of Glencairn and a number are ready for service. Prices reasonable. Hillsburg, Ont: <br> Goodison Stock Farms Registered Hereford Bulls for Sale We have any herd. alsor-old Rex Ingleside Bnll fit to head both perfect!y marked and in condition. Pedigree <br> W. T. GOODISON |
| :---: |
|  |  |
|  |  |
|  |  |

## Cultivate triple acreage with Planet Jr. tools



## Aberdeen-Angus Cattle <br> THE PREMIER BEEF BREED <br> OF THE WORLD

Use Aberdeen-Angus Bulls on Your Grade Herd if You Want :
1.-Market-topping Steers. 6.-Hornless Calves.
2.-Hardy, Robust Cattle, 7.-Calves uniform in type and Heavy Weighers. and color.
3.-Heavy, Winter-haired 8.-Transform your mixed Cattle that rustle in herd of all sortsinto one
the cold.
4.-Early Development. uniform, black, highclassed lot that will all 5.-Easy and quick feeders. look like pure-breds.

Buy an Aberdeen-Angus Bull now and make real progress in Beef-Cattle production and improvement. Start a Pure-bred Herd of Aberdeen-Angus Cattle, as there is a shortage of this breed in Canada.

## Canadian Aberdeen - Angus Association Brandon, Manitoba

36 Points for Aberdeen-Angus Sweepstakes
 points onoria; from Honolulu, Hawaii, to Syracuse, New, York, beef
ville. Floraking
superiority has been shown by this breed under the acid test of war. Write for
list of breeders and free literature.

American Aberdeen-Angus Breeders' Association II you want a good breeding and show bull for the three-year-old class. I am offiring the sire of the
majority of our seven calves which we exhibited at 1918 shows. Or if you want majority of our seven calves which we exhibited at 1918 shows. Or if you want one for the two-year
old class, can all the junior champion at Toront also 1 st trize at Winter Fair, 1917. We also have
useful bulls and females in good breeding condition for sale. useful bulls and fen
Jas. Bowman

Elm Park, Guelph, Ontario
LARKIN FARMS Queenston, Ontario aberdeen angus and Jersey cattle
SHROPSHIRE and SOUTHDOWN SHEEP
Correspondence and Inspection Invited
KNIGHTON LODGE STOCK FARM
Offers for sale two pure-bred Aberdeen-Angus cows, with calves at side, Middlebrook Beauty and
Victoria of Larkin 2 nd. L. E. \& N. cars stop within a few minutes' walk of farm.


FOR SALE
Canadian Root Seed Raised from the best stork by Doed inion Exper Prices as fultows


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

## ANTICIPATION

REALIZATION
Good Shorthorn Bull


History of the Horse in Lines.
FIRST evidences of the horse are found In fossils of a period long before the dawn of history, and beyond the reach of the
present system of chronology, hence the present system of chromology, hence the
first few paragraphs of this article, in respect to time, anh of necessity be vague. In the main the approximate dates
of the various stages of evolution in the forse are given. From fossil remains the fact is fairly well established that the carly man hunted and
captured the horse for food, and that there captured the horse for food, and that there
were two calieties- one as large as the middle-sized horse of to-day, the other abet the size of a large donkey. The largest specimens were not over 14 hands,
and the average height was $13 \mathrm{~h} .21 / 2$ in, We will not dig deeply into the earlier horse of some two million years previous,
which had five toes, and was about the which had five toes, and was about the
size of a fox, but will start with the horse as known to the first men, at which time he was, perhaps, the chief item of their
food. In those days the horse's head Late in the Bronze Age, or in the Early
lron Age, the horse was clomesticated perhaps first, by the Swiss Lake
dwellers. Later the Turko-Tartaric tribes domesticated the horse for its milk, not
having cows and goats, like other early There is abundant proof that the arly horses were captured by the lasso and belaboured with sticks and cudgels, Soon after being domesticated bridles
were used. The first bridles were of were used. The first bridles were of
rush, and were practically the same as our halters of to-day, with reins attached.
The horse reached its greatest domesticity The horse reached
n the carly days among the Libyans
of Northern, Africa. They rarely if ever
No used hits. The Europeans did use bit ater of copper, bronze and iron. will be
From now on each paragraph
precected by the date of the occurrences
$\qquad$
$\qquad$
1712 B. C.-Joseph exchanged corn for
hourses during the famine in Egypt.
That Mosis I. is said to have captured
horsend on the Euphrates.
lineme the country
iनn) B. C.-Libvan women rode horses
17010 B. C.-Libyan women rode horses
istride, sitting on horse cloths. Pairs
were driven and four-horse chariots
monetimes seen. The Libyan horse was
Widently higher in stature than other
horses too small to ride, and drove them until a good many centuries later. About
this time, Aram, the Armenian King,
hard a war with the Medes and Cap-
mat a war with the Medes and Cap-
patocians. All the combatants had large
arecs of cavlry.
$1.500 \mathrm{~B} . \mathrm{C} .-$ In the reign of Ahhmes I.
haniots were used in Egypt, but do not appear to have been used to conceive that
although it is difficult to
the Egyptians had kept horses for 150 wars without putting them to some use For a long period the chariots were
only for display and in time of war.
15000 B. C.-Horses were employed in he great city of Babylonia.
1450 B.C.-The Phenicians had chariots heen suldued by Joshua.
1400 B . - The Hittites had horses in orthern Palestime, and the Greeks Te using them in chariots.
13. B. C.-King Erichthonious became the richest man on earth and owned , 1 ,
mares.
me was, according to Vigil
the first to drive four-horse team, but ne first to drive a four-horse team, the
irgil probably knew nothing of
itences that the Lilyans had done this nturies before.
128.5 B. C. - Sisera used chariots when efeated by the Israelites.
1000 B. C.-The Trojans had white
own to the
vellow-dun
yellow-dun
yiling color,
and
of Cappled
he Libyans
white star
white star
ina travelled

## of the Horse in

 Lines.forthong lefore the daund of chond the reach of the aphe ony, hence the vill of $u$ ensity be vague
oximate vague.
fact is fairly well
man hunted and
, and that there
as large as the
a-tay, the other
not over 14 hands,
wly into the earlier
illion years previous,
and was about the
and was about the
arn with the horse
hief item of their
the horse's head
ge, or in the Early
Swiss Leke
Lake
-Tartaric tribes
for its milk, not
, like other early
ured by the lasso cudgls
sublue
omesticated bridles
tically the same as
with reins attached.
greatest domesticity
mong the Libyyns
They rarely if ever
of horn and bon
paragraph will be
of the occurrences
untry bordering the
as were abundantly
were abundantly
it there were none
xchanged corn for
mine in Esypt.
mine in Egypt.
o have captured
into the country
omen rode horses
se
se cloths.
Pairs
r-horse chariots
iblyan horse was
cople found their
and drove them
Medes and Cap-
gn of Ahhmes I.
gypt, but do not
to conceive that
hen! to some use.
ine of war.
ians had chariots?
had horses in
Greeks
ats.
ording to Virgil,
nothing of the
chariots when
had white
nown to the
yellow-dun
iling color,
of dappled
of dappled
white star
a travelled
ses.
few people

April 17, 1919
Were riding horses and such as did, rode
them bareback, but abbut this time the Assyrians commenced to use cloths and 648 в. c.-A race for riding horses was instituted in the 33 rd Oympiad. Ch
races had been in vogue before that. 600 B. C.-The Greeks and Scythians ormer using cloths. The Sybaris of of
or Southern Italy were using cavary, the
inhabitants of Northern Italy were riding. 520 в. с.- Darias the Mede established ${ }_{\text {system }}^{220 \text { B. . . - Cquina couriers. }}$
480 B C. - The Nisseans were raising
a mous breed of white horses in Asian $437 \mathrm{B}$. c.-The Part henon friezes made, 425 B. C.-Alcibiades entered seven hariots in one race. Shenicians used chariots with scyy thes attached to the wheels. Common
spurs came into use about this time. 400 B. C.-.For a considerable period
Venetians had been raising a breed of horses, many of them white, noted for
fheir speed. The breed finally died out 300 B. c. - The Celts of Noricum had organized cavalry.
170 в. с. - Roman horses exported into 150 B . c.- Popularity of the chariot
ommencing to wane. The Transalpine auls had taken to horseback. Borseback. C.-The Belgic tribes take to A. A. D.-The British commence ta people to do so. Horse-shoes may have
come into occasional use about this time. Venice, were doubtless cast about this Severus Alexander organized racing in 356 A. D.- -Emperor Constantinus sent
to Aratia two hundred "well bred cappadocian horses," which was the
ntroduction of horses into that country 380 A. D.-Saddles, similar to ours o
oday, bad conte into wide use by to $500 \mathrm{~A} . \mathrm{D} .-$ Regular shoeing of horses had come into vogue.
600 A . D. Stirrups were just coming 1066 A. D.-William the Conqueror Mported Spanish horses into England.
$1900 \mathrm{~A} . \mathrm{D} .-$ FitzStephen writes about 1200 a acers as saddle horses in England. Stalions from Flanders intorted Englavy
This was the time of the ato lighter breed of horses in England, and just outside of London. panish horses into England.
into America by Columbus. All perished ravelling, expresses surprise occlesiastic pacers in, England, a gait that had by 1511 A. D. Spaniards settled in San making that a centre for colonization efforts in North and South America
and Mexico, 1519 A. 1,- First importation of eleven Cortez. Shortly afterwards Alvardo
brought in twenty horses and Naevaez 1525 A. D.-Allyon landed in Florida 1528 A. D. - Narvaez landed in Florida 1539 , 1 , but had to kill them for food, the Mississippi Valley by De Soto leaving four or five horses behind, which feral have been the progenitors of the 1590 A. I. - A traveller in the xpresses surprise America from England
$\qquad$
$\qquad$ into Virginia, but these were devoured
during the famine of the following
$\qquad$

THE FARMER'S ADVOCATE


## Harnelbel Shorthorns

## 

 FOR SALEin calf to Gainford Supreme.
We have also for sale some choice young bulls.
Farm one mile from Islington St
Samuel Truesdale, Manager, Islington, Ont.
Harry McGee, Proprietor, 61 Forest Hill Rd., Toronto, Ont.

## Imported Shorthorns

Imp. Collynie Ringleader Imp. Clipper Prince Imp. Orange Lord
We are offering a large selection in imported females with

ge. If interested, write us, or come and see the herd.
J. A. \& H. M. PETTIT

Freeman, Ontario

Spring Valley Shorthorns

[^3]Bright Prospects It looks as though the demand
for beef will be strong for some years to come, and the mann who is in line for greatest proits is
the Shorthorn Breder We haven't room to give our
reasons here, but write the Secretary
which for our free p pablications, DOMINION SHORTHORN BREEDERS' ASSOGIATION
 ShorthormS

FOR SALE





Wet Horses

into New York and English horses into Leicestershire) Foston (these were from may have descended the English horiee pacer.
1635.-Importation of three stallions and twenty-seven mares from Holland
into Salem Mass into Salem, Mass.
ware River bring some of the Delaware River bring some of their Detive horses, probably pacers. The Swedish
pacer is thought by some to have been pacer is thought by some to have been
the progenitors of the early paceers of the progen
England.
1640. - New England begins exporting
horses to the Barbadoes. horses to the Barbadoes.
1643 .
imported into New York from of Dutch West Indies.
1647.-Dutch horses from New York exported into Virginia.
at this time 169 were 200 horses in Virginia 1649-1660
of Place's White Turtation into England Hemsley Turk.
wart-Siege of Azof, when horses were liberated which are supposed to be the progenitors of the native horses of
Northern Asia and Northe Northern Asia and Northern China.
1660 - Average height of the native English stock 13 hands.
1660-1685.-Importation into England of Damascus Arabia, three Turks from Hamburg, and the Royal Barb or Turkish
mares. 1665 . Importation into Canada of horses from Picardy, France
106.- Mirginia began to export horses

1685-88.-Importation into England
of the Byerly Turk and Stradding Turk 1690.-Horses were the leading item of export in Rhode Island
1670 -Stage
to come in use in England. Four-whed to come in use in England. Four-wheled
arriages had been used before 1700.- The pacer had practically di appeared in England.
1702-14.- Importation into England of the Darley Arabian (1711), Curwen' Barb and Carliste Bart
Virginia - There were 2,363 horses in the records of English racing began about this period.
1727-53.-Importation into England of he Godolphin Arabian (died 1753)
1730 .-First English
1730.-First English running horse

$$
1750 \text { The }
$$

1750.-The average
tock of Virginia was size of the native Racing in New Jersey was becoming a nuisance.
1768.-The average height of the Narragansett and Massachusetts horse Carolina $13 \quad \mathrm{~h} \quad 2$ in in Count 13 h .3 in., in Pennsylvania 13 h . $11 / 4 \mathrm{in}$. In Virginia there were twice as many pacers as trotters. In the other colonies the horses were almost all pacers.
1770.- Count Orloff began breding rotters in Russia. 18e 14. h . The horses of New York aver double-gaited, one-quarter trotters, onequarter pacers.
1784 . - Barrs, the father of the Orloff trotter was foaled.
1788.-Messenger imported to America from England at the age of eight.
1806.-Mambrino foaled; Yankee trotted mile in 2.59 .
1810.- Boston Horse trotted mile in 4812.- From the Live Stock Journal London, England.

## Gossip.

Hood Farm, Lowell, Mass, have recently issued the folder giving the pedigrees and description of some of the
Berkshires in the breeding herd. Among Berkshires in the breeding herd. Among
them is Longfellow's Double, a strongthem is Longfellow's Double, a strong-
topped, deep, thick-bodied pig which stands well up on his feet and weighed 507 lbs. when one year old. This sire has been successful in winning championships at the largest fairs across the line-
Baron's Successos sired by Lord PremBaron's Successor, sired by Lord grod
ier's Successor, is another of the good ier's Successor, is another of the only
sires in service at Hood Farm. Not is he a show animal but his progeny have been successful in the keenest competition national Sale for an average of $\$ 380$. The progeny of Longfellow's Doubl secured one hundred and eight 1817-18. The folder issued by this Farm gives illustrations of some of the stock in the breeding

Founded 1860
and Eng lish horses into
oston (these were oston these were from
From the English horse From the English horses
cended the Narraganset! tation of three stallions settlers on the Delay pacers. The Swedive $t$ by some to have been
of the early pacers of

England begins exporting rbadoes.
ew York from the Dutch
horses from New York irginia. aportation into England of Azof, when horses of the native tosed to be ad Northern Chinges of e height of the hands. nportation into England
abia, three Turks e Royal Barb or Turkish ation into Canada of ray, France.
rses ran wild ortation into England
rk and Stradding Turk were the leading item de Island.
coaches commenced to
England. Four-wheeled England. Fou
n used before. cer
ation in abian (1711), Curwen's Barb. orse artillery. Earivest rtation into England of nglish runnis). ginia rage size of the native was then 13 h .2 in erage height of the
Massachusetts in Virginia and South in., in Connecticut
nsylvania $13 \mathrm{h}. \mathrm{11/4}$ in.
wete twice as many were twice as many
In the other colonies host all pacers. of New York aver-
out one-half were -quarter trotters, oner imported to America re age of eight.
o foaled; Yankee trot rse trotted mile in
Live Stock Journal,

ApRIL 17, 1919
Making Concrete Posts on the Farm
Concrete fence posts are one of the concrete products that can be successfully
made on the farm. Some of the farmer's spare time during the winter months can be put to good advantage in this work.
There is nothing which detracts more from the appearance of a farm than a poor fence, and there is nothing which and life of a fence than good durable posts.
To make concrete posts during the winter months precaution must be taken to see that the materials do not freeze before setting. A place of this work where y farm.
There are certain requirements posts that every user of concrete should have well in mind:
Use new cement that is free from lumps. Use clean, coarse sand.
Use gravel or broken stone that is welt graded; free from soft material such as clay, organic matter, et
Use enough cement. A rich mixture of 1 part cement, $11 / 2$ of sand, and 3 of
broken stone not larger than $8 / 4$ inch, is broken stone net
Mix cement and sand thoroughly Add broken stone and water and continue mixing. Concrete mixed for than when mixed for one minute only. Proper amount and proper placing of iron rods are necessary. Place these near each corner of the posts. Have well-made forms. There are many good patented forms on the market, but home-made forms have given just as
Clean and oil form with a heavy oil before pou our hours. In damp weather twenty period is necessary. Keep posts moist the first week while
curing. Allow them to season one month cefore using.
Handle concrete posts with care. They wooden be thrown from a wagon like Mison pouri College of Agriculture.

One Barberry is Harmless Don't Destroy It.
When you've sharpened up your
shovel, and you've ground your rusty Shovel, and you've ground your rusty
axe, and thrown aside your coat and hat and started making tracks to reckon with where,-you're on an urgent business but go slowly and with care-do not on harmless bushes let your hand of vengeance fall, for there's a small barberry that never rusts at all. It's the
Japanese variety and differs from the
pests to Japanese variety and differs from the
pests to which it is related by these quite conclusive tests: Its leaves are small and spoon-shaped, always green, and free from spines, that adorn the cut eaf edges of the bush where stem rust
dines. Barbed and thorny are both bushes, but they differ in degree, - to every spine the good bush has, the othe one has three. No matter what the
season, be it winter, spring or fall-the triple spines on bushes condemn them one and all. Then in spring when Mothe
Nature dons her rebe and flowers start robe of verdure green growing thing,-if you scan the yellow you'lls find the bushes in your yards bush with triple barbs; while the Japanese barberry for whose safety we're coneerned as if trying to be different from
the bush that should its flowers, like its be burned-bears and alone. Later on to fill the places the flowers that are gone are some
beautiful red berries, and I've heard the women tell of gathering them in autumn
and of using them for and of using them for jell. The arrangewhich they grew affords the flowers fron distinguishing the two. If by now hod looked them over and decided they're the pest, pick up your axe and shovel
and don't stop for any rest sent the last tarberry on its final journey College. - L. Sargent, Colorado Agr

# White Tractors and Threshers "THE FIRST QUALITY LINE" 



Above every other consideration in choosing threshing machinery comes RELIABILITY The season is short. The equip ment represents a big invest ment: The labor cost is high. I anything goes wrong, you lose not only the cost of repairs, but the wages of the gang while they are idle, and the valuable time in which a profit can be made.

For that very reason White Tractors and Threshers have always been built with great overstrength in every vital part. The unusual strain is provided for, Parts that receive the most wear are made extra durable and strong: The whole effort of this big organization is directed entirely on making the best threshing machinery that can be produced.

Should any accident occur in a White machine, we provide very prompt repair service. This is a day and night service Orders received during the night are shipped on the early morning trains When a man deals with us we intend to give him the best he can possibly buy and the best service after he has bought.

Correspondence is invited with farmers or threshermen who require gas or steam tractors, or threshing machines. We have lived with this business and grown up with it. If there is any information you need we can, and will, give it freely.


White Steam Tractors 17 H.P., 20 H.P., 25 H.P.of proven merit.


Whi.e Challenge Thresher No. 1 Specially designed for

The Geo. White and Sons Co., Limited,

London, Ontario

Brandon, Man.

Robert Miller, Stouffville, Ontario
Fas EIGHT of the beast young bulis that be had owned a one time, good agea and beautilully brea Aloo geveral Coww and heififers, some of them with calven at foot. otherg in calf to Rooemary Sulve
he Grand Champion buil at head of the herd. Everr thing of Scotch breeding. The prieas are ver

Pure Scotch and Scotch-Topped Shorthorns We have everare choice young bulls o ot the best of breeding and ready for service. Two are by Rephen)
(imp.). one by Right Sort (imp.) one by Sittyton Selection, and several by our present herd tire Newlon Cedric (imp.). Prices right. R. R. No. FREEMAN, ontario
R. M. MITCHELL)
 alives now coming are all by this sire. We ale ofering a few femalee in calf to him Cot PRITCHARD BROS., R.R. No. 1, Elora,Ont.
Choice Shorthorn Females


## Hish1and Lake Hains

For Sale: Two extra good (30-lb.) thirty-pound bulls ready for heavy service. Priced
R. W. E. BURNABY

Farm at Stop $55{ }^{-}$Yonge

JEFFERSON, ONT.

English Dual-Purpose Shorthorns For sale: Bull calves and young bulls.
English bred for milk and bee. The right
kind to head Canadian herds to increat kind to head Canadian herds to increase profits. From very moderate prices and preat bacon type, long and deep, thrifty, Come or write.

LYNNORE STOCK FARM F. Wallace Cockshutt

Ontarlo
Mardella Shorthorns
Herd headed by The Duke, the ereat, masaive 1
year-old sire, whose dam has 18,509 ibs. of milil
and 744 lib. of butter-at in the R. O. . test.
have at present two exceptionally good,
 as females all ages, Some are full of Scocch breed-
lig, and all repriced to sell. Write or call,
THOS. GRAHAM - PORT PERRY, ONT.


Madame, This Washer
is simplicity itself" So convenient and simple in construction, a large roomy tub without any obstruction
inside the tub. The rub-board is inside the tub. The rub-board is hinged to
the slusher and when open the water and the slusher and when open the water and
suds drain back again into the tub No suds drain back again into the tub.
more sloppy kitchens, when you use a CONNOR WASHING MAGHINE Give us the opportunity to tell You more
about this Washing Machine. We will.
mail you handsome booklet on request. J. H. Connor \& Son, Ltd. ottawa

「 COP DRESS all Crops with Nitrate of Soda, no matter what other fertilizers you may have used-100 pounds peracre for seeded crops and 200 pounds per acre for the cultivated ones. The increase will yield large profits over cost.

Write on post card for our
money making books
WILLIAM S. MYERS
25 Madison Avenue, New York


## $C_{\text {ream Wanted }}$

Ship your cream to us. We
pay all express charges. We supply cans. We remit
daily. We guarantee highest market price.
Ontario Creameries LONDON Limited ontario

Feeding and Caring for a Flock of Pure-bred Sheep. fro the greatest profit is to be realized from a flock of pure-bred sheep the must receive the very best feed and car
the shepherd can give them. Not that they of necessity require greater care
and feed than the grade, but the fact and feed than the grade, but the fact
that the breeder of a pure-bred flock expects to put the most of his surplus
stock on the market as breeders means that he must feed the best and give the best care possible, that his stock may reach its best development.
At the Experimental Fa At the Experimental Farm, Nappan this has been well brought out in flye
feeding and caring of the pure-bred flock It was found that even during the summe season the pure-bred flock could not be
neglected, otherwise the results would be found to show in the following seasons The flock must have a good pasture with not too rank a growth; preferably
a short thick botto a short, thick bottom growth with a
abundance of clover and plenty of abundance of clover and plenty of good
running water to which the sheep cat easily get. Sheep take much more water
than the averge farmer would think than the average farmer would think This holds true especially in winter.
Just
before the ewes should be culled; all undesirables taken out; and a certain period given be-
tween weaning and breeding time for the ${ }^{\text {tween weaning and breeding time for the }}$ ewes ewes to get into condition again. Best
results are obtained where the ewes are turned in a nice clover field and flushed that where ewes and rams are in the bes of health and condition a greater percent-
age of twins and triplets is dropped. mating season. The lagged to to breed is in the fall. If you have warm quarters
for the ewes and lambs it will pay to have Tor the ewes and lambs it will pay to have
the lambs dropped early; otherwise it is not advisable to do so. It is also
foun twenty-five per pen is better than a
large one. When ewes auarters they should be supplied with
quat goca, wel-curce clover hay. The enex
best is mixture of clover and timothy
Put ped turnips at the rate of from 2i to 3 pounds per head per day should be
given up to within a month of lambing with the addition of $1 / 2$ to 1 pound of a
meal mixture 100 ats oil cake. This will keep the ewes in a
good, thriving condition. For the best results, ewes should not be too fat,
especially at lambing time. We have eues. Just previous to lambing (say
about a month) the turnips are gradually of brawn if it is nothing. The percentage is increased slighty
of until alter the lambs are dropped. Th
the oats are increased, as there is nothin like good oats to stimulate the milh
flow. Salt should be supplied at al al flow. Salt should be supplied at all
seasons of the year. A careful watch save the lives of many lambs that will,
at the end of six or seven months, b worth 825 to 830 each.-Experimental
Farms Note.

Charles Graham, of Port Perry, writes Advocate" he has disposed of a straight fleshy, roan bull of the Henrietta family,
to George Harrison, of Lakefield. JJ.
$\qquad$
$\qquad$
$\qquad$ Walker, of Manitoba, purchased a mivi family. This Lavinia family has Downs was very successful in the show
circuit last year, not only in Eastern Canada but throughout the Western
Provinces as well. For instance, at Brandon they won five firsts, champion and
pion for ewe at Edmonton and Cal-
gary they were very successful with rams and ewes of different ages, and also
with their aged and lamb flocke with their aged and lamb flocks. The
individuals which they have are typey indriviuarsed and show breed character,
strong-framed,

## Proved by Hundreds of Tests

T is impossible for the Dairy Farmers to blend and balance their stock feeds as they should be to get maximum results.

## CALDWELLS CALF MEAL

is mixed and blended only after hundreds of tests have been made, that is why we are confident as to results. Further, it enjoys the recommendation of leading stock men

You can therefore sell your whole milk very profitably, and feed your calves Caldwell's Calf Meal. It is a complete substitute for whole milk

Your dealer most likely carries this meal, if not we will give you the address of the nearest dealer who does, or ship direct.-Write us

The Caldwell Feed \& Cereal Co., Limited Dundas Ontario.

We operate the largest exclusive feed mills in Canada-and are makers of all kinds of
high-grade stock and poultry feeds. We can send you prices and information on any rations you require.

## HOSPITAL FOR INSANE

HAMILTON
ONTARIO
sire is one of the best sons of King Segis. Alcartra Spofford. We
his sons born during May and
Lakeview Lestrange. Apply last and ast also a grandson of
Premier Echo Sylvia DeKol No. 38053
814.8 Ibs. of milk, with 33.96 lbs, of butter in 7 days, 120.8 Ibs. in one day
is the average for the dam, sire's dam and sires sister of this doung bull that I a mofering for im-
mediate sale. He was born Nov. 17 , 1918 and is a very fine individual. More black than white. Write at once for extending pedigree and price.
H. H. BAILEY, Manager, OAK PARK STOCK FARM

At Service-_Son of Ormsby Jane King

How would a 16 month son YOU! MR HOLSTEIN BREEDER

 Holstein Bulls and Females - Only four bulls left-of serviceable age. Ally

Silver Stream Holstein - Special offering: One bull fit for service, a fine ind
 JACOB mock \& Son, r.r. 1, tavistock, ontario
6 BULLS BY ESCANNA FAVORITE

##  W. Grite Gont diflay

A.R. station on tarm. Bell Phone BELLWOOD, ONTARIO

Ouest
profitably, and
t is a complete
, if not we will ho does, or ship
o., Limited

## ANE

RIO


No. 38053



lane King


anville, Ontario
 And

Ingeroll, onararo


it for sevvec, a fane indid.
 tavistock. ontario
 bellwood, ontario

April 1: 1910
Questions and Answers Miscellaneous.

## Raw Furs.

Will it hurt raw furs to keep them over summer? Do skunk hides become un salabie,-More or less difficulty will be experienced in holding the raw hides over the warm weather. It is advisable Unless sell them when they are rreshis
taken care of, hides off any animal wil become unsalable in time

Improving Quality of Milk
Can the quality of imilk or butter-fa
improved by increasing the feed? be improved by increasing the feed?
Ans.-It is the common opinion among stockmen that the quatity of the midity
depends largely on the individualiter of the animal and upon the stage of lactation. Feeding quality of the milk. There are exceptions to the rule, however, and some have been able to increase the test by the use Excitement will often cause a variation in the test. A cow nearing the end of the lactation will usually test higher Victory Bonds-Cow not up to Quar1. If a person, whose estate is in-
vested in Victory 'Bonds dies without a will can Government claim same? 2. A buys a cow from B for $\$ 125$. B guaranteeing her to be alright. When A claim damages? If so how much? What action should he take?
Ontario
2. A has a right of action for damages in the Division Court. The amount would be whatever the Court might conBefore resorting to litigation A ought to make an earnest effort to get an amicable

Hydro Tree Cutting
my hront yard near the road fence, with some branches overhanging the Hydro as large and as great a danger to the line when it was erected as they are now. trees down in spite of my protests? overhanging their wires, but which do 3. Does the law allow the Co's employee to the the sole judge as to the


Commission to fell or remove any tree
or limb thereof which, in the opinion of the Commission, it is necessary to fell course, act through their emplovees. 1. De-horning Cattle horn cattle? Wis the best time to de-
due to freshen hurt cows about due to freshen to dehorn them? Will it
lessen the flow of milk? Is there any danger of cows aborting through the
sight of hlood in the stable? sight of hlood in the stable?
2. What is a prescription for a condition powder for horses? H. D. G. Ans.- 1. Dehorning should be done
when the weather is moderate, and before the fly season. March and carly April horn cattle. We would not care to delanger of them losing the calf. Most cows will fall off in the milk flow a little, come back to normal. 2. A teaspoonful of the following condition powder:' Equal parts sulphate iron, gentian, ginger, and nux vomica.
The horse should be fed well and given daily wrorise.
$\qquad$ his suberipty-sixth year, in renewing pamphlet of but a few pages issued monthy. "I much appreciate the journal and

## How to Get Better Yields of Milk

Many a farmer has been perplexed after learning something about rationing to discover that his feeding is not producing results. Many feeds are high in milk-producing protein but fail because the feed is so indigestible that little of it is absorbed into the system. Getting that digestibility factor right is one of the niceties of rationing which has been taken care of in

## Monarch Dairy Feed

Its high digestibility means that a maximum amount of nutrient elements is assimilated. Therefore you get more feed value from Monarch than from other feeds. It means both economy and better yields of milk.
Monarch Dairy Feed is composed of oil cake meal and cottonseed meal, both of which are rich in protein. For bulk there is bran, corn feed and barley feed. The propor-
 ons have been calculated with the utmort accuracy for producing better yields of milk. The proper balance of oil cake meal and cottonseed meal prevents constipation that takes place when cotton-seed meal is used alone. Monarch is palatable and highly digestible. To keep your cows in best condition the year around, thus getting better yields in the milking season, it certainly will pay you to use Monarch always. Guaranteed analysis: protein $20 \%$, fat $4 \%$.
Get a ton from your dealer. If he does not sell Monarch, write us direct, giving dealer's name.

The Campbell Flour Mills Co., Limited
West Toronto

Raymondale Holstein-Friesians

Avondale Pontiac Echo. Several of these are of serviceable age, and all are f
good record damm. Quality considered. our prices are lower thai anywhere
else on the continent.
These youngsters should not remain long.
RAYMONDALE FARM
Write to-day.
D. RAYMOND, Owner

33-LB. GRANDSONS OF LULU KEYES

 D. B. TRACY (Hamilton House Farms) COBOURG, ONT.

## Sunnybrook Holsteins!

The Bull is the first consideration!


Jos. Kilgour, Eglinton P.O., North Toronto

## Manor Farm Holstein-Friesians

## 

GORDON S. GOODERHAM, Clarkson, Ont


Cream Wanted
Ship yours to us, as we must have it to the
supply our wellestablished trade with
good ouality butter.


Mutual Dairy \& Creamery
Toronto - Ontarle
Messrs.A.J.tickman \& Co.


䧺

## Holstein Bulls

15 ready for service 11 younger. From dams
with 32.7 los. butter in 7 days to those priced for
the most conservative buyer tion
R. M. HOLTBY

Fairview Holstein-Friesians


FRED. ABBOTT

## 



It is Simple
$\begin{aligned} & \text { Requires no special skill } \\ & \text { working parts in to run-all }\end{aligned}$ working parts in plain sight. Best of materials-proper design; no Has Variable Drop Plants thick or light to suit the land Evenly Balanced Makes easy work, light draft, and less Very Adaptable Plants 2,3 or 4 kernels per hill, or drills
it in rows-as you wish Fertilizer, Too Special attachment, works automatically,

## Plants Seeds in Hills or Drills it in Rows

field. Its. variety of work, its convenience of. its every feature in it has been tested and proven hundreds of times in
 use a Cockshutt Corn Planter. Anyone who can drive can plant a model field.

We say, write at once for our new, Illustrated Corn Planter Folder. You'll
COCKSHUTT PLOW CO. Sold in Eastern Ontario
Brantford, Ont
Quebec and Mariti
THE FROST \& WOOD CO Montreal, St. John SMITH'S FALLS,


## HEMME'S LATEST SEEDER

where you want it and not it
waste any where your deal of seed and labor in thinning as seed a is soweat
as shown here as far apart as you like to set it and as many
as you like. Our large steel disc turn cutting the
furrow, will not trail seed Iurrow, will not trail seed or fertilizer. You will
produce enough extra roots to pay for it on 1 or
acres. Note the great amount of saves, will sow rape, turnip, carrot, onion labor it sugar-beet, mangel, cucumber, sugar-cane, corn, or are shipped freight paid direct from factory Fertilizer attachment fit on any other root seeder. Hemme's Seeders A. HEMME \& SONS

Dublin, Ontario

## JUST JERSEYS <br>  <br> 

coaticook, oue
Will Sell Few Fresh Jersey Cows

 dit pointa at Guelph, 140 days



Jerseys and Berkshires


 | a bire for improven |
| :--- |
| deecoription and pri |

 JERSEYS of his dauuthers on ther tean Champot Rose Romer, winner of first prize with five


The Edgeley Champion Herd of Jerseys


## LAKESIDE AYRSHIRES

## ionship in Sherbrooke, and first in their respective classes at Quebec, in addition tking the special prize for the best bull on that

 Geo. H. MontgomeryWestside Ay rshire Phitature ord


Questions and Answers. Miscellaneou

Blackleg in Cattle
Is there any preventative for black.
leg in cattle? We had several leg in cattle? We had several dor black
turned out last spen turned out last sprisg. Is there
vaccine for it, and if so where secured? for it, and if so where can it A. . as a preventative a for blackine to be ued Dr. F. Torrance, Veterinary Directer neral, Ottawa, regarding the vaccine.
Treating Potatoes for Scab.
How much formalin should be used fo a bushel of potatoes when treating for
scab?
Ans.-Treatment for potatoe w. consists of immersing the tubers for two
hours in a solution to thirty gallons of water, after formaii tubers should be put in clean sacks or bins. Treatment should be giveni belore
the potatoes are cut

Killing Willow Trees
What will kill young willow trees in
swampy land? swampy land? The old trees wrete cuit a few years ago but the young shoots are
now about an inch thick. Ans.-Willows are very persistent and are rather difficult to destroy without the bark back will help to destroy flem Some claim that boring holes in the stump and filling with coal oil will kill
the growth. However yon the growth. However, you will likely
find that it will be necessory axe quite frequently in the removing of the new growth.

## Warbles.

What is the cause of warbles in cattle of the worm coming out whole as it usually does? Coming out whole as ot to help the present condition of affected
animals?
D. A. B. Ans.-The matter forming indicates that the worm has died and a little into go over the animals and squeeze oit the warbles and kill them. It may be necessary to use a sharp instrument to
lance the lumps. After removing the lance the lumps. After removing the
matter and the warbles, it might be well to use a little disinfectant solution.

## Heaves.

1s ther any cure for heaves? G. E.M Ans.-The common causes of heaves are pre-eving diseases of the respiratory is not in condition, and the wrong method of feeding. Heaves are more common in horses that are fed heavily on dusty
timothy and clover hay and allowed to timothy and clover hay and allowed to
drink large quantities of water after feeding than in horses that are fed on clean, high-quality feed. Chronic in-
digestion aggravates the disease. Heaves are a permanent disorder but may be relieved by careful attention to the
animal's diet. Dusty hay should not be fed to horses. The animal should not be allowed to gorge itself on water or feed. When working, feed lightly on roughage and more hberally on grain.
Sprinkling the hay and oats with a little sprinking the hay and oats

Sweet Clover and Alfalfa
What time of the year is it advisabl to sow sweet clover and alfala, ${ }^{\text {and }}$ Thich seed should be used per acre? The field I was thinking of sowing it on has not been seeded down for fifteen years. The sol is of a sandy nature and abour hall the held is rolling 1 was thinkin
of working the field until about the middle of July and then sowing the hilly part with sweet clover and the level part with Ansta, without a nurse crop. T. J. Co do very well when sown alone on well spring. Both crops may be sown with a nurse crop in the spring. Alfalfa re quires a soil where the water-level is several feet below the surface. It is a
crop which does well in some sections crop which does well in some sections
but is a failure on others. On the heavy clay of Haldimand County, it grows to perfection. Sweet clover does well al-
most anywhere. It is a verv eood pasture most anywhere. It is a very good pasture
crop but alfalfa is superior for hay. 15 to 20 lbs . of seed per acre is very good

## Miscellaneous,

lackleg in Cattle.
any preventative for black
e? We had several die when last spring. Is there
it, and if so where can it bi It, and if so where can it be ere is a vaccine to be used
ntative for blackleg. Wite tawa, regarding the vaccine. ing Potatoes for Scab. formalin should be usel fo
potatoes when treating
atment for potatoe lution of one punbers for tw lons of water, after which ment should clean sacks o
kill young willow d? The old trees were ninch thick young shoots are ows are very persistent and lifficult to destroy without
oving the oving the stump. Peeling
$k$ will help to destroy them.
that illing woring holes in the However, you will will kill
Hill be necessary to use the

## Warbles.

e cause of warbles in cattle
ge lump of matter, instead coming out whole as it Can anything be done
resent condition of affected
tter fo D. B. m has died and a ilitte in
as set as set up. It is advisable
e animals
nd nd kill them.
use aueere out
use use sharp instrumen to
nps. After e warbles, removing the disinfectant solution.
-
non causes of heaves 5 diseases of thes respiratoryy exercise when the animal
ion, and the Ceaves are more common
are fed heavily lover hay andy on dusty
low tod to $n$ horses of water after laty feed. Chronic in
vates the vat disorder disease. Heaves areful attention to the
Dusty The animal should not
gorge ge itself on water or
kings, feed lightly on more liberally on grain. hay and oat.
commended.
and Alfalfe.
year is it advisable
and alfalfa.. How
g of sowing it on has
han for fiften y
dy not hitteen and abouts. rolling II was thinking
eld until about the middle
en sol en sowing the hilly part a nurse crop. T. I. C. ${ }^{\text {tith }}$ hen sown and alfalfa both
hown well
Sown ops may be sown with a
the spring the here the Alfalla re
ww the
well in some sections
chers.
On the heavy
 Suppose you were Farmer John Brown and you wanted to buy a separator. You asked several separator manufacturers to send you a ten-word telegram, stating in the most convincing way, why their separator was the one you should buy. Sharples would only need five words: "Skims clean at any speed," and you would not have to ask for anything further

## SHARPLES CREACTION-FEED SEPARATOR

No other separator manufacturer could put into five words or fifty words, as convincing an argument as "Skims clean at any speed." They would tell you about the durability of their separator, that it was well-known, that it cost less and everything else but the one big reason why you need a separator-to get all the butterfat out of your milk.
Sharples also has the exclusive advantage of no discs in the bowl; knee-low tank once a month oiling system; durable construction and, besides, it is the pioneer Worth American Separator. office, addressing Dept. 78


THE SHARPLES SEPARATOR CO.
REGINA, SASK.
TORONTO, ONT.


[^4] supply our customers far and near. See ad. also on page 740 .

## Our School Department.

Relationship of the School Garden to the Class-

## Room.

The school garden helps the class-room in, at least, twoyways. First: it gives school children, at a time when they most need it. In this, too, it furnishes variety, and breaks the monotony of school life. But the second and most important consideration, is that it vitalizes school work. The principles of mechanical drawing are mastered while drawing a plan of the
garden to scale. Business methods are learned when buying the seeds; and, later in the year, when banking the profits. manners and community welfare when is taught not to walk in his pupil-neigh is taught not to
bor's garden plot
The lessons
nection with conservation of moisture make a tangible introduction to general physics in the class-room. Identification of weed seedlings and garden seedlings is the first step toward field botany. The
control of these leads at once to economic What better arithmetic problems can be given than the boy's own problem fertilizer his garden requires, when the tabulated amounts given are per acre? The insect pests furnish good lessons fungicides form a natural basis for lessons in chemistry. The covering of plants to
protect them from late spring frosts introduces a phase of physical geography not The written descriptions of garden
operations furnish unlimited exercise in operations furnish unlimited exercise in
English composition. No drawing lessons could be more-attractive than those based reading should be more suitable than some of the best garden compositions
written by the students.
$\qquad$ In the hands of the skilful teacher, the
chool garden is the connecting link atween the school and the real world.

Testing Germinating Qualities of Seed.

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


Beet and chard seeds normally test on more than one hundred per cent, because each of these seeds is really a fruit, which usually contains more than one embryo,
The vigor of the seedlings should to The vigor of the seedlings should be removed from the dish they them. When for a few days on a separate begrown moist blotting paper or cotton ficco kept in a warm place. Note the percen age number of seeds giving healthy plait of at least average growth.
None of the samples of seed should
run below a seventy-five per cent run below a seventy-five per cent-germin.
ation test, and should be nearet and ninety-five per cent to nearer nifin tory results.

## A Pound of Butter.

The oil of butter is especially well adapted for oiling the brain. Brain workers should use plenty of good buitet and never any of the substitutes for cow' butter, such as "oleo," "peanut-butter,
Butter is "concentrated sunshine, hence good butter tends to make people more "sunshiny" in disposition. It is also a "heat producer," and may be used more largely in winter when the weatior is cold. It furnishes energy to do physical and mental work.
Butter consists of the tiny millk-fat globules (so small that it requires about en thousand of them lying side by side o make a line an inch long) which are massed, or packed together, by means of a churn. After massing the fat globules, he butter-milk is removed, the butter is washed with clean, cold water, salt 1 to mix the salt through the butter exne he surplus moisture and to make it compact for printing or packing
The finest flavored butter is made fifo sweet cream, and the butter is salted very lightly. , Such butter has the true Oreamy, natural flavor of fine buttel separated from the milk by setting it for wenty-four to thirty-six hours in shallow pans, or deep cans, or by running the mik through a cream separator, the known as red or ripened, making what Butter for local markets and home use best made into prints weighing one pound. All farm dairy butter, put up the word "Dairy," and such butter may not have the word "Creamery" on the wrapper or package. Butter made during the summer may be packed solidly in an air-tight package
(crock, tub, or box), and if kept in a.cool place this will be quite palatable in winter, months of June and September are usually the best months for packing butter.
Good butter is a wholesome food, and should be used largely on the tables of find no place in Cana

A Community's School Gardening
arance. With the foundation securely laid
in the general unselfish, active interest
of the people of the community, plans for
the summer care of the garden can give
little anxiety. It is only a matter of good
organizing. Everybody will be helping.
The trustees will do their share. The
mothers' committee will do their share.
The ex-pupils will be strong supporters
and protectors. The School Progess,
Club will oversee the pupils' work. The
school will be alive and a thing of beauty
all summer, even if the teacher cannot
be on hand to join in the many good times
her people have had at their school. When
she comes back, she will find that her
community still holds together round the
school garden. A simple little school
fair in September will be the fitting
climax to the community thuilding and


MERICAN farmers use more trucks than A either manufacturers or merchants.
This is a positive answer to the question: Can a farmer use a Motor Truck at a profit?
The reason for this strange fact is simply this. The farmer who lives miles from a railroad is practically shut off from the best markets. Every thing he sells brings him less than the market price be cause he is so far away. Everything he buys costs him more because it must be hauled so far. He loses both going and coming. Motor Trucks are wiping out those distances.
The farmer with a Ford Truck practically lives next door to the market.
He has a choice of markets:
He becomes more independent.
He can market his goods when and where he pleases. He sells his crop to the very best advantage.
Any practical farmer who turns this over carefully in his mind, must see that he has a chance to better his position by the use of a Ford Truck. Hauling is a big part of his work. It is cheaper to haul with a Ford Truck than with a team and wagon. It is quicker. It is easier work for him. But consider the time and labor the farmer can save with a Ford Truck. With a team the trip to town takes the better part of a day.

A Ford Truck makes the same trip in two or three hours!
When labor is so scarce, what farmer can afford to waste day after day of his valuable time?

## Ford Trucks Complete With Body and Enclosed Cab

Ford One-Ton Trucks are now supplied, if desired, with standard truck bodies. Two types are kept in stock, ready for immediate delivery, the Stake Body and the Express Body.
Both standard bodies have the Enclosed Cab which protects the driver in every kind of weather. The windshield is the two-way double-ventilating type; keeps out the storm; keeps the cab cool in summer.
These two standard bodies are the typemost widely used and are adaptable to the ordinary hauling problem. They insure the greatest utility and longest service from the Ford Truck. They enable any Ford Dealer to supply you with a complete truck without annoying delays.
See the Ford Dealer. See these complete Ford Trucks. Consider the matter from every angle; the cost of feeding horses against the cost of running a Ford Truck; the time you lose on the road; the money yous lose by being so far from the best markets. There is only one conclusion you can come to. You will have a Ford Truck.

Ford One-Ton Truck (Chassis only) $\$ 750$ f. o. b. Ford, Ont.



One-/

Ford Motor Company of Canada, Limited, Ford, Ontario
THE LISTER MILKER "Follows Nature"
THE COWS LIKE IT

- Never beaten in competition. Reproduces as nearly as pos sible the action of the tongue and mouth of the calf, by its gentle reciprocating action.
The natural action on the cows teat causes the cow to remain in milk longer and prevents inflammation.
Instal a Lister Milker now, and
SAVE MONEY, TIME AND LABOR
Over 1,000 in successful operation. 360 installed in Great Britain in as many days.


PLAN YOUR TIME THIS YEAR IN HOURSZOF-̈TRACTOR WORK A Tractor will enable you to cultivate and'seed much more ground than is possible with horses-and with less hired help. When you buy the AVERY TRACTOR you get a machine that has been tried put and proven a success by tens. of thousands of farmers in this and other countries. You get a tractor that has been entered in every important contest and demonstration and has been put to the hardest tests. SEVEN SIZES-There's an Avery to suit the size of every farm.



LISTER GRINDERS Guáranteed
greater capacity for size than any others.

LISTER SILOS AND FILLERS A good silo well fillodcan be operated by as low as 5-horse power.


[^0]:    veeds are
    oo obtain.
    
    
    
    $\qquad$

[^1]:    When writing advertisers will you kindly mention The Farmer's Advocate.

[^2]:    hem, they are pro

[^3]:    When writing advertisers will you kindly mention The Farmer's Advocate

[^4]:    We have doubled our factory capacity and are determined to

