

## tor

ig more The upcal. As g parts replace.

sowing horse for Happy nse, and r, easier erature.

251

## (Government Standard)

"MORE BREAD AND BETTER BREAD AND BETTER PASTRY"

## Western Canada Flour Mills Company, Limited HEAD OFFICE: - TORONTO, ONTARIO

CANADA FOOD BOARD LICENSE NOS.: CEREAL, 2-009, FLOUR, 15, 16, 17, 18

## "PURITY OATS MAKES BETTER PORRIDGE"



738

## THE FARMER'S ADVOCATE.



FOUNDED 1866

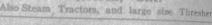


WATERLOO BOY Simplest, most Accessible, most Powerful Tractor on the market. nd General Farm Work, Threshing, Sile



Individual Farmers' Threshers, suitable size to be driven by small Tractors and Gasoline Engines. Do your own threshing. Keep your farm clean and save expense. Write for free catalogue, prices and any infor-

THE ROBT. BELL ENGINE & THRESHER COMPANY, LIMITED Seaforth, Ont.

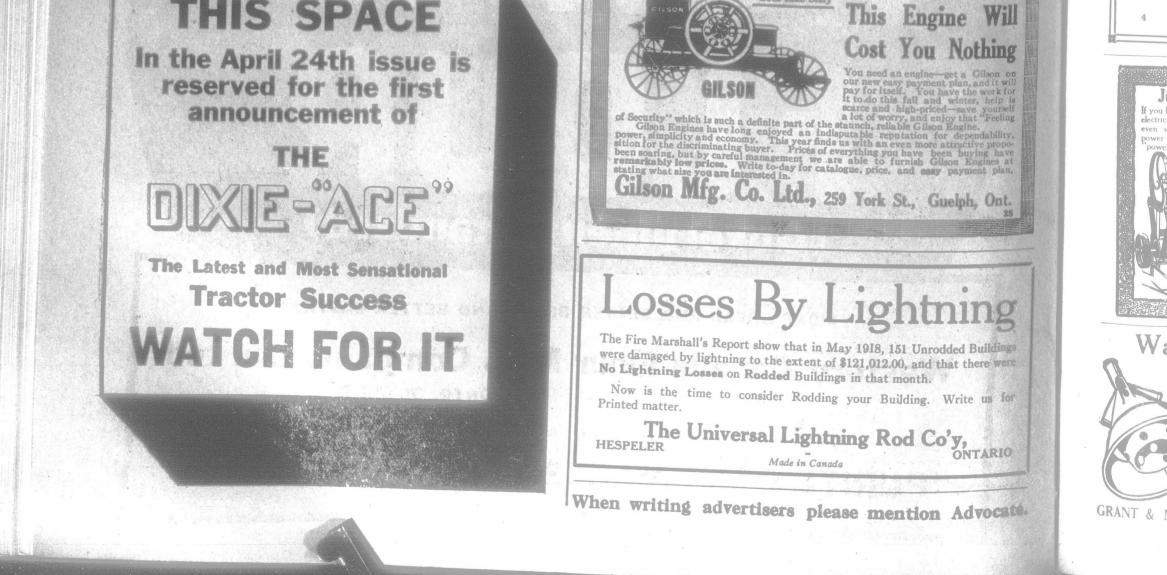




THE SARNIA FENCE CO., Ltd.

"Goes Like Sixty"





APRIL 17

tc

T

poir

othe of p

the

sets

city

perie

you

Plow,

drill, ure s

loads.

J

If you

Wa

SF

0

APRIL 17, 1919

## rs and Threshers



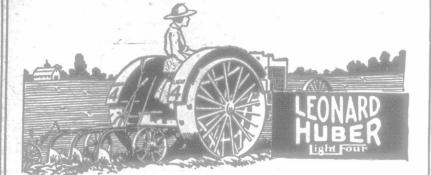
TERLOO BOY



hing. Keep your farm clear atalogue, prices and any infor-

BT. BELL ENGINE & COMPANY, LIMITED eaforth, Ont. tors, and large size Threshe





## This Tractor Fills the Bill for the Canadian Farmer

T IS the all-year-'round helper that takes the "arm" out of "farm."

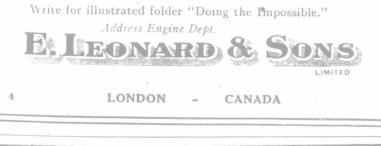
Built to last and give thorough satisfaction at every point. Its light weight causes it to run on less fuel than others, and prevents it packing the soil; yet it has plenty of power for its work and is strongly constructed to meet the hard usage a tractor will get.



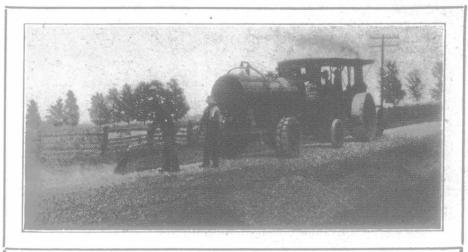
12 - 24

sets new standards among tractors for Economy, Simplicity and Durability. It will do all kinds of field work and all your heavy belt work besides. 40 years of experience makes it make good. Read how it works for you all year 'round:----

SPRING SUMMER AUTUMN WINTER Plow, harrow, Pull binder, Run cutting drill, pull man-ure spreader, drive clover cultivate, haul huller, thresh-plow, haulgrain kay loader, box, corn shell-er, hay baler, plow, haulgrain work you have work you have. er, plows. etc.



## THE FARMER'S ADVOCATE.



Applying "Tarvia-X" on Kennedy Road, Scarboro Township, Ont. Toronto & York Roads Commission.

# Making an all-year-round road with tarvia—

ALL the year round this Tarvia road will be smooth, dustless, mudless and ready for business!

As the picture shows, the layer of broken stones has been spread and rolled and now the

Prevents Duststeam-roller is drawing over it a tank-wagon of "Tarvia-X," heated by steam from the roller. A man at the rear directs the spray of 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.

The

TORONTO

MONTREAL

ST. JOHN, N. B.

Behind the tank-wagon other men are spreading over the Tarvia surface a thin layer of fine crushed stone or gravel which the

roller will presently roll down into the Tarvia.

739

Thus is built a Tarvia - bonded

VANCOUVER

SYDNEY, N. S.

macadam road that defies even our Canadian frosts, and withstands heavy motor-truck and swift automobile traffic.

Such is the ideal road for rural thoroughfares, because it is economical to maintain and will last three to five times as long as plain macadam, although it is only slightly more expensive to construct.

We have booklets about Tarvia which we should be glad to send you if interested.

WINNIPEG

LIMITED

HALIFAX, N.S.

Company

Made in Canada

Preserves Roads

6



Unrodded Buildings and that there were nth.

, Guelph, Ont.

ing. Write us for

Co'y,

tion Advocate.

Т

## **Getting the Most** From Mother Earth

The Part Played by Correct Lubrication

With ever-widening markets for their crops, progressive farmers number of engine users have turned have realized that animal power to the correct grade of Gargoyle long ago reached its limit of pro- Mobiloils, because the correct duction.

So they turn to mechanical power, as have men in other industries. With mechanical power they plow deeper, work faster, and cultivate a much bigger acreage.

The tractor has become a standard agricultural implement. It shortens labor.

The great war demonstrated two big things:

740

1-That mechanical power multiplies crop results.

2-That mechanical power, operefficiency, gets the ultimate out of Mother Earth—at costs per acre far below any ever before recorded.

You know the difference in power results and economy, between request. tractor engines that operate at maximum efficiency and those which are constantly breaking down in service.

Farmers who get the most out of their tractors, follow the Gargoyle Mobiloils Chart of Recommendaated and maintained at highest tions as the authoritative guide to

An instructive booklet on the Correct Lubrication of Tractors, and containing complete Chart of Recommendations will be sent on

In buying Gargoyle Mobiloils from your dealer, it is safer to purchase in original packages. Look for the red Gargoyle on the container.

#### FOR PASSENGER CARS

The passenger car has entered the farmer's life as a business as well as a pleasure vehicle. Its correct lubrication is as important as the lubrication of your tractor.

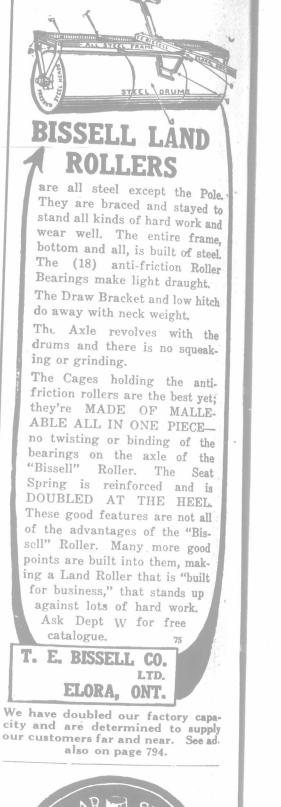
Write for booklet "Correct Lubrication," containing complete Gargoyle MobiJoils Chart of Recommendations. There is also a complete discussion of automobile problems and troubles.

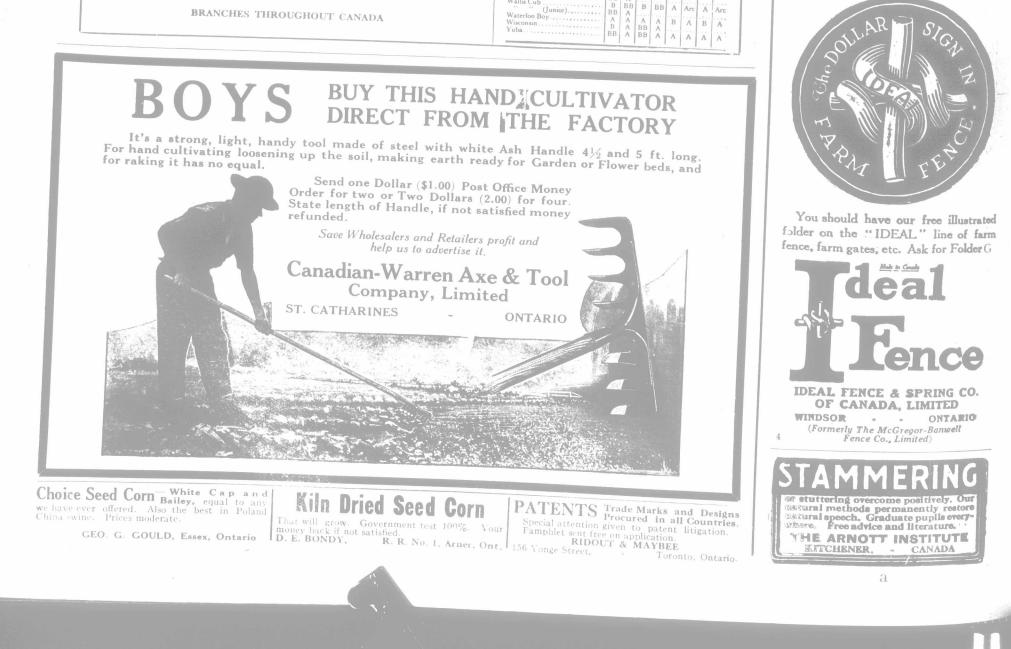
## IMPERIAL OIL LIMITED

Manufacturers and Marketers of Polarine Motor Oils and Greases Marketers of Gargoyle Mobiloils in Canada

**CORRECT TRACTOR LUBRICATION Explanation:**—The four grades of Gargoyle Mobiloii r tractor lubrication, purified to remove free carbon Gargoyle Mobiloil ''A'' Gargoyle Mobiloil ''BB'' Gargoyle Mobiloil ''B'' Gargoyle Mobiloil Arctic In the Chart below, the letter opposite the tractor indicate the grade of Gargoyle Mobilolis that should be used. Fo example A means Gargoyle Mobiloli "A," Arc mean Gargoyle MobiloliArctic, etc.

				_					
For years a constantly increasing	r	19	18	19	17	19	10	19	15
number of engine users have turned	TRACTORS	Der	22	ler	1	ler	57	10	1 20
to the correct grade of Gargovie		Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Mobiloils, because the correct		0	2		-	-		S.	12
grade keeps their engines delivering	Allis-Chalmers	BB	 A	BB BB	A A	BB A	A A	 A	A
heir best. Gargoyle Mobiloils	Andrews	В	A	B	AB	BA	AA	Â	A
engineers, after years of careful	Appleton Aultman-Taylor (18-36) Avery	BB	A	BB	AA		A	 A	A
esearch have produced the author-	Avery	BB	A	BB	AA	AB	AAA	B	· · · A
tative Chart of Tractor Recom-				ABB	AAA	A BB	Arc		A
nendations above '		BA	AA	BA	A	DD	A 	BB	A
nendations shown in part on the	Best	B	A	В	A	В	A	B	A
ight. The Chart shown here tells	Big Bull Bower City	В	Α	A B	A A	A B	AA	A	A
at a glance the cor-	Bower City Buckeye (Indiana) " (Indiana)(GiantBaby) " (Ohio) Case	B BB	A A	B BB	AA	BB	AA		
rect grade of Gar-	(Indiana)(GiantBaby) (Ohio)			B BB	A A	B	AA	в	A
goyle Mobiloils for	Case (9-18)	 A	 A	BA	A A	B	A	B	A
a number of the	** (9-18) ** (10-20) ** (12-25) ** (20-40)	ABB	A A	A	A	A	A		
	Chase	BB	A	BB	AA	B	A A	B	A
oils most prominent makes of tractors,	Commerce	BB	A .	BB	A	B	A		Α
both summer and		BB BB	A	BB BB	AA	A	A Arc	A	A
e of motor winter use.	Creeping Grip	BB BB		BB BB		B	A	B	A
Farmers who get it		A B		A		à /			Arc
Farmers who get the most out of eir tractors, follow the Gargoyle	(Big Four)	A	A						\rc
UDHOIS Chart of Recommend	Farm Horse Flour City	B	A	B	A	B	A  .		Α
ins as the authoritative quide to	Flour City (Heavy Duty) Galloway								lrc A
riect tractor lubrication.			A	B	A .	B	A		A
An instructive booklet on the Cor	Grain Belt. Gray.	BB			Α .			A	
Lubrication of Tractors and	ti t	B	A	B					1.4
manning complete ( hart of Do	Hart Parr Heider Holt Caterpillar	B .	A	B				B	A.
mmendations will be sent on	Holt Caterpillar. (Model 45)	B	A I	B	A	B	1 /		
luest.	Huber (Model 18)		. B	B A	1 .	B			
In buying Gargoyle Mobiloils	0200	B	1 1	B A	1 1	B A B A			1
m your dealer, it is safer to rchase in original packages.	K C Preirie D	A A B A	AB	BA		B A	1		
Look for the red Gargoyle on the		BA	B	B A B A	1 1	B A	A	A	1
itainer.	Little Chief	BA		BA	I	3 A	A	A	
	Mavtag	BA		BA	A	A	A	A	
	Moral (L M C-)		E	B A	E	A	B	A	
R CARS	Moline Universala	A	A	A	A	A			
e farmer's life or lite	New Age Nichols & Shepard				BI	B A			
e farmer's life as a business as	Oil Pull (Rumley Co.) BI		1.0.1	3 A		An			
lubrication is as important as	(Rumley Co.) B		B	A	В	A	B	Â	
	(Rumley Co.) Parrett Peoria		BF	A	A				e
cation," containing complete	Pioneer	1	BR	A A A	A	A	AA	A	
dations. There is also a com-	Plow Map		BB	A	BB	A		A	
and troubles.	- On the Contract of the Contr	1	BB		BB	1.4.4			
	(8-16) BB	A	BB	A	ABB	AA	ABB	AA	
	(Little Feur) B		BBB	A	A	Arc	A	Arc	
LIMPEDD	Simpley		BB	A	A	A	A	A	
LIMITED	Strait.		BB		A BB	Arc A	and a	Are	
ring Mater Oll	Tom Thumb (4 -1) BB		BB BB	A	B BB	AA	Α	A	
rine Motor Oils and Greases biloils in Canada	Twin City (Model 15) (Model 16) Wallis Cub	A	BB	A	AB	AA	A	A	
nous III Canada	(Model 15)				A	A	A	Â	- 1
	Wallis Cub (Model 16), BB	A							
UT CANADA	B	BB	в	BB	A	Arc	A	Arc	
UT CANADA	B		B A BB	BB A A	A B	Arc A	AB		





FOUNDED 1866 APRIL 1 ligh

191

co

teo

lat

for

tha

Ho

sta

str

is

by

di

kn

of

ed

th

pr

Bo

pro

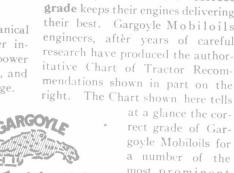
an by

by duc

SH

Fact GU

0



APRIL 17, 1919

#### THE FARMER'S ADVOCATE.

## *hinn-Flat* Protects Property Worry No More About Lightning

Lightning cannot harm any building equipped with Shinn-Flat Lightning Rods-this we guarantee when we make the installation.

Protection of this kind enables you to sleep better during the season of electric storms.

Lightning caused a loss, through Barn Fires, last year in Canada, of one and a haif million dollars, and Government Statistics prove that this terrible waste could have been avoided if the barns had been protected with dependable lightning rods.

LIGHTNING RODS PROTECT

SHINN-FLAT is the only Lightning Conductor in Canada or United States made in accordance with the latest scientific discoveries. Its exclusive flat-woven form is endorsed by the most eminent authorities in the electrical field as being superior.

How about your barn or residence? The time to install Shinn-Flat Lightning Rods is before the lightning strikes. Don't wait to think it over—the time to act is now.

Shinn Flat Lightning Rods are installed by men who have been carefully trained under the direction of Prof. Wm. H. Day-Canada's well known authority on Lightning Prevention.

Prcf. W. H. Day realizing the importance of efficient Lightning Rods scientifically instaled is now devoting his entire time to advancing the use of Shinn-Flat Conductors. You will profit by these services.

SHINN'S CASH BOND is issued by a large Bonding Company to the owner of every building protected by Shinn Flat, guaranteeing that Lightning will not strike. This is the only company that covers the work of its representatives by a Cash Bond.

FREE:-Our illustrated book Lightning "Cause and Control" by Professor Day describes Shinn Flat Rods and tells how the re-duction in the insurance premiums pays for cost of installation.

SHINN MANUFACTURING CO. OF CANADA, Limited Prof. W. H. Day. Factory and General Offices

We have openings for re-liable men Write for our GUELPH - ONT. Department A Sec'y. special agency proposition. ightning Can't Strike IF Shinn Gets There First

SHINN-FLAT

Made in Canada

DEALERS



**Most Accurate Ever Invented** 

Are you content to go on in the old-fashioned way using all your available farm help planting by hand, limiting your acreage because of labor scarcity, and keeping your 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 time.

The O-K Canadian is the only planter that has the endless cup seed dropping device. It does not pick or bruise the seed. It is noted for being the most

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 make any corrections necessary. Absolutely one piece of seed goes to each hill, thus making your seed go farther. Five years' tests demonstrate accuracy close to 100 per cent.

The O-K Canadian has equipment for correct depositing of fertilizer. Furrows are opened by two shoes. The first opens a trench to receive the fertilizer. The second shoe opens the furrow deeper, mixing fertilizer thoroughly with earth, thus protecting seed when dropped. This is cor-rect and necessary for proper fertilizer results.

You certainly ought to get full particulars about the O-K Canadian, the ma-chine that will enable you to put in more acreage into this profitable crop at low cost. Write to-night for free literature giving full particulars of O-K Canadian Planters and Diggers.

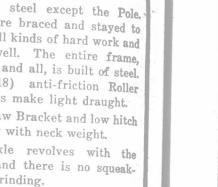
Canadian Potato Machinery Company, Limited 22 Stone Road GALT, Ontario Makers of the Famous O-K Sprayers







741



FOUNDED 1866

ALL STEEL FRA

OLLERS

ges holding the antirollers are the best yet; MADE OF MALLE-LL IN ONE PIECEing or binding of the on the axle of the Roller. The Seat s reinforced and is D AT THE HEEL. od features are not all vantages of the "Biser. Many more good built into them, makd Roller that is "built ness," that stands up lots of hard work. ept W for free

gue. 75 **ISSELL CO.** LTD. ORA, ONT.

ibled our factory capadetermined to supply rs far and near. See ad o on page 794.





ave our free illustrated 'IDEAL" line of farm s, etc. Ask for Folder G

Halt in Constr eal



CE & SPRING CO. ADA, LIMITED - ONTARIO e McGregor-Banwell co., Limited)



Partridge Tires Out-weigh Tire Troubles

ade by The F.E. Partridge Rubber Company. Limited Guelph Ont

Stop the Theft of Power It is not necessary to put up with loss of power and waste of oil and gas. Don't let badly fitting piston rings steal your motor's power and your gasoline. Install a full set of McQUAY-NORRIS

McQUAY-NORRIS Superoyl RINGS A special ring for engines that pump oil.

Used in top groove only of pistons to control excess oil, with McQuay-Norris EACTOR Piston Rings in lower grooves to insure maximum compression and fuel economy.

By creating uniform pressure on the cylinder walls, McQuay-Norris <u>East</u> Roor Piston Rings stop piston ring leakage, increase power, decrease carbon and save fuel and oil.

Wherever you are you can get them to fit any car, truck and tractor. Jobbers and supply houses in over 300 distributing points carry complete stocks of standard sizes and over-sizes, backed by a factory stock of 3,000 unusual sizes. You don't have to wait —the rings are awaiting your order.

LAK- ROOF

PISTON RINGS Increase Power-Decrease Carbon

Save Gas

Send for Free Booklet "To Have and to Hold Power"— a simple, clear explanation of piston rings, their construction and operation.

Manufactured by McQuay-Norris Mfg. Co., St. Louis, U.S.A. Manufactured in Canada by W. H. BANFIELD & SONS, LTD , 374 PAPE AVE., TORONTO

a

# 

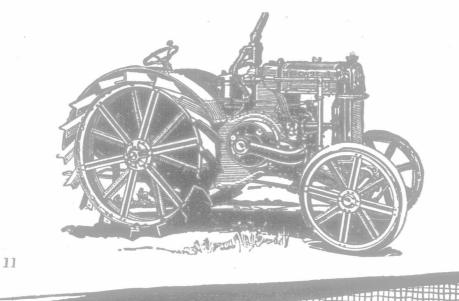
742

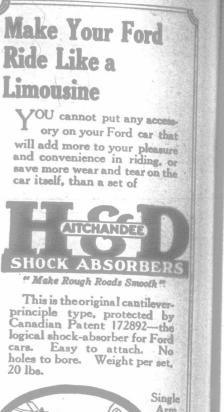
.

provide an economical aid to increasing production on the farm at a time when production counts for much and a means to accomplish more work at a time when labor costs eat into profits.

The Case 10-20 Kerosene Tractor is more than an efficient tractor—it is moveable power unit capable of furnishing force for the operation of any of the farm machinery. It develops 10 horse power at the drawbar while ploughing, seeding or harrowing and 20 horse power for operating the ensilage cutter and silo filler, the saw mill, the feed grinder or performing any similar work.

Over three quarters of a century of farm machinery construction have made the Case the tractor you need on your farm. Write our nearest office today for more details about the Case 10-20.





FOUNDED 1866

APRIL 17

"Edg

Save

Get com Drawings of Mater Catalogu

Buy 1

Get y

the source tributors Tools, Ha

any new ings that to get o the work.

Building

THE H

Hamilto

Pa

Ask fo



lengthen the life of your tires, increase your comfort in riding and earn their cost in a season. Over 200,000 in use to-day, Remit by Money Order or Postal Note. Use them for 30 days, then if not satisfied with your purchase, send them back and we'll refund your money. **Richards-Wilcox Canadian Co.** 303 Chelsea Green Limited LONDON ONTARIO

The



## e Your Ford Like a Usine

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



ke Rough Roads Smooth

is the original cantilever le type, protected by an Patent 172892—the shock-absorber for Ford Easy to attach. No bore. Weight per set.



"Edgegrove" HALLIDAY HOME NO HOME NO. 18 

APRIL 17, 1919

Build From Free Plans Save \$75.00 to \$150.00 architect's fees. Get complete Plans, Blue Prints, Detailed fravings, Working Specifications and Bill of Material, absolutely free of charge—our catlogue tells how. Buy Building Material at Factory Distributors Prices Get your Building Materials direct from the source of supply. We are Factory Dis-tributors of dependable Builders' Supplies, Tools, Hardware, etc. If you are clanning only new buildings or if you have old build-ings that need repairs or alternation, be sure to get our catalogue before going on with the work. CATALOGUE FREE Ask for "Catalogue of House Plans and Buing Materials." It's free to any inter-ested person. Address:— 'THE HALIDAY COMPANY, Limited

THE HALLIDAY COMPANY, Limited Factory Distributors Hamilton Canada

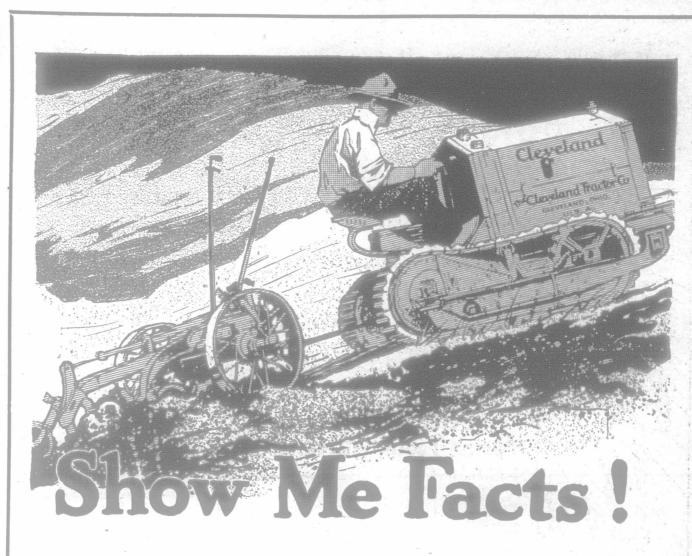
## **EDDY'S Paper Specialties**

'HE makers of 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 PAPER SERVIETTES look for Eddy's name. It is your best guarantee of satisfaction and the best possible value for your money. Our experience of more than 60 years in business is your safeguard

The E. B. EDDY CO. Limited HULL, Canada Also makers of Indurated Fibreware ( Washtubs, Pails, etc. c-9

#### THE FARMER'S ADVOCATE.



**B**EFORE you buy any tractor you have every right to say to the manufacturer: "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 1918 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 to 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.

Besides these things, I used my Cleveland 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

743



after Inventor died, when new at Twice the Price of new one blic thought they would not get Mills, in the vicinity of Beeton this the cash will that weight It is the only mill that weight In separating wild oats has no acity One Hundred bushels an attachment. Easiest mill to for particulars.

Vill Co., Beeton, Ontario.

ements Now p it is hard oduct like—



ried shades. LIMITED Adelaide St. W. 

Farmer's Advocate.



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.

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.



19107 Euclid Ave.

Cleveland, Ohio

The largest producers of track-laying tractors in the world

THE CLEVELAND TRACTOR COMPANY OF CANADA, LIMITED **WINDSOR ONTARIO** 

Cleveland Tractor



Kill the

LIV

"Under from?"

> Is that the field?

Railroad a few of the for the boy

Cast you This is a liv Canadian c

It is tha week that

of better ca

The offic and marketi Don't back-

In the F which discu kinds of fer but the prin

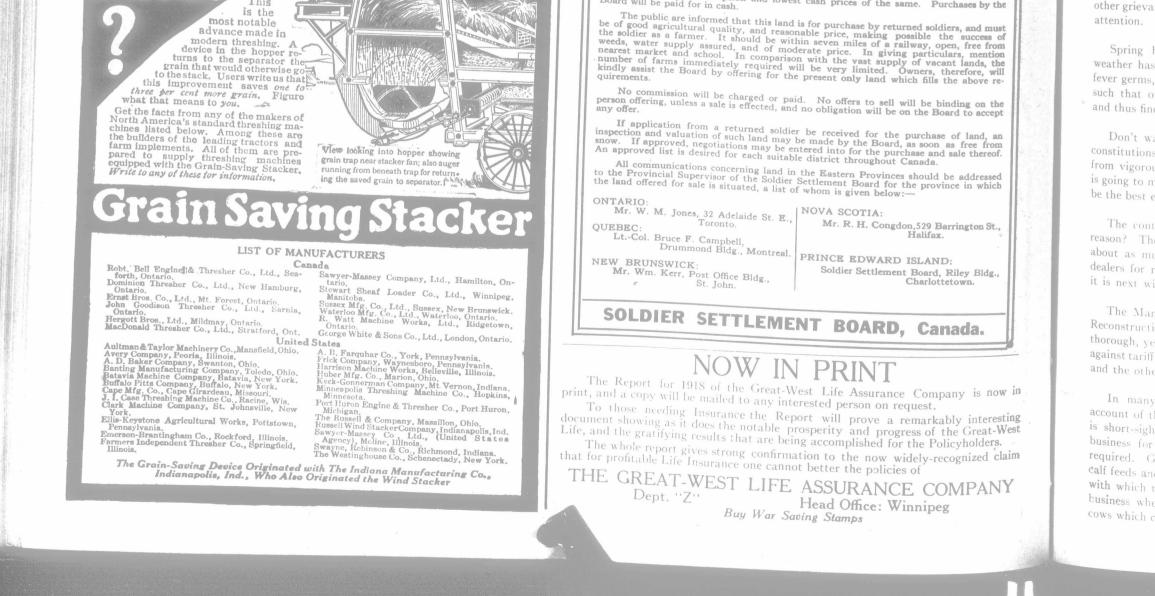
The "ole the high pri making a h use oleomar

A schen Labor to de position in 1 other grieva attention.

Spring 1 eather ha

Don't wa

The cont



advance made in

a. It RUNS when you never need to

ed and so expertly

no electric batteries:

or kerosene - and

f farmwork, and, in

#### ANY, Ltd.

ES IN CANADA. Cream Separators oha Churns and

VANCOUVER



ard of Canada by Order to be re-sold to qualified anent vocation.

hich they may wish to each of their Provincial district of the Eastern ame. Purchases by the

urned soldiers, and must possible the succ ailway, open, free fro vacant ands, the therefore, will hich fills the above re-

## The Farmer's Advocate Home Magazine PERSEVERE SUCCEED **ESTABLISHED** 1866

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875

# **EDITORIAL**.

LIV

Kill the smut germs before sowing the seed.

"Under protection, where will the revenue come from?"

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 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 some attention.

nild enough to incubate the springand thus find relief.

## 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 faster than it is in the country. Yet the world is being fed. If there was to be any great world-wide move from the cities to the farms, the production of foodstuffs would increase to such an extent that not only would there be large surpluses, but prices of foodstuffs would go down and farming would be still less profitable.

The reason that the increase in population in our a few of them might be picked up as Christmas presents 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-land 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 taken in Caledon Township. Peel County, but certain 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 latter investigation will reveal the truth in regard to beef cattle farming, and show Spring has been rather tantalizing so far. The what practices should be endorsed and what methods should be condemned in that part of the Province fever germs, but the condition of the land has not been. Dairymen learned something from the Oxford County such that one could get on it with drill and harrows survey. 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 losses to the public gaze. In these times of so much acrimonious 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 just how it stands in its relation to them? When all industries 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 available to 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 the 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 survey operations.

required information. A logical step in advance would be the creation of a new department at the Ontario Agricultural College where students would have the opportunity of studying Farm Management and co-ordinating the teachings of the various departments. Such a department would be a good thing for the College, it would be a good thing for the students, and the instruction given, based naturally on the results 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.

1386

#### **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 gratifying results, because of the large number of pupils found to be suffering from defective hearing, defective eyesight, 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 he backwardness was found to be caused by some physical defect easily remedied. Slight operations, spectacles and other little 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 too soon. For years "The Farmer's Advocate" has been recommending consolidated schools. We have pointed out 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 or community schools of some kind. We are of the opinion that the Department of Education should lead in this matter, and show the people of this province what advantages there are if we will accept them. Consolidated schools should be given a thorough trial, and if found superior to the common, ungraded country school, then no stone should be left 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 teachers 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-

- will be binding on the on the Board to accept
- purchase of land, an , as soon as free from chase and sale thereof. Canada.
- es should be addressed the province in which
- don,529 Barrington St., Halifax.
- ISLAND: nt Board, Riley Bldg., Charlottetown

Canada.

e Company is now in equest remarkably interesting gress of the Great-West r the Policyholders. videly-recognized claim es of CE COMPANY

innipeg

Don't waste time raising weak chickens with poor constitutions and lacking in vigor. Select eggs only from 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 fuel control is still in existence, and just about as much use as ever. They are now worrying dealers for reports on last winter's transactions, when it is next winter that most people are thinking about.

The Manufacturers' Association and the Canadian 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. This is short-sighted policy, for we shall be in the dairy business for a long time yet and milk cows will be required. Good calves can be raised on skim-milk calf feeds and other substitutes. Save the good calves with which to replenish the herd, and be strong in the business when the less provident are looking for milk cows which cannot be found.

Instead of curtailing this phase of the Department's work, it should be extended, now that farmers understand its usefulness and are willing to supply the

### The Farmer's Advocate and Home Magazine.

746

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

Published weekly by THE WILLIAM WELD COMPANY (Limited).

#### JOHN WELD, Manager.

## Agents for "The Farmer's Advocate and Home Journal." Winnipeg, Man.

THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday. It is impartial and independent of all cliques and parties, handsomely illustrated with original engravings, and fur-nishes the most practical, reliable and profitable information for farmers, dairymen, gardeners, stockmen and home-makers of any publication in Canada.
 TERMS OF SUBSCRIPTION.—In Canada, England, Ire-land, Scotland, Newfoundland and New Zealand, \$1.50 per year, in advance; \$2.00 per year when not paid in advance. United States, \$2.50 per year; all other countries, 12s. in advance.

ADVERTISING RATES .- 25 cents per line, agate, flat. Live 3. 4.

stock advertising rates given on application. THE FARMER'S ADVOCATE is sent to subscribers until an explicit order is received for its discontinuance. All pay-ment of arrearages must be made as required by law. THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper ordered to be discontinued. 5.

Responsible until all arrearages are paid, and their paper ordered to be discontinued. REMITTANCES should be made direct to us, either by Money Order. Postal Note, Express Order or Registered Let-ter, which will be at our risk. When made otherwise we will not be responsible. THE DATE ON YOUR LABEL shows to what time your subscription is paid. ANONYMOUS communications will receive no attention.

NYMOUS communications will receive no attention. very case the "Full Name and Post Office Address Must 8.

10.

be Given." WHEN A REPLY BY MAIL IS REQUIRED to Urgent, Veterinary or Legal Enquires, \$1.00 must be enclosed. LETTERS intended for publication should be written on one side of the paper only. CHANGE OF ADDRESS,—Subscribers when ordering a change of address should give the old as well as the new P. Q. change of address should give the old as well as the new P. O. address. 11.

WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve "The Farmer's Advocate and Home Magazine." Descriptions of New Grains, Roots or Vegetables not generally known. Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Con-tributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage. ADDRESSES OF CORRESPONDENTS ARE CONSID-ERED AS CONFIDENTIAL and will not be forwarded. ALL COMMUNICATIONS in reference to any matter on-nected with this paper should be addressed as below, and not to any individual connected with the paper. 12. 13.

14.

Address—THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (Limited), London, Canada

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 salaries only aggravates an unhealthy condition. Agriculture was calling for attention, and \$1,000,000 per year for ten years was appropriated by the Dominion Government under the Agricultural Instruction Act. This has not 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 school, but the two cases under consideration are analogous.

What is good in the Department's scheme for imovement should be a taunch support, but they should be urged to go on and give us better schools, with curricula more suited for country children.

I have just 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 although it isn't very flattering to him it is probably all

He said that he lived half a century before he found the kind of work he was fitted for. As a boy he worked 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 his health, so he bought a valise and filled it up with photograph albums and went peddling. However, as he coundn't sell any of them he was forced to go out 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 busi-ness concerns of the same town he concluded to return to the country as a book-agent 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 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 must milk the cows at least twice a day, to say nothing of feeding and otherwise looking after them. This fact, along with others in connection with the hog-raising, caused him to lose interest in the life of the agriculturist and as soon as he could dispose of his live stock he took the fastest train back to the city.

Again he made the rounds and finally landed in a newspaper office. But this time the unexpected hap-He stayed on. He claimed to have found pened. the work for which he was adapted. For the first time 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 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 he could have made a success of. They might come to the conclusion that anyone that didn't happen to hit the work that he was peculiarily fitted for would be a failure at everything else. It's a mistaken idea. were given brains and a certain amount of ability to enable us to adapt ourselves to circumstances. can make ourselves fit the job that comes to us, if we have determination enough to do it. The trouble with our friend that we have been telling about, was that, for the greater part of his life, he had been what he himself termed a "boozer". For some reason, best 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 and they are too much of a handicap to give any man a 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 agency. 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 at one kind of work as he would be at another that he thinks he is better adapted for, but if he is the right kind of a sport he will turn in and do the best he can with it. Happiness 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 fact 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 he gives expression to is the important point and I can't help feeling that there is a good deal of truth in it, although it runs contrary to the general idea. Here it is:

FOUNDED 1866

#### Nature's Diary. A. B. KLUGH, M.A.

#### The Groundhog or Woodchuck.

The Groundhog, otherwise known as the Woodchuck, 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 Rockies and British Columbia it is replaced by an allied species known as the Hoary Marmot, Whistler, or Siffleur,

The Groundhog is an animal of the open forests, and its chosen habitation at the present time is just at the margin of a wood or copse where it joins a meadow. It rarely wanders further than a hundred yards from 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. Some have but one entrance and a total length of but six feet. They usually have two entrances and several galleries with chambers at the end of each gallery, in 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 in-ventor of the "dry earth closet," as at the end of its main gallery it has a chamber in which it buries its excrement

The Groundhog when pursued in its burrow frequently plugs the burrow behind it.

The young are born in a chamber in the burrow about the end of April. They number from two to eight, but usually there are four or five. They are blind for about a month, and do not come out of the 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 the parents and eight young out feeding. The mother came out first and called; the father came out, then 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 busy storing up a supply of fat to last it through the winter and early spring, and about the last of the month it retires for the 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, often before the snow has gone and certainly before its supply of green food is ready, and goes on quite extended trips, as is revealed by its tracks on the snow. The purpose of these trips has not been satisfactorily determined, though it has been surmised that this is the mating season.

This species can, and occasionally does, climb trees Merriam says: "Woodchucks, when molested, and 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 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 fast approaching enemy, they ascend large, erect trees 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 a few feet without falling. Neither can they stop and go on again before reaching a branch or other resting place."

APRIL 17,

Care of

A brood functions of should, other the one that profitable to foals; and, u doubtless con as it may, t breed one or performance work, hence manner of ti

of this article Some clai days' rest be she shows no turition will right along parturition. perform light mare during ie asked to etter perfor idleness, u her time on way. Under at least 10 d the foal. Th strain on the formance of Hence, we ca functions are care and an feed of first She should be supply of feed that wi and muscle, same time secretion of oats and bra gcod hay, or season, has p best ration poses.

Provided gular work h grain should for an anim breeding. W it is good grain four rather than amount give The colt can taught to e quite young. in most cases to eat out of it is better to separate box at the prope better to hav so that she foal after she her own ra oats is proba feed for the foal, but ro good results; When the better to ha fortable box not attempt boxes, etc., any way. take more ex not thrive so the driver, a tangled in th dam is hitc The box in w no danger o to follow hi high that h there should his head. tented in the and grass wi In fly time the mare be this kind of milk her a l the mammar continue this the habit of the weather ordinary wo the stable. once, but performing warm, it is d In cases of and is very lia When the mil little off a

-

#### Making a Success of One's Life Work BY ALLAN MCDIARMID.

A certain friend of mine has been all his life-time wanting to get on to a farm and make his living there, instead of being tied down to the job he is at. Force of circumstances made a school-teacher of him, and kept him at it ever since. There isn't much question but that he would have made a successful farmer, as he has plenty of ambition, a good head and a strong constitution. He doesn't like school teaching, but has made up his mind at last that it has to be his life-work and so is putting all his energy into it and has every reason to think that what he is doing is of value to his pupils, aside from whatever it may be worth to himself.

A contrast to this case is that of another man I have known for years. He has been on a farm practically all his life and I don't think that, if he expressed his mind about it, he would say that he ever took much pleasure in his work. He has a talent for the working out of problems of all kinds and is strong on theory, but should have a partner in the business with him who would put these theories into practice. He would have made a first-class college professor or a demonstrator on some of our Experimental Farms. Like my friend the school teacher, he's in the wrong line of work to bring him the greatest amount of happiness. But in spite of his discontent he has stuck to the job and has made a good living for himself and his family. Some people called him a "misfit". Maybe he is.

"Not to be unhappy is unhappinesse And misery not t' have known miserie; For the best way unto discretion is 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 ourselves tied to a job that seems to afford us less "happi-nesse" than "miserie". Perhaps it was a matter of some importance that we should have learned a good many of the things that we did, after we had undertaken 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-respect. We'll get out of it what we put into it, whether it happens to be running a State University or digging a ditch in our back field.

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. 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 asleep. 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, looked all round, and seeing nothing unusual settled himself to sleep again. Another pebble dropped on him was evidently too much of an annoyance, as he descended into his burrow.

When Groundhogs become over-numerous they frequently 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 end of the burrow, and will send them into a sleep from which there is no awakening.

Use the harrows freely on the full-plowed corn land and those fields that will be seeded last.

FUJI MICRO SAFETY . N

#### B Diary. GH, M.A.

or Woodchuck. vise known as the Wood-Canada, occurring from the l as far north as Labrador. ave Lake. In the Rockies eplaced by an allied species t, Whistler, or Siffleur.

nimal of the open forests. the present time is just at se where it joins a meadow. han a hundred yards from is seeking a new location ntly does every spring. in their complexity. Some a total length of but six wo entrances and several he end of each gallery, in of the galleries may be over e entrances have a mound ut some have not, and in has been excavated from ndhog is the original in-oset," as at the end of its ber in which it buries its

ursued in its burrow freind it.

a chamber in the burrow hey number from two to four or five. They are d do not come out of the une. The male seems to e birth of the babies, and y are old enough to come tes that on July 6, at five aw a family consisting of out feeding. The mother ne father came out, then all the young ones. B are nearly full-grown, and dig burrows of their own. oundhog is busy storing through the winter and st of the month it retires dually into the dormant on, a state which is not a state midway between ibernation all the bodily minimum. The rate of in ordinary sleep, as in hes only once every five ion is so reduced that the the arteries and veins, faint as to be almost

lite early in the spring, and certainly before its nd goes on quite extended acks on the snow. The t been satisfactorily desurmised that this is the

onally does, climb trees , when molested, and ful days, often climb up y and young trees that ot infrequently scramble ch have partially fallen, them against slipping hard pressed by a fast-cend large, erect trees me distance from the this, they must take

## APRIL 17, 1919

## 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 should, other things being equal, rear a better foal than the one that has to work. It is claimed that it is not profitable to keep a mare for the sole purposes of raising profitable to keep a mare for the sole purposes of raising foals; and, unless she be a high-class mare there is doubtless considerable force in the assertion. Be that as it may, the fact remains that many farmers who breed 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 manner of treating such 'mares and foals is the object of this article.

Some claim that a mare should have at least a few days' rest before parturition, but it often occurs that she shows no definite symptoms to indicate that parshe shows no dennite symptoms to indicate that par-turition will take place in a few days, and is worked right along until she shows symptoms of immediate parturition. We do not think it unwise to ask her to parturition. We do not think it unwise to ask her to perform light labor up to this time, but of course a mare during the last few weeks of gestation should not be asked to perform very heavy labor, but is much better performing light work than spending her time in idleness, unless it be at a season when she can spend in discontinuous of tables and the season when she can spend her time on pasture, or taking regular exercise in some y. Under any condition a mare should be allowed least 10 days to 2 weeks idleness after the birth of the toal. The nursing of a foal is probably as great a strain on the physical abilities of a mare as the performance of farm work is upon her non-breeding sister. Hence, we can readily understand that when the double functions are exercised the mare should be given extra

care and an extra supply of feed of first-class quality. She should be given a liberal supply of easily-digested feed that will produce bone and muscle, and at the same time stimulate the secretion of milk. Rolled oats and bran along with gcod hay, or grass when in season, has proved to be the best ration for these purposes.

Provided she is doing regular work her allowance of grain should be greater than for an animal that is not breeding. When practicable it is good practice to feed grain four times daily, rather than increase the amount given each meal. The colt can, and should be taught to eat grain when quite young. The dam will, in most cases, allow her foal to eat out of her box, but it is better to feed it out of a separate box that is arranged at the proper height. It is better to have the dam tied so that she cannot rob the foal after she has consumed her own ration. Chopped oats is probably the better feed for the quite young foal, but rolled oats give good results; and of either it

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 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 can get his head. After a few days he will remain quite con-

tented in the stall, and if supplied with a little chop

and grass will not suffer from hunger between meals. In fly 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 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 quite safe to allow the colt to nurse at

once, but should the weather be warm, or the mare

performing very hard work, or from any cause be quite

warm, it is dangerous to allow the colt to nurse at once.

In cases of this kind the milk becomes over-heated

and is very liable to cause diarrhoea in the young animal.

When the milk is in this state the attendant should draw

little off and allow a few minutes, say/15 to 20, to

After a time there will not be so much danger in allowing 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 their functions under such conditions. At the same time reasonable precautions must be continued in order to avoid digestive derangements. WHIP.

THE FARMER'S ADVOCATE.

#### In Defence of the Hackney. EDITOR "THE FARMER'S ADVOCATE":

In a recent issue you published a photograph of a heavy harness 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 unwarranted opinion. In a recent issue of the Westminister Gazette appears the following: "It is interesting to know that the motor car has not driven the horse out, for transport purposes. Plainly the authorities believe it will hold its own in civilian work, but if it did not, it would be necessary to give state encouragement to horse breeding." The Breeders Gazette, The Scottish Farmer The Farmer and Stockbreeder and other leading Farmer, The Farmer and Stockbreeder and other leading papers, devoted to live stock breeding are all of the same opinion. The Prince of Wales, gave, at the recent Annual Hackney Show, held in Newmarket, a Cup, for the best horse suitable to get remounts and artillery horses, which was won by Mousons Lovat Shales by Walpole Shales. A reference to the Annual Report of the National Live Stock Records, would have shown you the National Live Stock Records, would have shown you that the Hackney was more than holding his own and had a better year than either of the other light breeds. All the breeds suffered more or less during the past trying times. There have been more Hackney stallions change hands this year so far than in a number of years. There is a good reason for this; the breed is so well established and known for its superb conformation,

elapse before turning her into the stall with her foal.

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.

747

#### The Calgary Horse Show.

Beginning on March 25 the 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 class. It would be misleading to say that better classes have 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 Mc-Kay Bros., Carmangay, finally won. He is a great big worthy horse, with magnificent character and scale, and worthy horse, with magnificent character and scale, and 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 style with a little more scale, this good sire would have 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 underpining. He beat the Laine's Scotland Major, a sturdy, clean limbed Ino. 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 pointed out in the aggregation. Andrew Dollar, High River, won with comparative ease on Scotland's Cross, by Hamlet. In the championship duel the honors went to Baron Rozelle and reserve to Scotland's Cross. The mare championship was won by A. Webster, Lacombe, on Nettie of Penkiln, which won the agedmare class

Unlike the Clydesdale classes, the younger Percherons drew the plaudits of the ringside onlookers. The two-year-old stallion class in particular, in which no less than twenty-five horses were entered was an exciting less than twenty-ive 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 big-horse, 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 in Star. Layzell and Parr of Calgary, were second with in Star. Layzell 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 teature of the Fercheron exhibit. Six horses out of the twenty-five shown were exceptionally good ones, and about ten more were worthy of close scrutiny. Finally Jno. 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 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. a little wider foot.

The championship in the stallion classes was won by Private, shown by Grant, reserve going to Ontario, shown by Lane.

The champion female was Crescent, shown by Layzell & Parr.

#### Our Scottish Letter.

BY SCOTLAND YET.

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 Scottish Stallion Show, the annual meeting of the Clydesdale Horse Society, a visit from many overseas men serving in the forces and interested in horses, with provision for their education and entertainment, and (although it is always invidious for one to refer to himself) an almost unique presentation to the gentleman 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 secretraand introduction to the test indicates of the test in the test is the test in the test in the test is the test in the test in the test is the test in the test in the test is the test is the test in the test in the test is the test is the test in the test is would be cold indeed who did not feel touched by 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, "Thank you, from the bottom of my heart!"





safe to allow it all it will eat. good disposition, action and freedom from unsoundness. There is a waiting market for superior heavy harness When the mare is at work it is generally considered horses, 15.1 hands, over and under; also for those that better to have the foal shut up in the stable in a comdo not come up to this high standard, which are being fortable box stall with the door so high that he will sought for by the express companies and light delivery 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 companies in large towns and cities.

e rush, for they cannot of an upright tree and ithout falling. Neither before reaching a branch

e from their burrows articularly young ones, her than run away. In you again and again, nd biting your boots. re is clover, but in the , grain or garden crops tly in the early morning indown.

ntly lie out in front of ometimes go very fast saw one thus sleeping keeping hidden behind e on him. He started, othing unusual settled er pebble dropped on an annoyance, as he

ver-numerous they frely by their destruction oles they make which nd cattle. The surest pour some carbon bifill up the entrance. will descend to the hem into a sleep from

full-plowed corn land d last.

-

There is no doubt that history is repeating itself. When the stage coach was taken off the road for comwhen the stage coach was taken on the road for com-mercial purposes, I have no doubt just such pessimistic remarks were made 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, 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  $\pounds 2,075,858$ , or an average of  $\pounds 33$  4s. Prices have steadily risen since selling commenced, probably because only sound, hard and 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 £55, but extra good ones bring over £100. The record is 250 guineas for an American Percheron-bred gelding sold at Tattersalls. This information was forwarded by the Deputy Director of Remounts, who also says that the demand for high-class riding horses and polo ponies is far from satisfied and may remain so after the demobilization is completed.

#### 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 I do not re-member, but the number of three-year-olds was fully one 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 Peter Crawford's Strathclyde 1538. I cannot pro-Peter Crawford's Strathclyde 1538. fess 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 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 enough to beat the famous Druid 1120, which won first at the H. & A. S. Dumfries in 1878, and at the R. A. S. E. at Kilburn in 1879. I am not sure that even Druid 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 we could do with more of his type in so far as formation of top and quarters is concerned. In the threeyear-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. His breeding was never disclosed to Mr. Johnston, who bought him at the Merryton sale in April, 1878. His dam was a mare named Boosie which Lawrence Drew 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 became known as The King, and was awarded the Glas-gow prize as a three-year-old. Roderick Dhu had a stiff fight for first place at the 1879 show with Mr. Riddell's Rosebery, a light bay colt bred by Mr. Drew, and got by Prince of Wales 673, out of an English mare named Ruby. Rosebery was a nice quality horse with good feet and legs, and I rather think that according to 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 but he never travelled the district, nor did Bonnie Breastknot. The latter died at the beginning of the season, and the former was exported to Australia by 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 of the 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's seven-year-old Dunure Re-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. This year the winner of the Cawdor Cup was George A. Ferguson's four-yearold Ardendale 18993, which stood second in his class to Dunure Refiner. When, therefore, the horses came against one another for the Brydon Shield the issue had already been decided. Dunure Refiner is a beautifully balanced horse, very true to Clydesdale type. He has sweet-quality limbs and close action. His top and quarters are well formed and he has deep ribs. Ardendale, on the other hand, is of the more upstanding order, is not so deep in rib, and does not give quite the same impression of power in the fore limbs as Dunure Refiner. Of course, he is three years younger and if he thickens and grows down in rib he will be a much heavier horse than his successful rival on this occasion. Dunure Refiner is by Dunure Footprint, and Ardendale is by Bonnie Buchlyvie, both sires being by Baron of Buch-lyvie 11263. The third-prize aged horse was James Gray's Botha 19026, of the same age as Arendale but more after the type of Dunure Refiner. He has been a remarkable winner and promises well as a sire. His own sire was Baron of Buchlyvie. An extraordinarily good type of draft horse was fourth in Hiawatha Again 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 highly popular with horse-breeding societies, being hired three seasons ahead. John Samson's Drumcross Radiant 18323 which won both Cawdor Cup and Brydon Shield in 1915 was fifth. He was got by Hiawatha's son, Apukwa 14567 and is a beautifully topped horse with exceptionally good hind action. The sixth The sixth horse was William Kerr's Drexel 16548, by Revelanta 11876, and the highest-priced horse at the Banks dispersion in March 1918. The seventh, Mr. Pol-lock's Royal Fern 18078, a notable son of Bonnie Buchlyvie with the best of feet and legs. We have 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, which has the great record of having been first at this Stallion Show as a yearling, two-year-old and three-year-old. He is now owned by John Johnston, Carbrook Mains, Larbert, and was reserve for the Cawdor Cup. Second to him stood James Gray's great colt, Birkenwood 19350, of his own breeding, and got by Dunure Birkenenwood 18327, out of the beautiful prize mare Molly of Birkenwood 41028, by Bonnie Buchlyvie 14032. She was first prize brood mare at the R. A. S. E. Manchester in 1916, with Birkenwood a foal at foot. This colt has been hired for the ensuing season to the Donside district of Aberdeenshire. His terms are £8 at service and £10 additional for each mare proving in foal. That means that he can win about £500 in his first season. He is also hired for 1920 to Turriff district of Aberdeenshire. The third prize colt was George Bean's Royal Footprint 19539, a beautiful colt with the best of feet and legs, a fine short back and good long quarters. He was first in the following week at Aberdeen Two extraordinarily good colts were first and second in the two-year-old class at Glasgow. These were Thomas Clark's Rising Star 19836, from Pitlandie, Perth and George A. Ferguson's black colt, Passchendale 19815, from Turradale, Elgin. There was a tie between these colts as there had been a year earlier when they first met at Aberdeen. The same question arises between

them as between Dunure Refiner and Ardendale. Rising Star is a thick, deep-ribbed colt, with good top, and very good feet and legs. Passchendale is more of the upstanding, gay type. He was got by Phillipine 18044, for which Mr. Ferguson paid 2,400 guineas at the Seaham Harbor dispersion, out of Celia 43282, by Dunure Footprint 15203, and Rising Star is by Dunure Footprint out of Wells Mayflower 44057, by Star o' Doon 16103, an H. & A. S. first-prize colt in his time. Robert Graham, Kairnflatt, Kelso, was third, with Border Ensign 19631, a "slashing" big colt by Dunure Footprint.

In a fine class of colts foaled in 1918, colts by Apukwa 14567 were first and fourth, and colts by Dunure Footprint were second and third. The third has been named Dunmore Refiner 19897 and has been exported to Boston, Mass., by Mr. Grant. His price is quoted at £3,000. The fourth was sold in Aberdeen show-yard last week for £1,500. The latter price I can testify to as I was present when it was being paid. The colt which is named Alacrity was exhibited by James Gray, Crawfordstone, Kippen Station, and his buyer was James Kilpatrick, Craigie Mains, Kilmarnock, the new President of the Clydesdale Horse Society.

#### The Aberdeen Show.

The Aberdeen Show was held a week later. Its chief feature was the remarkable display of young stock, especially yearling fillies. The senior championship went to G. S. Ferguson's Passchendale, which had won in the two-year-old class. The reserve was Mr. Gray's Botha, which stood second in the aged class. Mr. Ferguson's Dunure Kaleidoscope 18335 which he purchased at the Dunure Mains dispersion for 4,100 guineas was first in the aged class, but did not compete for the championship, on account of the rule that a horse must be at least six months in an owner's possession. George Bean's Royal Footprint 19539 was the first ptize three-year-old. The junior championship which is confined to the winners in the two classes of yearling and two-year-old fillies, and the class of yearling colts, was won by Stephen Mitchell's firstprize yearling filly, got by Apukwa, out of Boquhan Jean 41590, by Dunure Footprint. The reserve was James Gray's first-prize two-year-old filly, Senga, own sister to 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 country for young stock, and several of the largest Clydesdale studs are now located in Aberdeen and Elgin. Recently George A. Ferguson paraded fifty stallions to a

#### FOUNDED 1866

managed milk-record herds were tabulated. The average for the fourteen herds over a normal lactation period was 533 gallons per cow. There is urgent need to eliminate the bad sire—not in the dairy breeds alone, but in all breeds. In Great Britain we have too great a difference between the high merit of our pedigree herds and the average merit of the commercial stock of the country. Recently Alfred Mansell, Shrewsbury, read a paper to the Farmers' Club, London, in which he advocated the elimination of the inferior or bad sine. He did not, however, define the term, while he condemned the animal. So far as horses are concerned the worst kind of sire is the animal that is almost, if not altogether, sterile. The Clydesdale Horse Society means to take steps to prevent the exportation of such. Possibly the end in view can hardly be attained without the co-operation of breed societies overseas.

#### Some Long-Lived Clydesdales.

In connection with the presence of overseas men at the recent Stallion Show, a lecture was delivered by the writer of this letter in one of the halls in Glasgow, It was well attended by the men for whom it was designed and many others. Over sixty photos were shown upon the screen, of famous horses and mares of the breed and it is noteworthy that at the Show there was exhibited the Clydesdale stallion, Montrave Mac 9958, foaled on April 23, 1893, and therefore almost twenty-six years of age. He was looking remarkably fresh and fit, with clean, flat bones, and he went round the ring like a three-year-old. His sire was the famous Macgregor 1487, which lived to be over twenty-two years old, and his dam was Montrave Maud 11786, whose sire Prince of Wales 673, died when he had completed his season in 1888, that is when he was rising twenty-three years old, and her dam, Moss Rose 6203, died when she was twenty-eight years old.

## LIVE STOCK.

#### Care of the Flock Header Throughout the Season.

EDITOR "THE FARMER'S ADVOCATE"

The use of a good pure-bred ram in the flock is essential to obtain the best results. The care of the ram during breeding season and after is also of due importance to insure the best results from mating and to

prolong his usefulness. The breeder usually purchases the ram early in the season that he may get a good selection but does not take delivery till the breeding season. He is then turned with the ewes at once. This saves the trouble of caring for the ram during the summer and fall until de sired for service. The care of the ram during the mating season will depend to a certain extent upon his condition and to a greater extent upon the number of ewes to be bred. The breed of the ram also plays an important part in the number of ewes that will be bred. If a show ram is to be used, he must be used moderately and then only with supple mentary feed. A ram in field condition will handle twenty to thirty ewes without extra feed and care if the ewes are running on fair pasture. Over this number, it is advisable, with the average ram, to give feeds of grain night and morn-ing. If there are over fifty ewes, keep the ram in during the day and feed moderately

and turn him if they are not Middlesex (

APRIL 17, 1

#### W.(

On April 2 successful She disposed of for attended by bidding was brought out fashionable br shank Butterf Geo. Amos &

Where is sight than in of the barn, or are frolicking forming antic the young thin ful eye on the would harm and herds are the greatest in gentle call of bawl of the cal to the stockma pens and yards increase means new stock. It in breed type a To have t necessitates ha

to parturition. in certain tro when animals to give consi to and at the t time for the li a good deal on some diseases each year bring must constan ulaities or sym would soon pr young things The dams, to feeding, and n stock invite di to perish thr is this true at at such high precedented. It is essent

yet not over-fa roots or silage gaining in fles condition cann and rugged a nor can she l pail. Care sh come chilled advisable to t day or two afte Many find tha is beneficial it is not adv for at least tw fever. This o producing fema The disease is u it is believed th freshens create to gain a fo becomes paraly to the side, and ing may prove the throat. I distending the oxygen has re to have a vet available cows The most the offspring of harbored in th ever, permit o the year. Th conditions so f providing succ cleaned. In where parturi and animals a this natural sp overcomes the which is suital excellent feed make satisfac the end of he give a quart of to Epson Salt to freshen an The cow di

748



Pride of Nullmills. A champion at Perth, and sold for 3,100 gs.

crowd of overseas men who were touring the North inspecting the leading Shorthorn and Aberdeen-Angus herds and Highland cattle folds, with the Clydesdale studs.

#### Ayrshire Activities.

At the Boreland of Balmagtrie sale of Ayrshires recently, 92 head of all ages made an average of 146 4s and 70 Ayrshire cows made an average of £53 16s. 3d. Great interest is being taken in milk records, and there is undoubtedly much room for improvement in these Great advances have been made where the system has been in operation for about twenty years, but there is still great room for improvement. The Ayrshire Herd Book Association and the Ayrshire Agricultural Association have resolved to adopt a scale of points in show-yard judging, which gives thirty-five per cent, to the authenticated milk yield in the case of a cow, or thirty-five per cent. for authenticated milking pedigree in the case of bulls and younger females. The other items recommended are thirty per cent. for form, symmetry and constitution, and thirty-five per cent for mammary development, which phrase is to include size of teats, shape of udder, and milk veins. Should this scale be adhered to, it will undoubtedly modify, if not wholly annul, the method of judging which put about seven ty-fiv per cent. on the shape of the udder and hang of the teats, and took next to no account of conformation and constitution. That all this is commendable reform is evident from such a fact as this. Recently in connection with a Government inquiry the authenticated milk yields of fourteen of the best

on grain with plenty of green feed and good clover or alfalfa hay and then turn with the ewe at night, or turn the ram with the ewes night and morning and put cach ewe out as she is mated. After sixteen days the mated ewes must be tried again to insure that none are returning. When the ram is handled in this way he will do excessive service without impairing his vitality and pulling him down in flesh. The prepotency of a sire varies to a certain extent according to his vitality and constitutional vigor.

When the breeding season is over allow the ram to run with the ewes, if he is in strong flesh, as he will then hold up fairly well. It is not a good policy to try to fatten the sire up quickly if he has lost flesh but rather to keep him only in strong working flesh acquired with plenty of exercise. Before the ewes start to lamb, take the ram away and either confine him alone or better still turn in with some other rams or wethers. Many rams become very restless and irritable when alone and this should be avoided. A ram that has become cross when with the ewes may be cured by turning him with other rams—providing the other rams do not use him too roughly. A good stock ram should not be fitted for shows and at the same time used for service.

In the summer time the ram may be turned with the ewes and lambs on pasture and will generally do well enough on whatever pasture the ewes are given—both before and after the lambs are weaned. When any of the ewes are coming in season in the fall, the ram must be taken from the flock, unless early lambs are desired,

rds were tabulated. The rds over a normal lactation cow. There is urgent need ot in the dairy breeds alone t Britain we have too great high merit of our pedigree it of the commercial stock lfred Mansell, Shrewsbury, s' Club, London, in which he of the inferior or bad sire, he the term, while he conas horses are concerned the nal that is almost, if not alesdale Horse Society means exportation of such. Poshardly be attained without ieties overseas.

#### ed Clydesdales.

presence of overseas men at ecture was delivered by the f the halls in Glasgow. It n for whom it was designed y photos were shown upon and mares of the breed. he Show there was exhibited trave Mac 9958, foaled on re almost twenty-six years emarkably fresh and fit. e went round the ring like vas the famous Macgregor ver twenty-two years old, Maud 11786, whose sire hen he had completed his he was rising twenty-three oss Rose 6203, died when

## ТОСК.

#### leader Throughbeason.

CATE'':

bred ram in the flock is results. The care of the and after is also of due results from mating and to g his usefulness. The arly in the season that y get a good selection bes not take delivery till reeding season. He is turned with the ewes at This saves the trouble ing for the ram during mmer and fall until de or service. The care of am during the mating will depend to a certain upon his condition and reater extent upon the r of ewes to be bred. reed of the ram also in important part in the r of ewes that will be If a show ram is to be e must be used modernd then only with supple y feed. A ram in field on will handle twenty ty ewes without extra care if the ewes are on fair pasture. Over ımber, it is advisable, e average ram, to give grain night and morn-there are over fifty eep the ram in during and feed moderately ed and good clover or the ewe at night, or night and morning and mated. After sixteen be tried again to insure en the ram is handled ssive service without ing him down in flesh. to a certain extent actutional vigor. over allow the ram to ng flesh, as he will then a good policy to try f he has lost flesh but working flesh acquired the ewes start to lamb, confine him alone or ther rams or wethers. ess and irritable when led. A ram that has may be cured by turnling the other rams do l stock ram should not e time used for service.

#### APRIL 17, 1919

and turn him with the last springs wether or ram lambs, 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 disposed of for the sum of \$5.765. The sale was largely attended by breeders from all parts of Ontario, and 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 Geo. Amos & Sons, at \$525. The imported cow,

#### THE FARMER'S ADVOCATE

Florence 56th, went to H. Inglehart, of Palermo, at \$650. This was the highest priced animal of the sale . F. Mitchell, of Burlington, paid \$500 for Maple Shade Nonpareil 10th, a three-year-old heifer. 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 selling together with the names and address of their purchasers:

#### Females.

Eclipse, Batty Bros., Meaford Locust Butterfly 5th, Geo. Amos & Sons, Moffat... Florence 56th (Imp.), H. Inglehart, Palermo Nonpareil of Oakville, J. F. Mitchell, Burlington... Maple Shade Nonpareil 10th, J. F. Mitchell..... \$275 525 650 300500

Maple Shade Lustre, G. F. Annis, Bowmanville Ballechin Daisy, W. H. Crowther, Welland...... Waterloo Lady, Frank Ford, Omagh..... -395 275 225 Fanny B. 65th, F. E. Holmsted, Ancaster 360 Crimson Vine 13th, W. P. Graham, Shanty Bay. Crimson Vine 13th, C. B. Swackhammer, Acton. Fanny B. 71st, W. H. Pugh, Myrtle Station..... Crimson Vine 11th, S. Griffin, Acton... Victoria 2nd, W. P. Graham... 180 250 185 200 160 Alice Queen, Geo. B. Smith, Ancaster 175

#### Males.

Oakville Prince, Jas. Black, Aberfoyle..... Choice Goods, F. Swing, Jarvis..... Gloster Ideal, W. F. Inglehart, Palermo...... 500 350 260

# Springtime in the Barnyard.

Where is there a more attractive and interesting sight than in the clean, strawy yard, on the south side of the barn, on a sunny April day when the young lambs are frolicking about, and the calves and pigs are per forming antics which develop bone and muscle? While the young things scamper about the dams keep a watchful eye on the proceedings, and woe unto the person who would harm one of their offspring. While the flocks and herds are being added to during the entire year, the greatest increase usually arrives in the spring. The gentle call of the lambs, the grunting of the pigs, the bawl of the calves and the whinney of the colts are music to the stockman's ears. Fortumate is the breeder whose pens and yards are inhabited with new life. The natural increase means more to the breeder than the purchase of new stock. It is the result of matings towards his ideal in breed type and conformation.

To have the young stock arrive strong and healthy necessitates having the dams in proper condition prior to parturition. Domesticating the animals has resulted in certain troubles and diseases which were unknown 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 farmer, and the success depends a good deal on the attention he pays to details. While some diseases and troubles are being mastered, some diseases and troubles are being mastered, each year brings additional problems, so that the breeder must constantly be on the qui vive to detect any irreg-ulaities or symptoms of ailments which, if neglected, would soon prove fatal. Undoubtedly, a good many young things die every spring through sheer neglect. The dams, too, are sometimes lost. Pampering, overfeeding, and not giving sufficient exercise to the pregnant stock invite disaster. At no time should stock be allowed to perish through carelessness, and more especially is this true at the present time, when animals are selling at such high prices and the demand for meats is unprecedented.

#### The Cow and Her Calf.

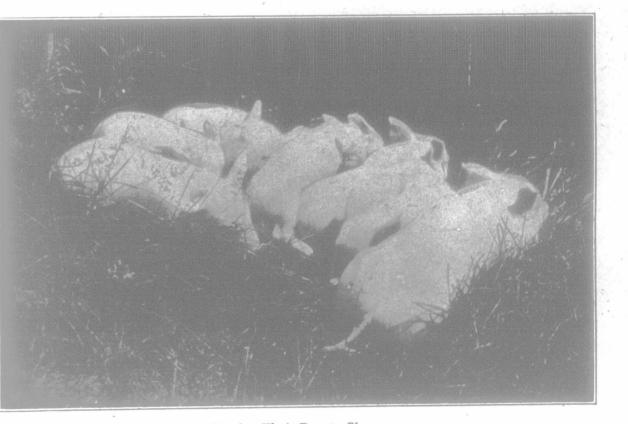
It is essential that the cows be in good condition, yet not over-fat, at the time of freshening. Clover hay, roots or silage, with sufficient grain to keep the cow gaining in flesh, make an ideal ration. A cow in poor condition cannot be expected to give birth to as strong and rugged a calf as if she herself were in fair flesh, 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 after freshening. It is advisable to take the chill off the drinking water for a day or two after parturition, and to feed lightly on grain. Many find that giving a bran mash for the first few days is beneficial. In the case of heavy producing cows, it is not advisable to milk the udder out completely for at least two or three milkings, so as to prevent milk fever. This disease frequently attacks the heaviest

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 if possible. Do not jerk; rather have a steady pull. A rope and pully may be used. If parturition is so difficult that it 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 be split, the tissues torn or the patient so injured as to cause partial paralysis by undue and injudicious force. If the afterbirth is not expelled within twenty-four

box-stall. She can then lick the new born calf which puts the blood into circulation. When the cow is tied it is not uncommon for a calf to perish before the attendant arrives. If a calf is dropped on a cement floor it soon chills if the weather is anyways cold. A chilled calf are to discuss the discuss of the discuss the calf is dropped helps to prevent the trouble. This discuss is seldom troublesome when cows freshen on chilled calf are to discuss the calf is dropped helps to prevent the trouble. This discuss the calf is dropped helps to prevent the trouble. This discuss the calf is dropped helps to prevent the trouble. This discuss the calf is dropped helps to prevent the trouble. pasture thus showing that the germs must be in the stable and points out the necessity of having the stalls thoroughly disinfected.

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 weeks older than they are, they will learn to eat so much the quicker. The sooner a calf commences to take these feeds the faster it will develop. A little whole 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 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-milk, 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 digestive system, and it must be kept in a clean, dry, 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



749

may be turned with d will generally do well ewes are given—both eaned. When any of the fall, the ram must rly lambs are desired,

producing female within about two days after freshening The disease is unknown with cows on range; consequently it is believed that emptying the udder soon after the cow freshens creates a condition which permits this trouble to gain a foothold. The entire system practically becomes paralyzed; the patient lies with her head turned to the side, and with a glassy stare in her eyes. Drenching may prove fatal, owing to the partial paralysis of the throat. If the cow falls a victim to the trouble, distending the teats and udder with sterilized air or oxygen has resulted in complete recovery. It is well to have a veterinarian do this, but should one not be available cows have been saved by pumping air into the udder by the use of a bicycle pump and teat siphon.

The most ideal place for animals well advanced in gestation is on pasture. Here there is little danger of the offspring contracting contagious diseases which are harbored in the stable. Our climatic conditions, however, permit of running the stock on grass less than half the year. Therefore, it is advisable to imitate natural conditions so far as possible in the stable, by means of providing succulent feed and having the stall throughly cleaned. In some sections the mortality runs high where parturition takes place before the grass starts and animals are allowed to condition themselves with this natural spring tonic. The good stockman, however, overcomes these difficulties by compounding a ration which is suitable to the animals in his care. Roots are excellent feed for pregnant animals, and oats and bran make satisfactory concentrates. If the cow nearing the end of her gestation period becomes constipated give a quart of oil along with laxative feed in preference to Epsom Salts. The latter are too severe for a cow due to freshen and the administering of them might be

The cow due to calve should be turned into a roomy

#### Getting Their Beauty Sleep.

ð.,

hours it should be removed. This also requires experience and care to avoid injury to the patient and to remove all the membranes. If a portion is left it may decompose and more or less poison the animal's system. The womb should be flushed out several times with a warm disinfectant solution.

After the calf 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 they are usually put on skim-milk after they are a few weeks old. It is well to make the change from whole to skim-milk gradually, and care should be taken not to over-feed in order that indigestion and diarrhœa 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 limewater 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.

they require exercise and a clean sunny barnyard is a good place for them to play in.

#### 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 the life of many a lamb which otherwise might perish. As spring approaches it is advisable to reduce 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 have access to free range so as to secure plenty of exercise 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

assistance is necessary it is advisable to disinfect the hands and apply carbolized oil to them. It takes practice to become adept at rendering assistance. If experience is lacking it is advisable to call in a neighboring shepherd or the veterinarian. Sometimes the lambs come very weak and require immediate attention. 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 necessary to hold her a time or two while the lamb 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 mortality 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 with the ewes excluded.

750

#### The Pig Crop.

The sow that is fed on roots 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 rears her litter well. The vices to which some sows are addicted are frequently due to an improper ration during the gestation period. Failure to supply feeds containing sufficient mineral matter may result in weak pigs. It is a good plan to give the sow access to a mixture of wood ashes, salt, charcoal and sulphur; 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 her new surroundings. A laxative feed is advisable. Constipation should by all means be avoided. Some hog men give the sow a lib ral quantity of straw while others prefer using a small amount of chaff or cut straw. A railing around the pen projecting out about ten inches from the partition and ten inches off the floor has saved many pigs from 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 of the basket keeps the young pig warm. When the sow quiets down the pigs may be placed with her. Howover in several instances

we have found it advisable to leave the pigs in the basket over night. Feed carefully for a day or two but when the sow comes to her milk she will require heavy feeding, especially if the litter is large. If the sow is a poor milker get the pigs taking cow's milk as soon as possible. If a few pieces of rag are placed in a dish of milk the pigs will soon start sucking them and in this way get the milk. Avoid getting them overfat if thumps would be prevented. If a run ay from the pen can be provided so much the better as the pigs will then take exercise which goes a long way toward warding off ailments to which young pigs are subject. In the spring of the year and during the summer the barnyard makes an ideal

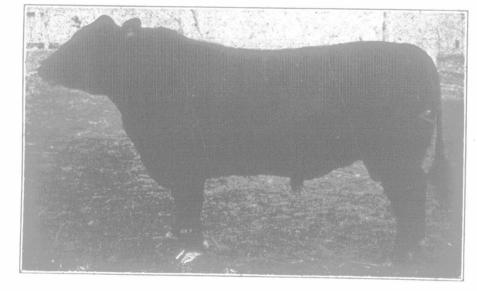
place in which young pigs can exercise. The colts arrive a little later in the with the intuition of properly looking after stock should cultivate the art. Thrifty sheep and healthy animals command the attention of all lovers of live stock. Even in the rush of seeding it pays to attend to details pertaining to the stock.

#### Tuberculous-Free Herds in Canada and Proposed Legislation.

In view of the fact that Hon. T. A. Crerar, Minister of Agriculture, stated before a meeting of the Agricultural Committee of the House of Commons that he desired to bring down in the Supplementary Estimates an appropriation 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 evident desire to have this item passed by the Cabinet Council and brought down to the House for consideration, we should be prepared to form an intelligent opinion as to what the effect will be. Having this in mind, a representative of "The Farmer's Advocate" interviewed Dr. F. Torrance, Veterinary Director-General as to what changes in inspection and the status of inspected herds would likely follow the adoption in Canada of an accredited herd system.

As is fairly well known, the United States has had such a system in operation for about a year and a half and by agreement between 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, is the great value of an accredited herd to the Canadian breeder. However, we in Canada have no accredited herds as yet, but when or if we do have them, the rules or regulations governing their inspections and the standards set up, must be practically identical with those now in effect in the United States, because of the existing agreement.

According to the United States Act, an accredited herd is one which has been subjected to the tuberculin



Edgar of Dalmeny. Champion Angus bull at Michigan State Fair. Sire of the Perth champion bull, 1919, which sold at 2,100 guineas. Owned by W. C. Scripps, Detroit.

test by Federal authority twice annually in succession the ad-

fictitious figures. Dr. Torrance is of the opinion that it would be a good thing if all tuberculin tests were made by officers of the Health of Animals Branch and petitions have been received to this effect, but there is naturally considerable opposition to such a proposal. There are a great many herds in Canada that are not yet fully built up and if these were entered in any scheme for accredited herds, their owners would experience considerable inconvenience and perhaps a considerable financial loss. Under an accredited herd system an animal purchased from a herd that was not accredited must be tested and kept separate from the accredited herd for a period of 60 days pending a re-test at the end of that period. This means that if an accredited herd owner wished to purchase a pure-bred animal for \$500 and after isolation and restesting the animal reacted he would be forced to stand the loss unless the previous owner would sell subject to these conditions, Even so the expense maintaining the animal separately for 60 days would have to be borne. On March 1, 1919, there were 402 accredited herds.

On March 1, 1919, there were 402 accredited herds in the United States and 1,996 pure-bred herds had been tested without showing reactors. In the opinion of Dr. Torrance there will be about 1,500 accredited herds in the United States after the next list is published in June. Of 3,210 pure-bred herds and 1,858 grade herds tested reactors were found in 1,224 pure- bred and 729 grade herds. Apparently nearly every State in the Union is falling into line with the Federal policy for the eradication of the disease and the legislatures of about 20 States have passed, or are about to pass, the necessary legislation.

Perhaps just here it would be interesting to note the progress which has been made in the State of Minnesota since 1904. The figures herewith given have no necessary connection with accredited herds, but serve to show that progress by individual testing is slow although nevertheless evident.

Period	No. Animals Tested	No Reactors	Per Cent Reactors
$1904 - 10 \\ 1910 - 17$	122,978 248,586	8,908 9,334	7.8

For ten or twelve years the Health of Animals Branch has conducted the testing of herds for tuberculosis 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 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 herd owners to go in for it.

Compensation is, of course, a most important consideration 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 governments. The two latter may assist to whatever extent they wish, but federal assistance is limited by the Act, on the principle that federal, state and municipal governments and the owner shall each bear 25 per cent. of the loss. When an animal is condemned for slaughter, federal, state and municipal officers jointly give it an 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 appraised 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 Government shall not exceed that paid by the state, county or municipality. The Canadian law prescribed by sections six and seven of the Animal Contagious Disease's Act is more liberal 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, the limits of which are given herewith.

#### APRIL 17, 1919

#### Competition

At the annual Association, held ir of Caledonia, the p that a competition similar to the Fiel so much during to quality of crops the idea met with hands of the Execu ly, and already ha for a competition the flocks. A numb in the competition every flock in the liberal prizes which

The Province is competition. The Counties; 2, Renfre land and Peterbor Sound and Muskol and Grey; 8, Huro 10, Manitoulin Isla Nipissing District; Bay Districts. TI competitors must Breeders' Associati through this Assoc on the score card. and condition. In points will be take flock, dipping, doc crop, type of ram of wool when ship exception of the t item is ten, and f of grade or pure-br the competition an be created, should and in more mode hoof being adopte sociation has draft ity, quality and cle crop, general cond the competition y to see if improven 'to culling of the bre to caring for the flo of wool, and to ma free from burs and right time and non this will tend to Province. We believe the i

We believe the i who are capable to castrating, fleece ty to give breeders, information in floc

Could not a simulation of the state of the s

## Canada's

In a recent is it was announced ing some time in possibilities of exte live-stock industry in the markets of countries. Mr. Ar April 8, and it was following day. T Live-Stock Commi stock industry. T to gloss over any duction methods for live-stock men. H with pleasure the s ment of our export products and at th opportunities will 1 take advantage of reasonable and uni Dominion Governm to watch our live-st we gather that the trade relations wit people of Great Brit ties are still open **t** over, and European over, and European so that, to speak the present favoral the very hest possi-nearness to Europe of paramonat imp canvass of the live to draw computed. to draw accurate c things Controla ca faction on the Brit well represented the the great the necessi-

FOUNDED 1866

wobbly legs and tricky ways. More attention is usually given to the pregnant mare than to the other classes of stock as both she and her colt are considered more valuable. Exercise is essential for the mare but heavy draws, backing, slipping, etc., should be avoided. A brood mare carrying a foal will take her place in the team 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 are indications of the approach of foaling time. Wax forming on the teats is usually a sure indication that the mare will foal in a day or two. Joint ill causes the loss of many colts. One preventive measure is to disinfect the navel as soon as the colt is born and to apply some disinfectant several times daily until the navel dries. A ten per cent, solution of carbolic acid may be used. The strong colt soon takes nourishment and does not give much trouble. The mare should be given two or three weeks rest and she and the colt 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 mare at work it is not considered a good practice as it tires the foal unduly.

The man who is interested in his work delights in seeing the herds and flocks increase, thrive and grow up under his care. A calf, colt, lamb or pig born on the farm is entitled to satisfactory rations and comfortable quarters. The men who neglect the dams and young things at time of parturition and then fail to give the needed attention necessary to develop substance and health in the young stock are heavy losers. Some men seem to have a knack in caring for stock as it always thrives under their care. Those on the farm not born

nnually in succession, without any reactors having been found. The system adopted 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 the owner of a condemned animal. Such a system would hardly be feasible in Canada because control of animal diseases is centralized in the Dominion Health of Animals Branch, Whereas in the United States each state has its State Veterinarian and in some cases a veterinary department has been established. It is probable, therefore, that in Canada all the compensation would have to be paid by the Dominion Government. While tests are made annually or semi-annually, the Federal Government may make a re-test of all or any part of a herd at any time. This seems to be necessary but, of course, frequent tests are by no means desirable. This is very evident from the fact that too frequent testing leads sometimes to partial immunity from the So well known in this danger of immunity that test. unscrupulous breeders not infrequently "plug" animal with tuberculin so that it will gain this immunity and thus pass the test without reacting. This has led to a tendency to cover up the disease in many cases until a mere certificate than an animal has been tested within a short time is not always reliable. This immunity can be secured for as long a period as 60 or 90 days so that retests are necessary to secure absolute accuracy.

The work of testing accredited herds must of course, always be done by Government officers, so that one of the great difficulties of independent testing is thus done away with. Private tests have frequently been shown to be unreliable since cases have been known where unscrupulous veterinarians have filled in a report form with

Kind of Stock	Grades	Pure-bred
Horses.	\$200	\$500
Cattle	80	250
Sheep and Swine	20	75

#### 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, the highest 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 price paid at auction in Canada for a Scotch-bred Shorthorn bull. Davison Bros., of Redwillow, Alta., were the purchasers.

s of the opinion that it rculin tests were made ls Branch and petitions but there is naturally a proposal. There are that are not yet fully ed in any scheme for would experience conrhaps a considerable lited herd system an hat was not accredited e from the accredited nding a re-test at the that if an accredited pure-bred animal for testing the animal rend the loss unless the to these conditions. the animal separately

402 accredited herds e-bred herds had been In the opinion of 1,500 accredited herds xt list is published in ds and 1,858 grade 1,224 pure-bred and early every State in h the Federal policy and the legislatures or are about to pass,

nteresting to note the ne State of Minnesota given have no necesherds, but serve to l testing is slow al-

1	
actors	Per Cent. Reactors
)8 34	7.8 3.7

Health of Animals of herds for tuberllingness to put their ranch so far as the cerned. At present which 35 are privately ernment institutions elve herds out of the owing any reactors so that are now ready s system be put into government control ice, been as complete izes that up to the

ducement to private

nost important confor the control of the United States, is d municipal governto whatever extent is limited by the tate and municipal ch bear 25 per cent. emned for slaughter, s jointly give it an of the animal before pensation is limited or pure-breds with compensation shall

#### APRIL 17, 1919

#### Competition in Flock Management.

At the annual meeting the Ontario Sheep Breeders Association, held in Toronto in February, James Douglas, of Caledonia, the president of the Association, suggested that a competition be started among the sheep breeders similar to the Field Crop Competition which has done so much during the past few years to improve the quality of crops grown in Ontario. At the meeting the idea met with favor and the matter was left in the hands of the Executive. This body of men acted quickly, and already have worked out rules and regulations for a competition and drafted a score card for judging the flocks. A number of flocks have already been entered in the competition but there is no reason why practically every flock in the Province should not compete for the liberal 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, Northumberland and Peterboro; 4, Ontario and Victoria; 5, Parry Sound and Muskoka; 6, Dufferin and Simcoe; 7, Bruce and Grey; 8, Huron and Middlesex; 9, Essex and Kent 10, Manitoulin Island; 11, Temiskaming, Sudbury and Nipissing District; 12, Algoma, Rainy River and Thunder Bay Districts. The conditions of entry are that the competitors must be members of the Ontario Sheep Breeders' Association, and must agree to sell their wool through this Association in order that points for wool on the score card, may be awarded on its preparation and condition. In awarding the prizes, the following points will be taken into consideration; health of the flock, dipping, docking, castrating, winter care, lamb crop, type of ram used, and condition and preparation of wool when shipped to Guelph for sale. With the exception of the type of ram, the possible score for each item is ten, and for the type of ram twenty. Owners of grade or pure-bred, large or small, flocks could enter the competition and the rivalry, which would naturally be created, should tend toward better care of the flock and in more modern methods of handling the golden hoof being adopted. The score card which the Association has drafted puts a premium on type, uniformity, quality and cleanliness of the fleece, fleshing, lamb crop, general conditions, etc. Sheep owners entering the competition will naturally examine their flocks to see if improvement can be made. This will tend 'to culling of the breeding flock, to the use of better rams, to caring for the flock so as to produce the best quality of wool, and to make provision for keeping the fleeces free from burs and dirt. Lambs will be docked at the right time and none of the bucks will be castrated. All this will tend to improve the sheep industry of the

We believe the idea is to secure men to do the scoring who are capable to holding demonstrations in docking, castrating, fleece tying, etc., and who are in a position to give breeders, amateurs in particular, valuable information in flock management.

Could not a similar competition be inaugurated with beef cattle, dairy cattle and swine? It would undoubtedly tend toward improvement in the herds. Many of the young men just starting for themselves would enter such competitions and through them gain information which they could make use of in their breeding and feeding operations. Individual and group classes in the show-ring have brought results. Let us have more flock and herd competitions open to the breeder of grade stock, as well as the breeder of pure-breds.

#### Canada's Live Stock Position Never Better.

In a recent issue of "The Farmer's Advocate" it was announced that H. S. Arkell, Live Stock Com-missioner would shortly return to Consider after spend turn to Canada after ing some time in Great Britain closely studying the possibilities of extending the development of Canada's live-stock industry to meet after-the-war conditions in the markets of Great Britain and other European countries. Mr. Arkell returned to Ottawa on Tuesday, April 8, and it was our pleasure to talk with him on the ollowing day. There is no doubt in the mind of the Live-Stock Commissioner as to the future of our livestock industry. There is no disposition on his part to gloss over any deficiencies in our marketing or production methods for the purpose of enouraging Canadian live-stock men. He is, rather, more inclined to view with pleasure the splendid opportunities for a development of our export trade in live stock and live-stock products and at the same time to recognize that these opportunities will be lost to us unless we immediately take advantage of them. Notwithstanding the unreasonable and unnecessary delay on the part of the Dominion Government in dispatching a man overseas to watch our live-stock interests in the British markets, we gather that there is an evident desire to strengthen trade relations within the Empire, on the part of the people of Great Britain. The majority of these opportun.ties are still open t) Canadians. The war is, we hope over, and European affairs are very greatly demoralized so that, to speak very plainly, Canadians must sieze the present Lavorable circumstances and turn them to the very bust possible account while our advantage of nearness to European markets may still be considered of paramount importance. That is to say, a careful canvass of the live stock situation by those qualified to draw trate conclusions, will show that in some things ( that can compete, with increasing satisfaction on British market, while in others, not so well reproided there in the past, we must proceed with the great care and thoughtfulness consistent with the necess

for quick action. The fact must be driven

THE FARMER'S ADVOCATE.

home to both Government and people that live-stock production must be encouraged along sane lines. There are no two courses for Canada in this regard. Farmers, everywhere, if Mr. Arkell has accurately interpreted live-stock conditions in Europe, must be made ac-quainted with the facts and, further, they must be convinced that the facts are facts. To this end there is a tremendous responsibility to be borne by all, if we are to take advantage of the apparent opportunities.

The horse industry, for instance, is generally considered to be about as reliable a barometer of live-stock conditions as may be found. It is no secret that need be veiled in obscurity, that for some years the horse industry in Canada has not been particularly flourishing. While there have been other causes than a growing populatity of motor vehicles and machinery, it is never theless true that chronic pessimists and mournful Job's comforter's have gone up the sideroads and down again, pushing the horse from his former place and relegating him to the back acres. Fortunately, habitual depression is not a common characteristic of all the people so that there are still a few good horses in Canada and material for breeding more. That they can be sold on a good market seems to be Mr. Arkell's well formed opinion. He is convinced that Canadian horse 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 advantage of this market we do not spoil it by unscrupulous exploitation. Army horses are being sold in considerable numbers it is true, but even the pick of these are not the type required by large transportation companies in the large cities of Great Britain. This particular market will take the pick of our draft horses, and London was never so short of horses as at present, in Mr. Arkell's opinion. Horses of good quality have found and doubtless can still find a market there at prices ranging around £160. We have in Canada a considerable quantity of light farm horses which are of a type that move rather slowly. Poland offers us a market for horses of this type just as soon as finances can be stablized. Her requirements of these horses weighing from 1,100 pounds and up, were stated to the Live-Stock Commissioner, on the best of authority, to to be about 600,000 head. Naturally, therefore, if we organize to meet this demand at the moment it confronts us, we may rid Canada of many light farm horses we do not need.

The beef situation is interesting to say the least. It is equally important and to a certain degree complicated. It is well to acknowledge at the outset, that in the past we have suffered severely because of competition from the Argentine and Australia, as well as 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 800 pounds and exceedingly well bred. These weights yield very heavy carcasses and are in excess of those exported from this country. However, we have plenty of opportunity i we develop it, in spite of the fact that it is doubtful if we can compete in cost of production with Argentina Careful investigation will be needed to ascertain whether the former preference for heavy cuts of beef will continue in Britain, because bacon and beef have been distributed so generally in England, according to Mr. Arkell, as since the signing of the armistice. This is 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 probable 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 determine our most favorable position with regard to the meat trade. There is another consideration with regard to beef that lies with the export of stocker and feeder cattle to Great Britain. Mr. Arkell recognizes that it is highly desirable that we market our cattle well finished and in the shape of chilled meat to the greatest But one must also consider the fact possible extent. he argues, that thousands of live cattle are now being exported from Canada to the United States, which would serve us better if marketed in the same way in England. If the latter were done, we would possess the advantage of an alternative market for Canadian beef, Canadian farmer from undue control by the large pack-This is a matter which is dependent, of course, 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 Not much of a market should be anticipated in Roumania, Serbia, Greece and other Balkan States for dead meat. France, too, does not want to send much money out of the country. Therefore, so far as these nations are concerned, we should count on nothing more than a more or less temporary demand for breeding stock. Those people will eat largely of cereals. So far as bacon is concerned we have never had so favorable an opportunity to establish ourselves. The supply at present coming from Denmark and Holland is nil. American bacon is distinctly out of favor; and at the present time Canadian packers have more orders than they can fill. The Commissioner is fully convinced that there will be a market for all the Canadian bacon we can produce for some time to come at profitable prices. But it must be remembered that this bacon must be "Wiltshire" bacon and all that this

implies in quality and a guaranteed product. Ston sheep, too, can find a ready market, says Mr. Arkell if the embargo can be removed.

751

Our egg business is on a sound footing so far as demand is concerned. The reduction of poultry in Russia, France, The Balkans, Egypt, Holland and Denmar is enormous and there is no egg supply to be antici-

pated from these countries for some time to come. What must we do to meet the situation? We were told that three things seem of immediate importance now: first, the completion of organization in Canada to supply to the British market what we know it demands and further to ascertain facts that require investigation. Second, we need a publicity campaign of some effective sort to put the facts before the Canadian people; and third, we must develop special export organizations to take care of whatever export business in live animals may be open to us, particularly with regard to horses. Needless to say, if we are to fall heir to a trade with Great Britain and the rest of Europe such as has been sketched above, we need in Great Britain a permanent man who will look after our interests. There should have been one there months ago and he is needed more than ever now.

## THE FARM.

#### The Rural School Problem.

EDITOR "THE FARMER'S ADVOCATE":

"What is wrong with the rural school?" is a question you have editorially asked in a recent issue. Much is wrong; but the chief difficulty, at the present time, is that few are really concerned about the question at all, and consequently is is not being properly investigated. The first thing that should be done is to arouse an interest in the whole matter. Get farmers and their wives thinking about it, and a beginning will have been

S. B. McCready, in a recent article, states that a thoro gh and complete diagnosis of rural education would reveal the following condition :----

- A lack of idealism.
- Rural education is inadequate.
- It has been non-progressive.
- It is incomplete.
- It s not nat 'e of the soi'.
- 6
- The t aching force s weak. It lacks the organized support of woman. It is poorly supported financially.

A swe ping indictment surely; and one pretty well justified, as one will see on reading Prof. McCready's article! What is to be done? The first thing as I said, is to beg n to investigate and discuss, and then to oritate. But we must acceler what we set before agitate. But we must see clearly what we want before we begin to agitate. There is no use in mere "knocking." We must generally agree upon a forward policy, and then some headway may be looked for. Meanwhile, I venture to make a few general observations for the purpose of provoking thought and discussion

In the first place, I am disposed to think that a good deal will depend upon agriculture's getting a square deal from an economic point of view. If agriculture becomes sufficiently attractive to draw labor and capital, and if thereby we get a relatively permanent rural population who are not looking elsewhere for their satisfactions, attention will naturally be given to all rural institutions, the school included. But if rural depopulation is not charled in fact if it is not defined. depopulation is not checked, in fact, if it is not reversed, there isn't much hope of mending matters so far as education goes. A decadent industrial class cannot be expected to do much in the way of helping themselves, and the e isn't any use in imposing a "system" upon them that they don't want. But, on the other hand, we must remember that the school in itself is a factor in regenerating rural life, and while its efficiency depends upon general economic conditions, it will have an important influence in shaping those conditions. The relationship between the social life of a community and that community's institutions is extremely close, and neither one can prosper or deteriorate without reacting upon the other. "Action and Reaction are equal and opposite In the second place, I would suggest that the Ontario farmer do not depend upon the Provincial Department of Education for much in the way of leading and guidance. Officialdom inevitably tends towards conservatism and stagnation, and politicians will not risk office in order to strike out along new (and for a time unpopular) lines. We ought to get assistance from the Education Department; but we shall be wise not to lean upon them. Better take the matter into our own hands and canvas the whole situation. The women's organizations in particular have a keen interest in this question, and we can, I think, look to them to keep the matter to the fore

ice between the apcovered in salvage from the carcass of 0, the amount paid e limited to \$33.33 grade, the Federal \$25. In any case Government shall nty or municipality. v sections six and sease's Act is more aid by the Federal es the values which d animal and then nirds these values,

des	Pure-bred
00	\$500
30	250
20	75

ary Sale. 9, T. B. Ralphs, s own breeding for bull of any breed high record was he second highest or a Scotch-bred Redwillow, Alta.,

My own views upon the question of rural education have been fairly definite for a long time, but I have not given expression to them in recent years. Permit me

now to outline these views in brief. In the first place, I think we should have distinctly an *Education for Country Life*. This would imply that life in the country was, in itself, eminently desirable, and offered abundant scope for all kinds of activities. And it would imply that our rural education should be framed with such in mind. It would not imply, of course, that anyone should be educated solely for farm life, or that we should have nothing but technical instruction in agriculture We are all citizens, urban and rural alike, and we are all human. We must, therefore, have a great many interests in common, which would be provided for by having the curricula

for urban and rural schools include much in common But, while this is so, it is quite possible to relate much of 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 about the growing of oats, and his mathematical training in working out the area of a field. The principle here exemplified could be applied in many cases with great profit.

752

In the second place, I think we should not be satisfied until there is within the reach of the country boy 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 provided in the ordinary primary rural school. If this be true 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.

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 community should have a large central building that would serve many purposes, viz.

1. It would provide rooms for graded primary school work.

2. It would provide rooms for graded secondary school work.

3. It would provide a large auditorium for all kinds of public meetings, including church services. It would provide indoor gymnasium and recrea-4

tion facilities. 5. It would provide room for a community library,

a community museum, or anything of like character. And, finally,

6. It would provide accommodation for whatever technical instruction was arranged for in the educational system

This central building should be surrounded by grounds large enough to provide for outdoor games and recreation, for school gardens and simple experimental plots for community picnics, etc. And provision for housing should be made also, in the immediate neighborhood (possibly on the grounds themselves) for most, or all, of those engaged in carrying on the educational work of the community.

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 need not bother about the expense. (2) A good thing earns its own cost. (3) The cost is much less than would appear at first glance. Let me elaborate the last point a little. We have now within the bounds of 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.

1.

Perhaps a township or village hall.

Residences or boarding-houses for teachers and clergymen.

Together with a considerable area of land in scat tered lots

Would it be much more expensive to build, equip and heat the one large structure than to erect, equip or main-tain the numerous small ones? Calculate the amount of roofing, for example, on the 10 or 12 small buildings, and see what amount of accommodation it would cover in a three-story edifice with basement! What of the cost for heating, plumbing, etc.? There is no need to dwell further on this point.

But, you will say: We have the small buildings already here, what are we going to do with them? There it is-the problem of breaking with the past. Well, sometime or other we shall have to make a change, Schools, churches, etc., are being built all the time, When we have to move let us move forward, not backward. What is more tragic than to see good money invested in a building that is out of date and out of harmony with the needs of the time! Should we build for the past or for the future? I am satisfied that if we could get people to see the extraordinary advantages 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 more than half the battle fought. "Where there's a will there's a way.

The Ontario Government professes to be ready to aid in the erection of "community halls." If we are going to build anything new, can we not build something worth while, and not add to the number of small buildings which are used only for a fraction of the time? Don't invest a dollar in anything of this sort until you see further ahead than next year. Brant Co., Ont.

W. C. Good.

FOUNDED 1866

# Crop Rotations for the Farm.

The value of thoughtful planning and head work is becoming more and more recognized of late in all branches of 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 he needs, simply because he didn't think ahead and 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 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 fundamental consideration in any line of farming that depends to any extent upon the growing of crops. The value of live stock on the farm has its very essence in this question of soil fertility, but at the same time the mere fact that live stock is kept in abundance on a farm is poor proof that there is a proper balance of plant food being maintained in the soil. To grow good crops and profitable ones, the soil should also be clean, and this is no small point in profitable farming in these days when

farm, of course, presents a problem all by itself, and sometimes these problems are very peculiar. At the same time there are certain considerations which it is always wise to take into account, and certain methods of procedure which are common to a great many instances. Consequently, it is not at all surprising that part of the work done by our experimental farms should consist of attempts to classify various kinds of cropping systems and determine their relative values by experiment and test over a series of years. A study of crop rotations has long been a part of the work done by the Dominion Experimental Farms, and a representative of "The Farmer's Advocate" recently discussed the question with W. L. Graham, Acting-Assistant Field Husbandman at the Central Experimental Farm, Ottawa. At this farm a system of crop rotation has been followed for at least 15 years and probably for much longer, as the records would probably show if one took the trouble to look them up. The one followed at the present time at Ottawa is a three-year rotation consisting of hoed crops, such as corn, roots and potatoes, followed by wheat, oats or barley seeded down to a mixture of six pounds of alfalfa, ten pounds of red clover, two pounds of alsike and six pounds of timothy. This seeding would be considered much too heavy by a great many farmers, but at the Central Experimental Farm



district we usually find the latter part of June the most suitable. As a matter of fact, the date of the first 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 s-cond cutting will consist principally of red clover and alfalfa, while the latter will constitute practically all of th third cutting in seasons when this is possible. In 1918 we secured only two cuttings, and the yield was some thing over three tons per acre. We had 31 acres of hay in this rotation and 9 acres of pasture. The heed crop section contained 34 acres of Wisconsin No. 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 feeding purposes.

"Manure 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 rotation and, in fact, we use none at all, except in some of the smaller plot experiments.

#### Preparation of the Land.

Corn land is usually spring plowed just before planting time, although if there was time some of this plowing 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 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-acre 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 highly prized for this purpose. In corn land there should be few furrows and these must be well filled and the cutaway has its only disadvantage here; it will not do any filling. It is considered to be such an economical tillage implement, 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 harrow is put on, followed by the roller, after which the land is seeded. Corn is sown at the rate of 20 pounds per acre in rows 42 inches apart. The object in using such a heavy seeding is, of course, to get a good stand, and if the corn comes up too thickly it can easily be thinned out with a slant-toothed harrow which will also help to keep down early weeds and conserve

#### APRIL 17, 19

systems are be farms and stat grain and hay just enough va combinations provision mus amount of lar large to handl able, ''There met with on o in any case w rotation be fol possible to adfirst, but such stantly, and a the farm should suitable for th more economic this reason we

A three-yea Eastern Canac course, advisal rotation, or, tw on the same fa too much land oats may be so tion. Where t to use some cre to allow for af greatest impor systems can w where, we will which 15 acres Summer-fallow and more or les able to follow the remaining rotation until t be devoted to a peas and oats, early so as to p alone may often to peas and o used for hay, as farms are weed hills for a few For very weedy worked out whi moment to peas good advantage clover have been thereby upset plowing, follow grain crops is th parts by weight bushels per acr is when the pea are in the milk or O. A. C. 72 o

Manure sho grain crop. It s or applied on th grain is cut as p able application besides acting as

#### Some R

nient as well a accompanying ta experiment. Ro rotation similar at Ottawa. The of course, be cha tastes. It will b in most of the year rotation, barnyard manur better results th quantities. Rot tion that could Roots and pota ·corn and other gr in the case of fa necessary. Perh would prove sati oats in the four special soiling ro taking the place Rotation number Many other vari few are sufficient successful rotatio

Rotation Rotatio

number year

1

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

weeds are so numerous and labor so expensive and hard to obtain. For other reasons as well it is not only desirable but essential that the crops for the farm should be very carefully and intelligently mought out. A definite cropping system or rotation of crops is of very great advantage, and an increasing number of farmers are beginning to consider such a system indispensable System is a great thing and a valuable factor in nearly everything we do, so that it is not at all surprising that application has been found for it in the taising of farm

Nearly every farmer has in his head some kind of cropping system for his farm, but a great many of these systems are not very carefully thought out. Each

a

heavy seeding is very much in favor. "We recognize, said Mr. Graham, "that such seeding is heavy, but we would recommend that the farmer sow at least 18 pounds per acre if he does not want to sow 24 pounds as we do here. If 18 pounds is used 1 would suggest four pounds of alfalfa, eight pounds of red clover, two pounds of alsike and four pounds of timethy." in which case we always make two cuttings, and in favorable seasons three. The one difficulty we experience with such a mixture is in determining just when the the best quality. It left until the usual time of having the adialfac will become too woody, so that for this

For grain, the corn ground is fall plowed, and seedbed preparation consists of double discing, harrowing, rolling, seeding, and harrowing again after seeding. The latter is considered to be of particular value in hecking the evaporation of moisture from the soil. If the soil is very dry it might be well to roll first and leave for a day or two to draw the moisture to the top. Rolling will also have an influence in raising the temperature of the soil until evaporation starts, when the harrow should be used.

#### Modify to Suit Conditions.

Of course, there are many other rotations that might be followed and, in fact, quite a number of different

#### e area of land in scat

sive to build, equip and to erect, equip or main-Calculate the amount ) or 12 small buildings, odation it would cover sement! What of the There is no need to

e the small buildings aking with the past. nave to make a change, ng built all the time ove forward, not backn to see good money it of date and out of me! Should we build m satisfied that if we aordinary advantages ion as in commerce) desire for such a com-ned, we should have at. "Where there's a

fesses to be ready to ty halls." If we are we not build somethe number of small a fraction of the time? of this sort until you

W. C. GOOD.

part of June the most he date of the first gely by the maturity cutting, when about bloom, is probably as any. The s-cond ed clover and alfalfa, practically all of the is possible. In 1918 the yield was some We had 31 acres of pasture. The hoed of Wisconsin No. 7 cre, while 40 acres of We do not grow ge quantities of oats

and in winter, direct tons per acre. Our very little flooding. course, and govern worth while mentionial fertilizers in this t all, except in some

#### Land.

ed just before plante some of this plowll plowing, we were eavy clay soils, as ich as are found on ly be spring plowed. under fresh manure

#### April 17, 1919

systems are being tested out on the different experimental farms and stations. The same principle of hoed crops, R 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 too amount of land in hoed crops each year would be too large to handle with the amount of labor that is avail-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 con-stantly, and as fast as the difficulties can be overcome the farm should be brought into a scheme of crop rotation the 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

this reason we urge their adoption wherever possible.' A three-year rotation is often found unsuitable in A three-year rotation is often found unsultable in Eastern Canada, and in such a contingency it is, of course, advisable to add another year of hay to the rotation, or, two systems of rotation may be combined on the same farm. If a four-year rotation still leaves too much land for hoed crops, barley, peas, or peas and oats may be sown on a portion of this part of the rota-tion. Where this is done, however, care must be taken to use some crop which can be harvested early encugh to allow for after-harvest cultivation, which is of the greatest 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. Summer-fallowing this 15 acres would be very expensive and more or less uneconomical, so that it may be advisable 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 be devoted to a three-year rotation of barley, roots and peas and oats, the barley and peas and oats coming off early so as to permit of after-harvest cultivation. Peas alone may often be used, but Mr. Graham is very partial to peas and oats, because he says this crop can be used for hay, as a soiling crop, or as a silage crop. Where farms are weedy it is usually advisable to plant corn in hills for a few years to permit of cross cultivation. For very weedy farms a soiling crop rotation has been worked out which is outlined later. Coming back for a moment to peas and oats, this crop can often be used to good advantage in cases where seeding of grain or clover have been killed by the winter, and the rotation thereby upset to a certain extent. Shallow spring plowing, followed by the usual soil preparation for grain crops is the best practice before seeding to equal parts by weight of peas and oats at the rate of three bushels per acre. The most suitable time for cutting is when the peas are forming pods and when the oats are in the milk stage. Golden Vine peas and Banner or O. A. C. 72 oats are good varieties

Manure should never be appied directly to the grain crop. It should always be given to the hoed crop or applied on the new clover seedings as soon after the grain is cut as possible. Fifteen tons per acre is a suit-able application at this time, and will stimulate growth, besides acting as a protection over winter.

#### Some Rotations Under Experiment.

Three, four and five-year rotations are under experiment as well as rotations for special purposes. The accompanying table shows a variety in rotations under experiment. Rotation number one is a three-year rotation similar to the one in use on the main farm at Ottawa. The kinds of grain used and varieties can, of course, be changed to suit local conditions or personal tastes. It will be noticed that oats appear as the grain in most of the rotations, but the reason for this was explained earlier. Rotation number three is a four-

## THE FARMER'S ADVOCATE.

	1	1	1
lotation number	Rotation year	n Crop	Note re-treatment of soi and crop
	1	Corn	Sow Wisconsin No. 7 in rows.
2	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.
	1	Mangels	Mangels, Long Red. Sow in drills, using hand seeder. Apply 150 pounds super- phosphate, 37½ pounds muriate 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 timothy per acre. Apply broadcast 100 pounds nitrate of soda just as grain is coming through ground.
3	3	Hay	Clover hay. Cut two crops if possible. Apply broad- cast 100 pounds nitrate of soda in the early spring.
	4	Нау	Timothy hay. Apply broadcast 100 lbs. nitrate of soda in the early spring. Apply $7\frac{1}{2}$ tons manure per acre in early August, plow shallow, top work and rib up late autumn.
	1	Corn	Apply manure at rate of 15 tons per acre. Plow in spring, turning under clover and manure. Sow in rows 42 inches apart, Wisconsin No. 7.
	2	Oats	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.
4	3	Hay	Clover hay, cut two crops if possible.
	4	Oats	Sow O. A. C. 72 oats. Seed down with 10 pounds red clover, 2 pounds alsike and 5 pounds timothy per acre.
	5	Нау	Clover hay. Cut two crops if possible.
	1		Apply manure at rate of 18 tons per acre. Plow in spring turning under clover and manure. Sow Long- fellow in rows 36 inches apart.
5	2 1	Oats	Sow peas and oats, equal parts by weight, at rate of 4 bushels per acre. Seed down with 10 pounds red clover, 2 pounds alsike, 6 pounds timothy per acre. Cut peas and oats for green feed.
	3		Clover hay. Cut for green feed.
	3	Barley	For grain, seeded down.
3			Hog runs. One-third barley at rate of 3½ bushels per acre, ¾ carly-sown rape on low drills.

#### Agriculture Must Have A Square Deal.

Editor "The Farmer's Advocate":

In the Census of 1901 the rural population of Canada was 64 per cent. of the whole. In 1911 the rural popula-tion was 54 per cent. of the whole. Why?

In one State of the Union south of us 75 per cent. of the inmates of the insane asylums are wives and daughters of farmers. Why?

There are twice as many illiterates in the rural as in the urban population. Why?

There are thousands, yes tens of thousands of abandoned farms scattered all over the North American continent. Why?

The price of farm produce has been forced to hitherto unheard of figures, *only* because of scarcity, *not* because of control by the producer. *Why?* 

I could place a string of 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, any class of laborers think they are not getting a square deal they drop their tools are a square deal they drop their tools are also be a square drop the state of deal they drop their tools, make a spectacular demonstra-

tion, demand better conditions and get them. Farmers for years have been gradually awakening to 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 individuals and wield little or no influence. Instead of individuals and wield little or no influence. 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 sacrifice of abandon it for better-paid positions to 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 line to help out the income. Now, I know what I am talking about, for I have made a pretty careful study of all agricultural conditions in Canada for the past thirty years, and am acquainted with the poorest as well as the best conditions.

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.

One almost suspects the editors of the city dailies of seizing every opportunity to label the farmer as a heartless profiteer, since about all they know about country conditions is the prices they have to pay for their food after they, the prices, have been in many 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. While this, of 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 that the path of the agriculturist is one of roses than any that could be obtained from the general press, and thus the case against the farmer strengthened. Still, the farm journals of our Dominion are doing a world of good, in fact, about all they can to improve the condition of the farmer. Just an instance, however, to show the unfairness of the general newspapers. Last winter a nasty, sourrilous 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 etters V.C. after his signature gave him sufficient which had probably done as nuch to win the war as he had. I wrote an answer to he attack, not in the same abusive manner, but trying to show reasonably that the farmer was not the selfish, cowardly, ignorant, unpatriotic profiteer the V. C. painted him. My answer was never published. I have written articles to newspapers and farm journals showing the necessity of farmers freeing themselves rom the bondage of party and the political machine if hey ever expected to get a square deal from our legisatures, but in many cases these have been rejected, hough other articles of an "all's-well" nature have enerally found acceptance. No, the farmer is not getting a "square deal" rom the general reading public. He is without the ympathy of the consumer because he is constantly nisrepresented in the press; generally through ignorance f-his real position, sometimes through misdirected zeal nd optimism of the organs of his profession. Even when his abuses are aired in these media they only irculate among his own class, and do little to lessen the urses of his enemies. 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 t the capital recently decided on an eight-hour day or labor in the province, and it will not be long before t will fall to six hours. Are they to be blamed? Are hey to be considered as commodities to increase the realth of the nation, or as men and women with the ight of some hours out of the twenty-four for selfmprovement and culture as well as they whom they 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 an endeavor to make both ends meet at

planting time, **tends** I somewhat, d**ue to** Two-furrow plows plows to open and most economical. e farm but for the ng, a soil packer is avy land roller will en a double disc is y highly prized for ould be few furrows he cutaway has its o any filling. It is l tillage implement, or an ordinary disc o everyone. After drag or smoothing roller, after which at the rate of 20 apart. The object ourse, to get a good hickly it can easily harrow which will eds and conserve

plowed, and seedliscing, harrowing, ain after seeding. articular value in ire from the soil. ell to roll first and oisture to the top. starts, when the

tions. tations that might umber of different

explained earlier. Rotation year rotation, in which c barnyard manure are both u better results than where eit quantities. Rotation numbe tion that could be applied Roots and potatoes could e corn and other grains some of f n the case of fall wheat so necessary. Perhaps in that would prove satisfactory, fall bats in the fourth rotation y special soiling rotation referre taking the place of grain in Rotation number six is a spec Many other variations are ur ew are sufficient, perhaps, to successful rotation may be pla	ommercial fertilizers and sed. This appears to give her is used alone in larger r two is the type of rota- to a great many farms. asily replace some of the the oats if desired, although me modification would be case rotation number four wheat taking the place of year. Number five is the ed to above, peas and oats this three-year rotation. ciai rotation for hog lands. der experiment, but these
Rotation Rotation	Note retreatment of soil

tation mber	Rotation year	Crop	Note re-treatment of soil and crop.	
	1	Corn	Apply manure at the rate of 18 tons per acre. Plow in spring, turning un- der clover and manure. Sow Wisconsin No. 7 in rows 42 inches apart.	6
1	2	Oats	Sow O. A. C. 72 oats. Seed down with 10 pounds red clover, 2 pound alsike, 6 pounds alfalfa and 6 pounds	Go in mo

Hay Clover hay. Cut two crops

timothy per acre.

Good agricultural implements are a prime necessity in modern farming. We are beyond the age of scraping the top of the earth and svinging the hoe.We are in the age of the tractor, the disk plow, the riding cultivator, the electric light plant and the gasoline engine on the farm

the end of the year. No time afterward to gain more education because of the incessant grind necessary to keep down debt. Millions of farmers and farmer's wives the world over working 12, 14 and even 16 hours a day the greater part of their lives, too tired even if they had time at night to read the whole of the newspaper.

754

I do not mean the 10 per cent. who, by one means or another, have reached "easy street," but the 90 per cent. who are scarcely ever heard of outside of their 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 educational 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 leaving the country for the city do so because of their desire for better school and church privileges.

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 generally 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 kept at 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

they want to meet, and the effort necessary to get ready, cover this distance, often over bad country roads and not always in pleasant weather, is generally, especially after a long day's work, too great to be undertaken; and when the average farmer does go into public life, the opinion that he belongs to an uncultured, gnorant class and fit only to produce food leads to his being ignored, until he draws within himself and stays home

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* farmer would have to work *sixteen* hours. This is not guess work. I can prove it from figures taken from the report of the Country Life Commission, that is if 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 no control over the price of his labor, but is merely a plaything on the sea of commercial and political life.

He is not getting a square deal commercially. A market controlled by interests inimical or indifferent 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 between him and the manufacturer.

He is not getting a square deal politically. A 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. They could be cajoled, hoodwinked and put off easier than any other class of voter. They were always the last to be helped by the Government, and the first to be depended on to vote the straight party ticket in time of election

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-George recently nd told him of a few decisions arrived at few demands. Alt! ough he felt that the issue might mean civil war he fel, too, that the demands of these few men would have to be approximately met. Why? Because these men had a solid wall of a million workers back of them. There are a of of tuppence ha'penny farmers' organizations scattered over Canada of, perhaps, slight benefit from an educational point of view, but almost absolutely worthless when it comes to a question of influence in making legislation. I have served several years on the legislative committee of our Provincial Farmers' Association, and have, time and again, brought before the legi-lature resolutions looking to improved laws of undoubted benefit to the agricultural industry, only to have them overented by political trickery and opposing stronger interest .

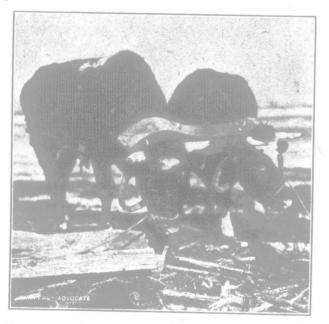
#### CANADA'S YOUNG FARMERS AND FUTURE LEADERS.

#### How Can We Keep Our Young People on the Farm?

EDITOR "THE FARMER'S ADVOCATE"

This surely is an age of rapid changes, so rapid that one can scarcely keep himself adjusted to them. Years ago our parents made their home in the heart of the forest, reared large families, who in turn made their homes likewise not far from the parental roof. But until their nest-building began they never thought 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. One child had a position here, another a profession some-where else. Then came the worst war of all ages, and with the flower of this generation's manhood the world has paid the price.

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, as they have been doing? Surely we can do something to make our country home and community life sufficiently attractive that they cannot leave without sorrow at least. We must take time by the forelock. Children love to be busy, and their activities may as easily be guided along useful channels as otherwise. Very young Very young children feel the importance of responsibility and as soon as they are old enough to be trusted with small tasks, give them something of their very own—a lamb, pig, hen—anything that will hold them responsible, the proceeds of which may be banked and used for their personal expenditures. It is surprising how observant they become in caring for stock. They also should learn to live within their means.



Steer-breaking was, at one time, a pleasant and profitable pastime.

Outside of the home life, the school is the next important factor. Late years the study of agriculture so far is in its primeval stage, the over-crowded curriculum not allowing for a syste experiments, that take place at school, must be of community interest, as the study of the soil, various fertilizers, crops most suited to that district, and the introduction of new varieties tested in school plots. Pupils who have been successfully interested will make the most of acreage, time and material. So far, farm people have been working against their own interests, in this respect. Many have jeeringly remarked that they are sending their children to school to learn the essentials-reading, writing and arithmetic, -and these modern frills that are being wedged in, that should teach them to get more out of life, are looked upon as tomfoolery So much for the early home and school life. In a great many farm houses and barns you still find as many conveniences as they had a hundred years ago. A case where the "old folk" haven't advanced with the times. Most of the modern conveniences are time and labor-savers and certainly add to the comfort of to be without them.

You 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 are naturally social beings. It is our pleasant, social intercourse with each other that lifts us above sordid things and makes us broader and more sympathetic. The young, however, 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 lead to objectionable associations.

It is the long winter evenings that we must make attractive, so that our developing manhood and womanhood will find country life really worth while. In our district a literary society has proved most satisfactory. It adhered rigidly to the constitution. A debate was put on each week besides other numbers, and some subjects kept one busy a whole week gathering information and data.

Outside amusements, although important, are by no means a sole requirement in keeping our young people happy. Blessed, indeed is the man or woman who looks back on early life in a home where good books, inspiring conversation, music, good pictures and good fellowship abounded. Elgin Co., Ont.

FARMER'S WIFE.

FOUNDED 1866

#### Some Reasons Why the Boys Leave the Farm.

#### Editor "The Farmer's Advocate":

We hear many reasons given for the boys leaving the farm. Sometimes the Government is expected to help stem the tide of rural depopulation, but in the writer's opinion each farmer must work out his own salvation in keeping his sons on the farm. Farm work must be made attractive in some way or the boys will not stay. In looking over the country, we see the boys brought up under good and profitable farming conditions, raising proper crops and good stock staying 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, but because 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 themselves 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 neighbors. Again, other boys become dissatisfied be-cause of lack of labor-saying conveniences, both on the farm and in the home. Their chores are twice as hard to do as their neighbor's, and they see their mother working under endless dificulties that a small invest-ment would remove. Still other boys are trained from childhood by their mother to be discrifted with the childhoood by their mother to be dissatisfied with the farm. They are told about the hard work and disagreeable conditions on the farm and of course, conclude that the sun always shines-in the city

The writer tried a plan with a little brother that might have worked out all right had it not been for the war. As it was he answered his country's call and is among those who are not coming back. At about 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 bought a little pig. At seven months old he sold the 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 stock and his remuneration increases as he becomes more useful. Grey Co., Ont. WM. MATHER.

#### APRIL 17, 19

#### AUTON ANI

To remove or axe head lay minutes to an oven, and the b

If the car o the springs he a lubricant ove paraffin and fla melting a few of condition the stirred.

> If there wa window pane it brown paper a can filled with whatever conta of the water. P nitely in this wa

In making terminal the st around the bind the screw is tig with the wire tendency for it When the wire tends to unwra

No one care but not to make be given this is to be used in the axle, which to one of the fro comes on the o car doing the fastened to som

Prior to the

tractor there wratings. While were all under It seems that over-rated, and for actual work get the tractors power lost in being omitted highly desirable on a rational, u be accurate ar not different at would profit by practice of over the fact in case companies wou policy that co for many of ou mainder of this We will sup

market for a carefully; he ha of various trac one is the righ garding four m

No, the farmers have no segunization to look after their legislative interests previously or federally, and until they have the farmer well occupy the meanest place in the national concerns.

In a subsequent article 1 will meterion some of the steps necessary to place the termine where he should be. Annapolis Co., N. S.

Improper hitching of tractor to made and frequently causes trouble for which the tractor imposite tractors the blame. It has been found by dynamometer a hitch causing unnecessary side drive will increase the load as much as one-third. This have is situal consumption and makes the tractor appear to have a higher operating cost than it really greatest disadvantage, however, is in quality of work done. A poor hitch causes ragged furrows, poor pulverization and failure to turn over the furrow slice properly. Sometimes correcting the hitch will get rid of difficulty in getting the plow to scour.

more work to keep well-bred stock than serubs, and it is more satisfaction to work among them or to show

5 ...... until bed-time, six days out of the week, with a lot of necessary chores on the blessed seventh? No

#### A Partnership on the Farm.

EDITOR "THE FARMER'S ADVOCATE":

In the issue of March 27 you ask a question re 'Father and Son in Partnership.' I can't say that know of a plan that has worked satisfactorily, but I cannot see the difference in father and son being partners than any other two men, unless it would be in their ages, for an old and a young man's ideas of working and living are very often quite different, causing disagreement and, therefore, making partnership an unsatisfactory 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 son pay the father a certain sum each year until he has his half of stock and implements paid for? I think I am safe in saying that in the majority of cases all the son asks of the father is a "chance," but the father very often misinterprets the son and thinks he is asking for the farm.

Welland Co., Ont.

Young farmers can lend considerable strength to the young farmers' movement by writing letters to this department telling what their association is doing and offering suggestions to others. Do not allow your organization to lapse during the summer. Maintain interest by engaging in some community work, excursions, games Rating

A 10-18 B 10-18 C 10-20 D 10-20

The first tw (meaning 10 ho belt), the last t ever, all four a at the drawban examine each, a cases see what drawbar horseplied by the d the product of number of foot power.) Stati

Take Tractor A

Dra

schief still for idle the hours must be We are naturally social intercourse sordid things and netic. The young, v do not find it at re the pool room, es these may not ad to objectionable

at we must make nhood and womanrth while. In our most satisfactory. on. A debate was umbers, and some gathering informa-

mportant, are by eeping our young he man or woman home where good good pictures and

'ARMER'S WIFE.

#### **Boys Leave**

the boys leaving ent is expected to ation, but in the vork out his own arm. Farm work y or the boys will ntry, we see the profitable farming ood stock staying table farms, with to the city. This oes not leave the rk and good pay, ad no pay.

leaving the farm nything for themocketbook. This rm growing good something wrong nt if a young man can get from his e dissatisfied bences, both on the are twice as hard see their mother t a small investare trained from satisfied with the ork and disagreerse, conclude that

ttle brother that not been for the ntry's call and is At about eleven layed an egg of a that was to get a o pay for it he old he sold the

#### April 17, 1919

#### AUTOMOBILES, FARM MOTORS AND FARM MACHINERY.

To remove the broken handle end from a hatchet or axe head lay the hatchet or axe in the oven for fifteen minutes to an hour, depending upon the heat of the oven, and the broken handle will almost drop out.

If the car owner should have occasion to dismantle the springs he should take the opportunity to spread a lubricant over the leaves. A good one is a mixture of parafin and flake graphite. The wax may be had by melting a few ordinary candles and when in the molten condition the graphite is thrown in and the whole stirred.

If there was some putty left after putting in that window pane it can be 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 container is used to prevent the evaporation of the water. Putty can be kept soft and pliable indefinitely in this way, and will be ready for use when needed.

In making an ordinary connection to a battery terminal the stripped end of the wire should be wound around the binding post in a clockwise direction. When the screw 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 around it 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 is to be used in the towing, many drivers fasten it to 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 the introduction of the gasoline or kerosene tractor there was not much confusion about tractor ratings. While steam engines were under-rated, they were all under-rated in about the same proportion. It seems that gas tractors have been, in many cases, over-rated, and cannot develop their advertised capacity for actual work on the belt or at the drawbar. In some instances it is due to the fact that tractor companies get the tractors from a plant making a specialty of this particular and vital part. Due consideration of the power lost in transmission to the belt or the drawbar being omitted. From the farmer's standpoint it is highly desirable that tractor ratings should be placed on a rational, uniform and national basis, which would be accurate and acceptable from coast to coast, and not different at every median line. The tractor interests would profit by conservative and uniform ratings. The practice of over-rating is short-sighted. We emphasize the fact in case there may be doubters, that the reliable companies would be glad to fall in line and adopt any policy that could be mutually arranged. A solution for many of our present troubles is offered in the re-

We will suppose that a practical farmer is in the market for a tractor. He has studied the problem carefully; he has looked through a list of specifications of various tractors in a vain endeavor to decide which one is the right machine for him. We present below several of the specifications he may have selected regarding four makes that may appeal most strongly to him

and it is rated as 10 drawbar horse-power. We have taken the advertised specifications. Something is

THE FARMER'S ADVOCATE

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 11 1-5; 12; and 14 2-5 drawbar horsepower. In every instance they exceed their rating and, therefore, may be reasonably expected to give satisfaction.

If that does not mean chaos and confusion I would like to know what it does mean to the average man. You say: "Well, what are you going to do about it?" We would respectfully suggest that since tractors have been and are being sold in large number in this country, that some uniform method of rating be adopted in the interests of the reliable manufacturer as well as the interests of the farmer.

You may wonder why we include the manufacturer. They are willing and anxious to co-operate, and one need go no further than the record attendances at their instruction schools to realize this is true. Every province should provide equipment for testing tractors 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 that every type and every make of tractor be tested, and if the results of the test showed that it came up 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 John Jones Company would notify the testing bureau 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 tractor would then be submitted for trial and approved or rejected as the case might be. In a test of this kind tractor A in our list would receive no stamp of approval and would be placed in a class designating it as 6 D.B. H.P., and why not? The other three machines, B C, D, would pass and go in the market as approved, 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 rating for Canada or even North America. A company making an engine that could not come up to the standard would have two roads open to it: the first to improve their machine, and second "to shuffle off this mortal 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 to the mutual benefit of all. Something should be

How many plows will the engine pull? You might just as well ask how long 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 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 required by the plows. County agents could take the question into account in their Rural Survey work—it can be done. Then we would know when a man writes in from a certain district that since the average drawbar 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 reasonable hope of success. There would be no hit or miss. There certainly would be fewer misses than we have under the present system.

The remarks of a recent writer on the tractor situation the United States are 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. Moreover, one man takes a certain make of machine and does well. He is pleased with his results. Another 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 to a combination of man and tractor. One may take his choice, but the evidence piles up that some men never fit into a machine combination. In conclusion, let us say that the scrub tractor should follow the scrub bull or the scrub stallion out of the country. They have been tested and turned down by 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 a position to render expert and repair services, and whose

tractors have proved their ability to do what is claimed for them. We look forward to such a step being taken as we have outlined, and feel sure that it would be a long step in the right direction. It would be the means of avoiding many disputes, and there would be more 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 Saskatchewan.

## THE DAIRY.

#### Dairy School Examination Results at O. A. C.

The attendance at the various courses in dairying during the past winter at the O. A. C., Guelph, has been good—nearly up to pre-war numbers. The number registered was: 43 in Factory Courses; 7, Farm Dairy; 30, Cow-testing; 14, Ice-cream and Soft Cheese Making —a total of 94.

The following is the proficiency list of the Factory Course: 1, W. Colwell; 2, H. Smallfield; 3, A. P. Clark; 4, L. Luther; 5, H. Whillans; 6, E. Culham; 7, 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<sup>\*</sup> 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 the 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 of Official Tests during the past winter, even though a staff of about forty men has been employed. The class which has just completed the Course will relieve the strain for the present.

strain for the present. The following is the proficiency list for Cow-testers: 1, Wm. Miles; 2, Fred Schell; 3, A. J. Graham; 4, F. R Shore; 5, W. B. Silcox; 6, M. Davis; 7, E. L. Tuttle; 8, S. E. Keillor; 8, J. E. Shaver; 10, L. Garratt; 10, A. Minto; 12, W. L. Thompson; 13, R. J. Bain; 14, R. Barrigar; 14, H. G. Cossett; 14, L. Lossing; 17, G. A. Ficht; 17, W. Wardell; 19, A. Barratt; 20, S. R. Ficht; 21, M. Austin; 22, M. Disher; 22, Jas. Wood; 24, W. Lennox; 25, A. V. Hunter; 26, B. Cox; 27, J. Snyder; 28, S. Rivers.

Through the kindness of friends of the Dairy School cash prizes to the value of \$125 were offered to competitors. The winners were:

petitors. The winners were: JUDGING AYRSHIRE CATTLE: 1, H. Orr, Ramsyville; 2, R. Waugh, Moosejaw, Sask.; 3. A. Todd, Brantford. JUDGING HOLSTEINS: 1, H. Whillans, Hurdman's Bridge; 2, F. E. Gray, Laurel; 3, Geo. Whiteside, Guelph. JUDGING JERSEYS: 1, R, Cunningham, Tara; 2, H. Smallfield, Renfrew; 3, D. Richardson, Hartshorn, Alta. MAKING CHEDDAR CHEESE: 1, H. Dalley, Simcoe; 2, A. P. Clark, Tregaria, Sask. MAKING BUTTER: 1, W. Colwell, Parkhill; 2, D. Beattie, Seaforth. PASTEURIZING AND BOTTLING MILK: Miss H. Summers, Winchester, and A. Todd, Brantford, equal; 2, E. Culham, Sheffield. PROFICIENCY: 1, W. Colwell; 2, H. Smallfield; 3, A. P. Clark.

755

t a colt. In this Il the different increases as he

I. MATHER.

#### Farm.

k a question re can't say that I sfactorily, but I on being partners ould be in their deas of working ent, causing dispartnership an

become partners, and implements, fits equally, and sum each year ments paid for? the majority of a "chance," but son and thinks

#### D. H. H.

ole strength to g letters to this on is doing and low your organaintain interest coursions, games

Rating	Recom-	Pounds Pull at Drawbar	Speed Miles per Hour	Drawbar HP. they should Develop from Fig- ures Given	
A 10-18	2	900	$2\frac{3}{4}$	$\begin{array}{c} 6 & 2 - 5 \\ 11 & 1 - 5 \\ 12 \\ 14 & 2 - 15 \end{array}$	
B 10-18	2	1,800	$2\frac{1}{3}$		
C 10-20	3	1,800	$2\frac{1}{2}$		
D 10-20	3	2,650	2		

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 drawbar horse-power equals the pull in pounds multiplied by the distance travelled in feet per minute, and the product of these two factors divided by 33,000 (the number of foot pounds of work per minute in one horse-power.) Stating it briefly we have:

		Pul	l in poun	dsXDistance in feet per minute
Drav Fake Tractor A in the list a	vbar Horse- and work it 900	power =	33	3,000 (one horse-power)
Drawbar Horse-	power =	1		3,000 (one horse-power)
=	900X242 33,000	$=\frac{66}{10}$	or	8 3/5 Drawbar Horse-power.

#### Griffith Sale of Holsteins.

Considering there were very few officially tested cows selling in J. E. Griffiths dispersion sale of Holsteins at Weston, Ontario, on April 3, the receipts obtained were pleasing. Of the 23 head catalogued almost a dozen were still under breeding age and this of course, was instrumental in keeping the general average down. Thirteen lots, however, in the sale sold above three figures and made an average of \$191. The herd bull Emery Jewel Hengerveld, fetched \$200. There were a number of choice grade Holsteins sold directly after the pure-breds and these sold exceptionally well. The lots selling for \$100 and over were as follows The names of the buyers in each case are also given:

× 117 11 × 37 m

Emery Jewel Hengerveld, L. McEwen, Weston	200.00	
Korndyke Paul Schuiling, Jno. McHucheon, Klein	-	
burg		
Olive Schuiling Posch, M. A. Ramsay, Sharon	240.00	
Snowdrop Hengerveld Schuiling, C. Usher,		
Edgeley	142.50	
Princess of Weston, H. Banard, Downsview	182.50	
Nora Calamity De Kol, J. J. Fox, Guelph	200.00	
Baroness Suirk, E. H. Anderson, Weston	200.00	
Daisy Calamity Suirk, E. H. Anderson	270.00	
Beauty Princess Hengerveld, F. W. Pearson,		
Weston	167.50	
Abbekerk Pietertje Clothilde, M. A. Ramsay	200.00	
Nellie De Kol Suirk, J. J. Fox	192.50	
Polly De Kol Suirk, J. J. Fox.	215.00	
Violet Hengerveld Sylvia, F. A. Pearson	140.00	

225

125

120

140

285

170

110

140

120

225

110

145

165

115

155

120

#### **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 there were upwards of twenty head that should never have been accepted by the Club. but the remaining numbers were all good material, well 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. Purtelle, of Bloomfield, made the highest average of the day. The five head averaged \$618.90. An elevenmonths-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. Phillips, G. D. Wright, E. T. Fritz, S. F. Parks, A. 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 by J. A. Caskey, with N. Montgomery as auctioneer. Following is a list of the animals selling for \$100 and over, together with the names and addresses of their purchasers:

#### Females.

315

180

180

210

110

150

 $225 \\ 125$ 

255

270

200

115

425

170

Clara Pontiac Keyes, Herman Pyne, Elgin. \$ 150 Regina Pointac Keyes, Herman Pyne, Elgin..... Regina De Kol Victoria, Percy Mott, Belleville... Lady Hermes Eclipse, W. J. Hubbs, Rednersville... Miss Laura De Kol, Jas. W. Campbell, Holloway.. Princess Trimonia Belle, M. Shea, Stirling...... Patti Bell De Kol, R. M. Holtby, Port Perry..... Isabell May Burke, Jas. Harry, Trenton.... Queen Isabelle De Kol, J. T. O'Connell, Peter-boro 170

May Darkness Echo, S. Elliott, Kingston. Keyes Segis Walker Pietertje 3rd, A. W. Churchill,

Gananoqu Flora Bell De Kol Daisy, S. N. Fluke, Foxboro. Floral Hill Jennie Keyes, Peter Van Allen, Fox-

Dolly Hengerveld De Kol, S. Elliott.... Flossie Korndyke Hengerveld, J. T. O'Connell.... Triumph Mercena Hengerveld, Peter Van Allen... Lady May Pontiac, Geo. Johnston, Napanee.. Pontiac Lady Sylvia, S. J. Martin, Picton..... Una Pietertje Hermes, S. J. Martin.... Gooda Plus Wayne, H. B. Pyne. Echo De Kol's Twin, J. T. O'Connell. Laura Echo Keyes, J. Harry..... Nellie Posch Pietertje, B. L. Redner, Redner-

De Kol Houwtje Ormsby, Geo. W. Kingsley. March Ormsby De Kol, W. E. McKillican, Maxville

Pontiac Ormsby Maid, B. Perry, Wooler Katie Segis Houwtje, C. Hall, Latta.... Francy Spofford Ormsby, W. E. Wood, Bloom-

O. U. Johanna Pietertje, J. T. O'Connell Burke Bos De Kol, E. Purtelle, Bloomfield Geraldine Buster, H. Fitzgerald, Belleville Katie Ormsby, C. R. W. Proctor, Brighton. Flossie Burke De Kol, E. Miller, Picton May Segis Korndyke, J. W. Harrington, Brighton. Echo Pauline Sylvia 2nd, J. L. Hennessy, Cod-

Males Brighton King Alcartra, R. M. Holtby..... Admiral Beets Posch, A. Moor, Plainfield Glenhurst King Keyes, H. Pyne.... Glenhurst Walker Keyes, M. Shea Count Aaggie of Floral, G. H. Wilmont, Kingston. Bull, E. J. Phillips, Belleville. Bull, Peter Goldsmith, Belleville Lee De Kol Alcartra, C. Tucker, Harold. Bull, H. B. Pyne. Count Johanna Paul, J. Rainie, Harold

Baron Segis Korndyke, F. S. Parrott, Belleville. Peter De Kol Korndyke, A. W. Anderson, Belleville

Sir Echo Alcartra, W. W. Dracup, Harold. 1,060 Segis Alcartra Pietertje, H. Chambers, Napanee... King Korndyke Pontiac, W. A. Hubbs, Bloomfield. Count Hengerveld Pontiac, H. Garrison, Hollo-

Sir Keyes Clyde, W. E. Hartlett, Foxboro. Pontiac Echo Lad, D. Scott, Belleville..... Content Paul Calamity, Wm. Clark, Belleville ligger Vale, W. H. Hodgen, Latta. Paul Vale, D. Anderson, Frankford.

#### The Menie District Ayrshire Sale.

On Thursday, April 3, the Menie District Ayrshire Breeders' Club held 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 no means a credit to the breed. The animals were very poorly fitted and consequently did not bring very high prices. Had the breeders been more liberal with the feed and put their cattle in condition, the average price at which the animals sold would have been greatly increased. As it was, some 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 catalogue showed that the animals were well bred, such breeding as Hillside, Peter Pan, Springbank Monarch, Springhill Cashier, etc., being represented. Hunter Bros., of Grimsby, purchased many of the good milking The sale totalled \$4,335. The top-priced animal COWS. was Oakland Belleflower, an eight-year-old cow, which went to the \$315 bid of Hunter Bros. This cow is about due to freshen to Springbank Monarch. unior two-year-old she qualified in the R.O.P. with 9,000 lbs. milk. Following is a list of the animals selling for \$100 and over, together with the names and addresses of their purchasers:

Hover-a-Blink, W. L. Tummon, Crookston \$150
Ookland Lung Wm D. I. D. Ferris, Campbellford
Oakland Juno Wm. Paul, Peterboro
reter, Louis Locke, Campbellford 190
Long 2nd W E Mason Dout H
Lena 2nd, W. E. Mason, Port Hope
Daisy and, Hunter Bros. 200
Vakland Nate, nunter Bros
Potter's White Rose 2nd, A. L. Riendeau, Campbell-
ford
ford
Sarah 2nd, Geo, McComb, Campbellford
rightand delle, righter Bros
Vakland Bellenower, Hunter Bros
Humeshaugh Snowdrop 2nd, A. E. McCook,
lamphelltord
Humeshaugh Snowball 3rd, Dr. A. J. Fyle, Amelias-
Tunicshaugh Showban ord, Dr. A. J. Fyle, Amelias-
burg
Woodland Ruby, W. Stewart Campbellford
Potter's White Mary, A. L. Riendeau 210
210

associations might advisedly take this matter up in order that justice be done to their members. Possibly the greatest complaint is of milk being low in fat. The quality is usually judged by the depth of cream on the top of the bottle. However, the visible cream is not a true indication of quality, as there will be less on a bottle of new milk than on milk twelve hours old, The Babcock test and a lactometer reading are reliable means of ascertaining the quality of milk and cream and of finding out whether or not the milk has been watered, The two should be used together. Because the milk tests low is no indication that water has 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 individuality and breed of the herd influences the test. A cow giving a large flow of milk is not as likely to test as high as one 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 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, 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 epidemics have in times past resulted from contaminated milk. The present rules governing the milk supply of the city are fairly strict and are adhered to by the dairymen. Every precaution is taken to supply the customers with milk of good quality, both from the standpoint of cleanliness and of butter-fat content. It is more difficult to keep the 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 the lactic fluid from the stable as soon as drawn and cooling it in 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 almost if not quite free from dirt, and there would be an absence of any taint.

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 and cheese, and the price of the same, while high, is not out of proportion to the price of feed, labor and dairy 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 today. The raw material in the form of feed which the cow uses in the manufacture of milk comes high, and must also be reckoned with. The farmer who must in most cases fill the threefold task of being proprietor, manager and laborer, is entitled to as much remuneration as the man who runs a business in town which in many cases does not represent the outlay in capital which 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 the salary or the dividend which comes to the man in commercial business. Even at sixty-five cents a pound for butter, thirty cents a pound for cheese, and fifteen cents a quart for milk, these products are the cheapest foods which find their way to the city man's table.

#### The Willowbanks Sale of Holsteins.

Although the country surrounding the town of Dunnville is not particularly noted as a dairy district, indications point to the fact that the Black and Whites 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 remunerative prices. Bidding was brisk throughout the entire sale, and the animals were in excellent condition. The twenty-six animals sold, including a number of young calves and aged cows, realized \$4,750.50. The highest price was \$490, paid by Logan Bros., of Dunnville, for the young cow, Pet Lady of Willowbanks, a cow of outstanding quality and with a good record. She was closely followed by Lakeview Almeda Segis, an extremely typey junior four-year-old. She went to the bid of \$450 from John Moote, of Canboro. Dorothy Butter Girl, another young cow, brought \$400. The following is a list of the animals selling for \$100 and over, together with the names and addresses of their purchasers:

#### APRIL 17, 19.

FOUNDED 1866

Cr

#### EDITOR "THE F

A recent qu bound poultry his inability to think that perh trouble in quest readers.

The occurrent due to my lack and possibilitie never happened that the acciden it.

As my hens a very good pri in my care and them something meal of the day or what authori is in need of sal I do remember t ly salted an extr in its entirety of as I watched t already well-fed I rather comme so large that the not getting a fu large mashes be fowl would app leave the rest salt made them results, already revealed every and sick enoug deed, two of the help. It was a c

The situation of no deliberat ever. I simply rush relief. I q a needle and good sharp raz disinfecting solu operated on all perate cases, th all the ones who far gone as to b comatose To the next lot not quite so t ministered a ta ful of castor applied massag crop. To the that could drinl gave water with salts and a aged the crop. covered all but i

The five tl included the were past help beginning and other three two the lot which we with salts and v one of the lot tre oil. To all appea liquid tended to All those th on a soft diet to shape of gentia very simple and e bird or else hang Make the incisi itself, just suffic finger. Be sure that it will not a portion of th pressure and ma your finger and greatest precaut liquid or solid, crop. The final openings that yo the outer skin; ea Put about three bird protection gently stimulatin Carleton Co.,

756

rington 500 Hengerveld Flake De Kol, W. E. McKillican Lucy De Kol Faforit, J. N. Curriston, Brantford Rose Echo Segis, S. Ross, Brighton Daisy Segis Alcartra, W. F. Osborne, Rossmore 100 500 410Sylvia Alcartra Posch, G. H. Wilmont, Kingston.. Countess Inka Walker, P. S. Van Vlack, Napanee 925 200 De Kol Girl Pietertje, M. R. Anderson, Belleville. Countess Lena De Kol, J. T. O'Connell. Ada Walker Pietertje, Ed. Miller. 200 300 Korndyke Lazy Girl, H. Smith, Frankford. Pontiac Beauty Segis, J. Vipond, Cumming's Bridge.

Daisy Pietertje Korndyke 2ud, Geo. Kingston, Stirling.

Bessie Pietertje Korndyke, Geo. Kingston Beauty De Kol Pietertje, Geo. Burnside, Madoe. Ivy De Kol Hengerveld, Geo. Kingston Mollie Pietertje Hengerveld, D. B. Tracev,

Cobourg Rose Beets, H. Thompson, Napance Nellie Beets Posch, Peter Van Allen Helena Butter Girl Keyes, A. W. Kingston,

Stirling
Helena May Butter Girl, J. Vipond & Son
Fremona 2nd, A. W. Churchill
Flora De Kol Iosco, S. N. Fluke
Gypsie De Kol Queen, E. Osborne
Pontiac Echo Queen, F. R. Mallory, Frankford
Pontiac Mol Echo, F. R. Mallory
Lulu Posch Calamity, Clarence Vermilyea,
Belleville

## 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 be contended with in producing and delivering to the city man's door a quart of milk. It is easy to find fault if the milk looks a little blue, or is somewhat thinner than the consumer would like. Delivering tainted milk, or milk with a little sediment in the bottom of the bottle, are 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 made, the facts and circumstances should be investigated. Provincial and city authorities have enacted laws governing the quality of the dairy products offered to the public. However, in passing judgment on individual offenders of the law justice has not always been tempered with mercy, especially in cases of a dairyman's first offence with milk not quite up to the standard.

In some cities it is customary to convict a dairyman on the result of testing one sample of milk. There is a possibility of error with the most careful testing; consequently, in justice to the milk producer three samples should be taken and one tested by the city, the other by the owner, and the third by a disinterested party. Then, too, sampling one milking is not altogether fair, as circumstances over which the producer has no control may arise to lower the test of a certain milking. A composite sample would give a much fairer idea of the quality of milk being delivered. Milker producers'

Elmdale Bess Princess, Lakeview Farm, Bronte \$195 Lyndenwood Faforit Belle, John Moote, Canboro... Dora Butter Girl, Haist & Ecker, Jordan Sta 250 400 Pet Lady of Willowbanks, Logan Bros., Dunnville 490 akeview Almeda Segis, John Moote... 450 Canary Pauline Queen, Logan Bros. Josie Bewunde Posch, P. S. Moote, Attercliffe 230 Lyndenwood Countess, J. Root, Humberstone Jewel Mechthilde of Willowbanks, J. Moore, 380

205 Burnaby Lakeview Belle, Lakeview Farm Queen Anne Teake Lady, G. Nichols, Dunnville. Spinks August Daisy, O. Durham, Smithville.... 300 280 Willowbanks Cassie Korndyke, R. Davis, Burnaby. Willowbanks Hengerveld Lady, J. Root..... Spinks Butter Boy Walker, Haist & Ecker.... 225205 110

Incubation sl parations well in incubators at we as possible and t to lay in the fa cubation is cont Department of A Prof. W. R. Gra quote in the foll It is general good hatch, the are not likely to get good hatches

this matter up in members. Possibly ing low in fat. The pth of cream on the isible cream is not a e will be less on a elve hours old. The g are reliable means and cream and of k has been watered Because the milk

r has been added to disabuse their minds is the result of the The individuality test. A cow giving

o test as high as one ever, there are very he standard set by test to vary accord. the herd, and also occasionally due to ological conditions. airer, and more acality of milk which ascertained, if a er than convicting

tandpoint that' the epidemics have in inated milk. The oply of the city are dairymen. Every istomers with milk point of cleanliness difficult to keep the in the winter and this year owing to he flank and udder ilk through several moving the lactic n and cooling it in e practices which If these things are milk to be almost ould be an absence

ailed in producing person know little duction of butter while high, is not , labor and dairy ilk, or the pound , even though she on the market toof feed which the comes high, and farmer who must being proprietor, uch remuneration vn which in many capital which the and implements. present prices of w does not realize es to the man in ve cents a pound heese, and fifteen are the cheapest an's table.

#### Holsteins.

ng the town of a dairy district, lack and Whites

#### April 17, 1919

## POULTRY.

#### **Crop-bound Poultry.**

#### EDITOR "THE FARMER'S ADVOCATE":

A recent query in your columns in regard to crop-bound poultry in which your correspondent admits his inability to place the cause of the condition makes me think that perhaps the recital of my experience with the trouble in question might be of interest to some of your readers.

The occurrence happened to me four years and was due to my lack of a thorough knowledge of the needs and possibilities of the poultry character. That it never happened again in any degree whatever proves that the accident had a lesson to teach and that I learned

As my hens were laying well and I was being paid a very good price for the eggs I was most enthusiastic in my care and feeding. Especially was I keen to give them something warm, grain or mash, for their last meal of the day. I do not remember now from whom, or what authority, I obtained the information that fowl is in need of salt as much as the cow or the horse, but I do remember that the very day that I did so I generously salted an extra large mash and innocently dumped it in its entirety on the poultry feeding boards. Indeed, as I watched the ravenous eagerness with which my already well-fed birds attacked the highly seasoned mess I rather commended myself for having made the mash so large that there was no possibility of the more timorous not getting a full share. I had often given them such large mashes before and no harm had come of it for the fowl would apparently eat just what they wanted and leave the rest. However, this time their appetite for salt made them devour it to the last little bit, with the results, already foreshadowed, that the next morning revealed every hen with an enormously distended crop and sick enough to die within any time whatever. Indeed, two of them were unmistakeably past the need of help. It was a calamity.

The situation admited of no deliberation whatever. I simply had to rush relief. I quickly got a needle and thread, a

good sharp razor and a disinfecting solution and operated on all the desperate cases, that is on all the ones who were so far gone as to be in a sort of comatose condition. To the next lot that were not quite so bad I administered a tablespoonful of castor-oil and applied massage to the crop. To the final few that could drink unaided gave water saturated with salts and also massaged the crop. I recovered all but five.

The five that died included the two that were past help in the beginning and of the other three two were of the lot which were treated with salts and water and one of the lot treated with oil. To all appearance the

#### THE FARMER'S ADVOCATE.

the sitter. Some farmers do not set a hen until one becomes broody on a nest where no others lay, which often necessitates late chicks. The difficulty can be 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 eggs can roll out from the hen and get chilled; next, put on about two inches of straw or chaff; and then put a few earthen eggs into the nest. Place the nest in some 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 is sitting quiet the next day, you will be safe in putting the eggs under her. In our experience we get 90 per cent. of the hens to sit by following this method.

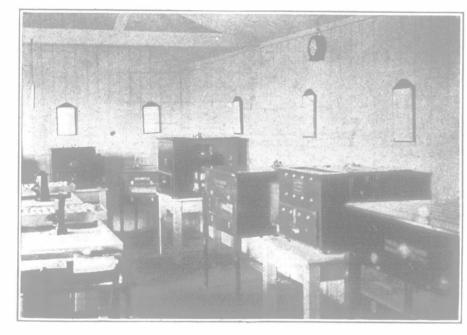
It should be remembered that the hen will be in better condition if dusted with insect powder when set, and also a few days before the hatch comes off. This will usually keep the lice in check, especially if some tansy or mint leaves are used in making the nest.

#### Artificial Incubation.

During recent years many incubator experiments 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, but to give, if possible, the best methods we know that can be used by the average person.

SELECTING AN INCUBATOR. There are many makes of incubators on the market that do fairly good work; they are not perfect, nor have they the hatching power of a normal hen, but then they are always ready to 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 I would suggest the purchasing of a well-built machine, one that is double cased, and that is easily cleaned, and whose fixtures, such as the lamps, etc., are convenient. We do not know which is the best incubator made

Recent scientific investigations indicate that it is



#### A Well-equipped Incubator Cellar.

liquid tended to further swell the inert contents of the probable, in some instances, that disease organisms, plan -- no matter what the type of machine-- is to thoroughly wash the entire interior of every machine before putting in the eggs for hatching. We use a ten per cent. solution of a tarry compound, such as creoline or zenoleum. This helps to clean the machine, and if applied hot, so much the better. We have obtained best results by using water or moisture during the entire hatch. I have seen good hatches from incubators where no moisture was used. We use a pan beneath the egg-tray, nearly the full size of the machine, and keep this pan covered with water, or wet sand, not more than one inch in depth. Many incubator thermometers are not relibale, and it is, therefore, advisable each season to have the thermometers tested. Any druggist will have a registered thermometer, and can do the testing if the owner does not wish to.

#### Operating The Machine.

757

We have obtained the best average hatches and the best chicks, other things being equal, operating the machines at 103 deg. F., with the bulb of the ther-mometer resting on the top of an egg; not at the side of an egg nor at the bottom. This heat is maintained throughout the hatch. We are particular to set clean eggs, usually not over two days old, which have been held at a temperature between 55 and 75 degrees. The eggs are best put in the machine in the morning; then the gradual heating of the eggs goes steadily on during the day, and by night we know that the machine is not too hot or too cold. Moisture is used from the start; we are more particular about moisture the first week of the hatch than at any other period. No ventilation is given until after the ninth day of incubation. Our best hatches in nearly all instances are from machines operated at a very even heat, with plenty of moisture, and little or no ventilation up to the ninth 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.

We do not like to let the chicks off the trays or down in the nursery. If they pant, it is nearly always from a lack of air; in such cases we open the door slightly or sufficient to keep the chicks comfortable.

## HORTICULTURE.

#### An Important Experiment.

Orchardists will have recognized, no doubt, a noticeable dissimilarity in the two spray calendars recently published in "The Farmer's Advocate," namely the Ontario spray calendar in the issue of March 27, and the spray calendar for Nova Scotia apple orchards in the issue of April 10. The latter more strongly favors Bordeaux mixture as a fungicide and places complete confidence in arsenate of lime as an insecticide. The Ontario authorities, who stand sponsor for the Ontario spray calendar are not ready to recommend arsenate of lime unqualifiedly. There is a considerable difference in price between arsenate of lead and arsenate of lime, the 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 N. S. practices to Ontario conditions, which are not 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 according to the recommednations of the Nova 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 all growers, as the results will no doubt have considerable influence on spraying methods and practices in the future

## FARM BULLETIN.

#### The Farmer's Generosity.

EDITOR "THE FARMER'S ADVOCATE":

Almost every day we see large advertisements in the newspapers supporting the present tariff. In fact, the manufacturers 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 turers receive almost no benefit from the tariff. Indeed, they even quote the price of agricultural implements in the various border towns of Canada and the United States, and these prices seem to show that the Canadian manufacturer is not taking advantage of protection to raise his prices. And then to clinch the argument they ask: "Under free trade where will the revenue come from?" There are only two places where revenue can come from, viz., the property and income of the people. A just tax is one that grants a small exemption on property 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 clothing for his family on credit for a time, and yet he will have to pay a tax on these necessities. In this case it seems to be a case of taxing a man's debts rather than his income or property. The farmer is asked to support the present tariff and inland revenue taxes to help reconstruction or prosperity, or some other excuse. It is presuming too much on the farmer's generosity to expect him to pay duties on what he buys for the sake of helping someone else to become prosperous. Canadian manufacturers have proven themselves well able to compete with Americans in lmost all markets of the world except here in Canada. Why not make them compete in Canada? Farmers are asking for fair play, not for favors. Farm products in normal times obtain no protection, hence manufacturers should obtain none. The deficit in the revenue should be met by a just method of direct taxation. The manufacturers do not like the idea of lowering their prices to the United States level, and at the same time having new income taxes to pay. No wonder they ask in alarm: "Under free trade where will the revenue come from?" Ontario Co., Ont. NELSON MCDOWELL.

VIIIAC UX

at vicinity. On s registered herd le, at very rerisk throughout in excellent conld, including a cows, realized paid by Logan w, Pet Lady of ality and with a d by Lakeview or four-year-old. Moote, of Canng cow, brought imals selling for s and addresses

ronte	\$195
anboro	250
Sta	
innville	100
	150
	230
liffe	130
one	380
Moore,	
	205
	225
nville	300
ille	280
Burnaby.	225
	205
	110

All those that I operated upon recovered nicely on a soft diet to which I added a bit of stimulant in the shape of gentian and red pepper. The operation is very simple and easily performed. Have someone hold the bird or else hang it up by the feet at a convenient height. Make the incision, first of the skin, then of the crop itself, just sufficiently large enough to pass your forefinger. Be sure that your finger-nail is cut so short that it will not scratch your patient. First bring out a portion of the congested contents through gentle pressure and manipulation if possible, and then insert your finger and carefully bring out the rest. Take the greatest precaution throughout to have nothing, either liquid or solid, get in between the outer skin and the crop. The final part of the operation is to close the openings that you have made; first the crop itself, then the outer skin; each of course, independent of the other. Put about three stitches to each incision. Give the bird protection from cold and drafts and feed on soft, gently stimulating foods for about nine days after. Carleton Co., Ont. Mrs. W. E. HOPKINS.

#### Incubation.

Incubation should now be in full swing or the preparations well in hand. Get the hens sitting and the incubators at work so the hatches will be out as early as possible and the pullets will be developed and ready to lay in the fall. Sound and reliable advise on incubation is contained in bulletin 247 of the Ontario Department of Agriculture which was compiled by Prof. W. R. Graham and F. N. Marcellus; from it we

quote in the following paragraphs: It is generally agreed that, in order to secure a good hatch, the hen must be placed where other hens are not likely to disturb her; for, as a rule, we seldom for any likely to disturb her; here lay in the nest with get good hatches when other hens lay in the nest with

The hatch is made or lost usually during the first week of incubation. Keep the temperature well up to 103 degrees, with the thermometer lying on the eggs, and maintain as even a temperature as possible.

Do not set dirty, washed, small or extra large eggs. The shell is porous and disease germs that may be on dirty eggs might infect a number of eggs. Do not turn the eggs when your hands are dirty, or immediately after handling lamps or kerosene.

The room in which the machine is operated should be clean and well ventilated. If possible, select a room that varies but little in temperature; in such a room it is easier to keep the hatching chamber of the machine at an even temperature. Where there is a strong odor of lamp fumes, or where there are decaying vegetables, or where moulds grow upon bits of boards or upon the walls, an incubator will not usually do good work. The lamps burn brighter, the eggs hatch better, and the chicks have more vitality when the air in the incubator room is pure.

# Parliament Keeps Itself Busy Fanning the Wind.

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

758

Canadian people on Friday, April 4, when Hon. N. W. Rowell moved the second reading of the bill to establish a Department of Health. Beginning by saying that "the proposal embodied in the Bill is one of the most important features of the Government's policy during the period of reconstruction," Mr. Rowell occupied the House with a lengthy dissertation upon 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. a careful reading of the following should lead to careful thought: "361,695 men were medically examined under the Military Service Act; of these 180,440 were accepted as physically fit; of the remainder 181,255 were found to be more or less physically unfit. In other words, of the adult male population of Canada of military age more than one-half were found physically unfit for active service." For lack of accurate vital statistics in Canada the Minister gave the following comparative figures for other countries comparing them with such Canadian statistics as are available: "The deaths of children under one year of age per 1,000 births in New Zealand are 50. How do other countries compare with New Zealand? Australia comes next with 68 deaths to 1.000 births; then comes Sweden, 70 to 1,000; France 78 to 1,000; the Netherlands, 87 to 1,000; Switzerland, 91 to 1,000; Ireland, 92 to 1,000; England and Wales' 110 to 1,000; and then when you pass over to countries like Russia you get 248 deaths per 1,000 births, and Chili, which has the highest mortality, 286 deaths per 1.000 births." Among the Canadian Provinces, he said, "The lowest on the list is Saskatchewan, 91.2 per thousand 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; Nova Scotia, 120.9, 1916; Quebec, 153.4, 1916." Referring to cities as showing more startling figures the following is quoted: "First let me give you the rates of infant mortality under one year of age as applying to 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 is unnecessarily high. Compare the figures which I have just given with those 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, 109; Winnipeg, 126; Vancouver, 144; Quebec 203; Montreal, 207; Ottawa, 224."

"In the South African war, of the British forces, there died of disease 14,653; there were killed or died of wounds, 7,792. In other words, sixty-five per cent. 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. That is, forty 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 from wounds. During the present war, in the Canadian Expeditionary Force, 2,815 died of disease, and 51,853 were killed or died of wounds. That is, 5.14 per cent. died of disease, and 94.85 per cent. from wounds. That is a magnificent tribute to the efforts and skill of our Army Medical Service Corps. I submit that I have disclosed a state of affairs that calls for the most serious consideration not only of the Government and the members of this House but of the people of this country, as to what action we 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."

It has its Bureau of Aniline Industries, its Bureau of 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 department of pharmacology. That is how the Washington Federal Health Department is arranged at the present time."

Dr. R. J. Manion added an estimate of the value of human life by saying: "It is worth noting that life insurance companies estimate the value of a human life at \$2,500 to \$4,000, and when you take into account the thousands of these little infants who die every year 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 House travelled all up and down the Great Lakes and over to 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: "I understood that the policy of the Government in regard to housing was still to be discussed in the shape of a Bill which was mentioned in the Speech from the Throne, but it appears that the policy has been not only settled but put into operation by an Order-in-Council. I have been pretty patient with Orders-in-Council, -my Hon. friends opposite perhaps think too much so,but this is a method of procedure which, if I understand it correctly, I should advise the Minister to look into very carefully. I am amazed,-I am the subject of consternation,-if I have correctly learned that the Government, by an Order-in-Council, is actually consulting about a policy which is yet to be debated and decided upon in this House. I am bound to add an opinion for what it is worth that it would have been very much better for the Government if they called Parliament together in December, 1918, and submitted housing legislation to this House before they took a course which practically amounted to legislating as a Government by Order-in-Council for the Dominion of Canada upon a purely domestic affair in consulation with the Provincial Governments."

#### Religious Prejudice Has Its Fling.

General Sir Sam Hughes again broke out on Monday, April 7. The occasion this time was the bringing forth of a resolution asking that a Select Committee of the House be appointed to investigate the conditions and facts surrounding the raid by an officer and men of the Militia Department, of a Jesuit Novitiate at Guelph, Ontario. Notwithstanding the ready acquiescence of 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 exonerated himself and his Department, admitting the indiscretion of the officer who raided the Novitiate. After he got through, the Orangemen and the Roman Catholics went to it in a perfectly joyful manner to anyone who enjoys a scrap in words, but it was kept up for times one would have ught a praver 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 and Roman Catholic college students as willing to enlist. The history of the Jesuit Order was more or less fully related and several impassioned speeches stirred up all the ire and animosity that could be gathered together from either side of the House. And all to no purpose. Half an hour would have served to arrange for an investigation and all the deplorable discussion would have been avoided. Moreover, the business of the country could have been proceeded with. This is perhaps an exaggerated instance of how small pretexts are taken to use up hours of time discussing questions of very minor importance. One would think that the serious business of the country should receive foremost consideration, leaving petty religious jealousies for those who have nothing better to do. The curse of the present session is the waste of time and when the session promises 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 should not suffer in the meanwhile.

proposing to extend that to five years. There is a provision in the law as it now stands casting upon transportation companies certain duties and responsibilities a reference to the carrying of immigrants to Canada. It is proposed to extend the term "transportation company" so as to make it applicable to the Federal Government and the Provincial Governments which have transportation systems. Under the law as it now stands there are certain prohibited classes; certain people are prevented from entering Canada on account of their being mentally or physically unfit or for some other reason. It is proposed to include within the prohibited classes persons who are suffering from chronic alcoholism (2) Those coming within the class of what is called constitutional psychopathic inferiority. Then, it is 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. It is also suggested that we should set up a literary test and that persons should be included in the prohibited 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 constituted Government by force or violence or who advocate the unlawful destruction of property; also persons guilty of conspiracy against His Majesty; enemy aliens who have been interned and also enemy aliens who have been deported from Canada, or from British countries,

#### Royal Commission on Labor and Industry.

tor any cause.

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 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 relations between capital and labor referred to the fact that difficulties have become more and more frequent as the number of men who were organized increased from year," and stated that "it would be better, if possible, to prevent a dispute occurring than to adjust 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 and labor, which was described as follows: "It is proposed that a small commission of five or seven members, composed of men who absolutely command the confidence of the public of Canada, and who are personally deeply interested in this serious problem, should im mediately proceed to all the large centres in Canada and hold consulations with the employers and the workmen, just as I have been doing here in a small way, and, after carefully surveying the situation and getting the joint opinion of the various classes interested in the problem, let us have their recommendations not later than May 15; and, upon the report of that commission, based upon the evidence and judgment of the people throughout Canada who are interested-employers 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 to 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 between 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 following general statement made by the Minister of Labor, should have some bearing on the necessity for spending millions of dollars from a depleted treasury for the purpose of relieving on unemployment that apparently will not exist in a very short time: "The unemployment situation throughout Canada is improving 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 to that province. As soldiers have the option of taking their discharge whereever they may choose in the Dominion, too many of them, for various reasons, in some instances because of invitations extended by provincial officials who desired immigration to that rovince,-have been encouraged to go out to British Columbia, and there is a rather acute situation existing in the coast cities at the present moment. But I have every reason to think that probably within sixty days from now we may have an actual labor shortage in Canada. Only yesterday I received word that our railroads west of the Great Lakes, who just a couple of days ago placed an application for a large number of laborers, have stated that within thirty days, or as soon as the frost is out of the ground, they will want 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

-----

FOUNDED 1866

APRIL 17,

Temporary Bank Circula Dominion N

Funded Deb

Savings Ban Trust Funds Province Acc Miscellaneou

Assets.... Investments Sinking Other In

Province Acco Miscellaneous Total As

Total Net De

Revenue Customs Excise Post Offi Public W Miscellar

Total

Expendit

Expenditure War Public W

- Public W Railway

Total...

-----

Just by w here that all of Commons the assent of some little cer a few day ag one day when Committee, t Everybody wields the n beeline to the of the mace f top of the ta turning, repor Sent back to : doubled himse that the Dept the House in twice more he his officers, Sergeant-at-A the Senate st audience who true commone awful impressi supposed to c

• Naturally, the doctors, of whom there are quite a sprinkling in the House, had a perfectly glorious day. There were in their element and out of it and disported themselves and exhibited vast stores of knowledge and a little healthy criticism veiled in rushing torrents of parliamentary oratory. Dr. Sheard, South Toronto, greatly feared that the bill will conflict with provincial authority. He dilated at length upon the necessity for a bureau of scientific research in connection with the new department. He rather favored an organization similar to that followed in the United States has made considerable advancement as regards sanitary matters.

#### Immigration Act to be Ammended.

A bill to amend the Immigration Act was introduced in the House early last week by Hon. J. A. Calder, Minister of Immigration and Colonization. Brief reference was made to some of the amendments proposed all of which will, of course, be more fully discussed when the bill reaches the committee stage. Briefly, the Minister said: "In the first place, the Bill provides for the extension of time during which persons who enter Canada as immigrants may be deported. Under the law as it now stands, the period is three years—we are

#### Canada's Financial Statement.

The financial statement of the Dominion of Canada to March 31,1919, as compared with our position on March 31, 1918, is given in the accompanying table. This statement was given out by the Finance Department on Tuesday, April 8. offices and m their irrespon-General occupi Acting Prime consent was p was finally del we took for th declared forr Deputy nodde and when all t and repeated standing seats had been give put on their di railway probl

#### Canadia

The first a held in Toront One hundred from some of t were disposed of the animals high quality, ever, there w so attractive, of the sale. and materially animals sold i and four femal the eleven mal Posch, consign O'Reilly, topp bid of G. E. A. R. O. daugh tions back wer APRIL 17, 1919

#### THE FARMER'S ADVOCATE.

FOUNDED 1366 ve years. There is a pro-

ands casting upon transuties and responsibilities immigrants to Canada. rm "transportation comle to the Federal Governovernments which have r the law as it now stands asses; certain people are da on account of their unfit or for some other de within the prohibited from chronic alcoholism; class of what is called nferiority. Then, it is into our law a provision who are either mentally on as that they are not ing should be excluded. hould set up a literary be included in the proto read. That provision The Bill also provides rohibited classes persons the overthrow of conr violence or who advoproperty; also persons Majesty; enemy aliens enemy aliens who have from British countries,

#### bor and Industry.

s borrowed plumage in rown who should sit in e scene of an important s ago by the Minister on, referring to the steps romote better relations erred to the fact that and more frequent as re organized increased it would be better, if ccurring than to adjust veral months, according ent has been working plan has been evolved elations between capital follows: "It is proposed ve or seven members, ely command the conand who are personally s problem, should im rge centres in Canada nployers and the workere in a small way, and, lation and getting the sses interested in the nmendations not later ort of that commission. dgment of the people ested-employers and attempt to make a Government's policy be necessary in order ing out of the idea or e Government may be eration and harmony ployers and employed. indertake to ascertain tation in the control Canada is abating and nade by the Minister ring on the necessity m a depleted treasury unemployment that ry short time: "The nout Canada is imin the province of unhappily an exodus, soldiers who returned e the option of taking y choose in the Dovarious reasons,-in tations extended by immigration to that to go out to British ute situation existing noment. But I have al labor shortage in ved word that our who just a couple of r a large number of thirty days, or as und, they will want rb the large number s out of employment loyment to returned

Public Debt.	1918	1919
LIABILITIES.		
Funded Debt—Payable in Canada " " London"	\$ 744 379 494 74	\$1.475.080.964.1
" London	362,703,312,40	362.703.312.4
I CW I OI K.	75 972 000 00	75,873,000.0
Temporary Loans Bank Circulation Redemption Fund	579,005,464.00	361,187,666.6
Bank Circulation Redemption Fund	5,799,609.27	5,862,263.4
Dominion Notes	251,622,765.54	
Bank Circulation Redemption Fund Dominion Notes	39,657,173.46	
Dolli, Gov t. Saving Daliks	12,004,822.43	
Trust Funds Province Accounts	10,923,371.69	
Miscellaneous and Banking Accounts		
Miscellancous and Estimates	28,072,687.43	29,675,240.9
	\$2,121,962,182.22	\$2,682,256,674.5
Assets	\$ 16,291,525.04	
Investments	238 032 849 35	
Sinking Funds	2 206 227 00	
Other Investments	758,947,455.94	345,834,330.10
Province Accounts	67 	2,296,327.90
Miscellaneous and Banking Accounts	0	877,081,210.09
Total Assets	\$1,015,568, 153.23	\$1,243,879,381.28
Fotal Net Debt March 31	\$1,016,394,023.99	\$1,438,377,293,24

Revenue and Expenditure on Account of Consoli		1010
Revenue Customs Excise Post Office Public Works (including railways and canals) Miscellaneous	$\begin{array}{c} 1918\\ \$143,311,395.12\\ 26,677,387.23\\ 20,774,200.40\\ 27,200,585.90\\ 34,408,940.34\end{array}$	$\begin{array}{c} 1919\\ \$147,740,215.1\\ 30,011,839.5\\ 20,100,000.0\\ 39,194,472.5\\ 68,184,281.3\end{array}$
Total	\$252,372,508.99	\$305,230,808.5
Expenditure	\$141,989,541.35	\$196,073,805.0
Expenditure on Capital Account: War Public Works (including Railways and Canals) Railway Subsidies.	\$299,930,317.41 27,025,729.69 720,404.75	\$347,824,274.2 10,873,913.5 25,896.00
Total	\$327,676,451.85	\$364,724,083.82

#### How Royal Assent is Given.

Just by way of interest it may be worth mentioning here that all bills, after they are passed by the House of Commons and the Senate, must, apparently, receive the assent of the Governor-General. Now it requires some little ceremony to give this assent as we found out a few day ago. T'n bills had passed both houses and one day when the Commons were discussing a bill in Committee, three heavy knocks were heard at the door. Everybody jumped and the Sergeant-at-arms who wields the mace and bosses the pages around, made a beeline to the clerk table and a subsequent quick change of the mace from its place in committee to its place on top of the table. Then he went to the door and, returning, reported a message from the Governor-General. Sent back to admit the messenger, the latter appeared, doubled himself up like a jack-knife twice and announced that the Depty Governor-General desired the presence of the House in the Senate chamber. After doubling up twice more he disappeared, followed by the speaker and his officers, the mace resting on the shoulder of the Sergeant-at-Arms. Members straggled after and entering the Senate stood up along the back like the part of an audience who held no reserve tickets at a concert. Like true commoners they were merely onlookers and in the awful impressiveness of the Senate chamber are doubtless supposed to cast aside the dignity of their responsible offices and maintain a solemn silence in the presence of their their irresponsible superiors. The Deputy Governor-General occupied the speaker's chair in the Senate and the Acting Prime Minister stood at his right. His Majesty's consent was pretty well filtered through by the time it was finally delivered by a black robed gentleman whom we took for the clerk of the Senate, but was nevertheless declared formally given. The Governor-General's. Deputy nodded his head solemnly after each declaration and when all the declarations had been read in English and repeated in French the meeting was over and the standing seats were vacated. The necessary assent had been given and members of the Commons again put on their discussion of the discusse Canada's put on their dignity so that they could discuss Canada's railway problem.

old cow, Fairview Posch, was the highest-priced female of the sale. Although nine years old she has just recently completed a test, making 29.54 lbs. butter in seven days. She was the first-prize cow at London last fall. Her best day's milking was 110.9 lbs. She was consigned by A. E. Hulet, of Norwich, and went to J. B. Jones, Detroit, Mich., for the consideration of \$1,380. High-lawn Segis, a four-year-old cow consigned by Jos. O'Reilly, was purchased by Wheatfield Farms Inc., of New York, for \$1,300, and her six-weeks-old calf brought \$450. Aaggie Faforit Johanna, from the Gooderham Farm, went to W. L. Smith, of Ancaster, for \$1,000. Although up in years this cow has a particularly good record behind her. She is due to freshen to King Korndyke Sadie Keyes. Among the consignors to the sale were J. O'Reilly, G. S. Gooderham, Oak Park Stock Farm, L. H. Lipsit, A. E. Hulet, W. F. Elliott, W. C. Houck, J. Kilgour, K. M. Dalgliesh, J. B. Hanmer, R. M. Holtby, J. Peel and W. H. Shaw. Following is a list of prices received for the animals.

Following is a list of prices received for the animals, together with the names and addresses of the purchasers:

#### Females.

\$1,300

450

200

345

500

900

195

145

155

205

440

185

110

310

500

535

200

150

 $\mathbf{240}$ 

165

200

110

100

305

Riverdale Lady Segis, Gates & Darnell, Guelph. Madam Imperial Beauty, Wheatfield Farms. Ormsby De Kol Pontiac, Hector McGee. Manor P. H. Nicolo, W. F. Elliott. Manor K. S. Belle, Ira Shaver, Ancaster. Manor Seris Belle, Ira Shaver, 165 350 245350 Manor Segis Belle, Ira Shaver..... Manor P. H. Girl, Neil McLean, Rockwood...... Manor Segis Posch Pietertje, Wm. Marshall, 400 205 190 Milton Manor K. S. Hengerveld, Allan Steeves, Moncton, 255 N. B.... 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 Wayne Korndyke, A. R. Green, Concord... Manor Segis De Kol, J. S. Baird, Scarboro Jct.... Mary Mercena Pontiac, Jas B. Jones 200 260 110 .000 350 255 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 Pellatt... Manor Segis Mayflower, W. F. Elliott.... Manor Segis Princess, D. B. Tracy, Cobourg.... Manor Segis Inka, B. B. McCarty... Manor Segis Pauline, J. H. Power, Bowmanville... Manor Segis Countess, H. J. Miell, Hagersville... Manor Segis Maud. Hospital for Insane. Hamilton. 490 500 200 470 340 405 310 Manor Segis Countess, H. J. Miell, Hagersville..... Manor Segis Maud, Hospital for Insane, Hamilton. Artis Foekje Pontiac, R. C. Lanning, Waterford... Manor Segis Burke, Thos. Baird, Georgetown..... Manor Segis Lady, J. McMillan..... Hill-Crest May Echo Belle, J. B. Jones..... Manor Mercena Schuiling, Wheatfield Farms.... Colantha Hengerveld Brookbank, Angus C. Taylor, Belmont 270 430 405 320 210 Belmont 135 270 405

High Grove Inka Ormsby, Sir Henry Pellatt..... Betsy Pauline Korndyke, Sir Henry Pellatt..... High Grove Echo Fayne, Wheatfield Farms..... Flossy Wayne Pauline, Frank Mason, Wexford... Pussie Keyes Princess, Hospital for Insane...... Laura Netherland Rue, J. B. Jones. Rideau Pietertje De Kol, W. C. Houck, Chippawa. High Grove Lady Brookbank, A. E. Hulet, Nor-

wich. Bell Ormsby Canary, W. A. Tonson, Scarboro Jct. Edgmont Pride, E. E. Muirhead, Newmarket..... Highgrove Grace Fayne, Frank Hibbert, Ingersoll. Bella Brookbank De Kol, Wm. Sellery, Agincourt. Nina Segis, J. T. Shanahan, East Aurora, N.Y... Sunnybrook Nina Segis, J. B. Jones. Segis Prilly Victoria, J. H. Power. Netherland De Kol Princess, Wheatfield Farms. Fayne Segis Maud, Wheatfield Farms. Forest Ridge Nancy Fayne, R. Cooper, Welland. Molly May De Kol, J. B. Jones. Forest Ridge Segis Nancy, I. M. Metcalf, Bowman-ville. 1,100

ville Llenroc 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. Low Banks Korndyke May Echo, Sir Henry

335 Pellatt ... 425 Pontiac Johanna Artis, J. S. Baird. Sunnybrook Lillian, Wheatfield Farms...... May Belle, Wheatfield Farms...... 470 300 May Belle, Wheatheld Farms..... Sunnybrook Canary Girl, Wheatheld Farms...... Natoye Mercedes De Kol, Earl Stover..... Pontiac Ormsby De Kol, J. B. Jones.... Victoria Pontiac, J. T. O'Connell.... Ben Vorlick Princess De Kol, Sir Henry Pellatt.... Verbelle De Kol Keyes 2nd, Allan Steeves..... Highland Topsy Maida, Sir Henry Pellatt..... Dorothy Hill, C. R. Dyke, Unionville....... 295 225 810 320 235 390 230 140 400 Victoria Helen, A. M. Muir, Scarboro..... Carrie Minto Gerben, S. Elliott..... Daisy Burke Pride, Wheatfield Farms..... 350 120 Fairview Posch, J. B. Jones. Posch Daisy, H. H. Bailey, Paris 1,380 240 680 Aaggie Cornucopia Posch, Wheatfield Farms......

215 400

360

190

230

120

750

180

210 130

740

360

365

255

600

455

305

465

425

#### tement.

minion of Canada to r position on March anying table. This Finance Department

#### Canadian National Holstein Sale.

The first annual Canadian National Holstein sale, held in Toronto April 10 and 11, was a decided success. One hundred and twenty-five head of Holsteins drawn from some of the most renowed herds of Western Ontario were disposed of at remunerative prices. The majority of the animals offered were of excellent breeding and high quality, and bidding was brisk on these. However, there were a few animals that were not quite so attractive, and they tended to reduce the average of the sale. A number of American buyers were present and materially the sale of American buyers are the poorer of the sale. and materially helped the sale. A few of the poorer animals sold under the \$100 mark. The one hundred and four females selling for over \$100 averaged \$347.84; the eleven males averaged \$548.18. King Segis Pontiac Posch, consigned by Gordon S. Gooderham and Jos. O'Reilly, topped the sale at \$3,350. He went to the bid of G. E. Black, of Guelph. This bull has seven A. R. O dynahtors and his acceptors for several genera-A. R. O. daughters, and his ancestors for several generations back were producers of record stock. That grand Grace Fayne Faforit, S. Elliott

Keyes Echo Hengerveld, Earl H. Stover, Thedford.

Pontiac Jewel Echo, Fred Hibbert, Ingersoll. Katy Burke Korndyke Pontiac, S. Elliott, Kingston...

Toitilla of Riverside, A. J. Tamblyn, Orono High Lawn Segis Calamity, R. H. Stover, Thed-

ford Pontiac Helena Echo, W. F. Hunt, Dundas... Phocis Lilly Ormsby, R. H. Tillet, Roache's Point.

Phocis Lilly Posch, Sir Henry Pellatt, King Champion Toitilla Rauwerd, A. R. Greene, Con-

cord. Helena Hermes Keyes, W. L. Hunt, Dundas...... Hill-Crest Pontiac De Kol, H. Boake, Jersey-

ville. Hill-Crest Pontiac Pietertje, B. B. McCarty, Thamesford ..

Rooker Netherland Bell, S. Elliott. Burkeyje Hengerveld May Echo, W. F. Elliott. Het Loo Duplicate, Wheatfield Farms.. Heifer calf, R. M. Holtby, Pt. Perry Phocis Echo, T. E. Shaver, Jerseyville..... Burkeyje Ormsby, W. F. Elliott. Rella Netherland Echo, Wheatfield Farms..... Echo Ormsby Countess, J. B. Jones, Detroit, Michigan Rebecca Ormsby, Hector McGee, Woodbridge

Daisy Echo Gerben, R. H. Tillett
D : Calanter S Elliott
Daisy Gerben Calamity, S. Elliott.
M I D I' D. M. Cir Honey Pollott
Mutual Pauline Patti, Sir Henry Pellatt
D. F. O. I. C. I. Fred Dears Heappler
Daisy Gerben Ormsby, Fred Bagg, Hespeler
A Di C C 'il Di Domini
Johanna Nig, Geo. Smith, Pt. Perry
John T O'C II D
Riverdale Lady Lyons, J. T. O'Connell, Peter-
Riverdale mary Byono, j. It is seen of the

boro

#### Males.

King Segis Pontiac Posch, G. E. Black, Guelph Johanna Rauwerd, Cousins Bros., Woodbridge Premier Pontiac Hengerveld, H. F. Boake Correct Axe, W. R. Cummings, Cumming's	3,350 100 525 135
Bridge Segis De Kol Netherland, B. R. Barr, Harrietsville. Llenroc Pontiac Champion, Sir Henry Pellatt Sir Sylvia Pontiac Korndyke, Wm. Chambers,	515 470 350
Ingersoll Sir Lyons Natoye, J. D. McLean, Rockwood Pietertje Beets Gipsy, J. S. Baird Comet Ormsby Burke, C. R. Dyke, Unionville Earl Burke Echo, Cousins Bros	115 160 150 160

#### **Railway Commission Gives** Judgment.

After a delay of about ten days, the Board of Railway Commissioners decided that they had no jurisdiction in the matter of daylight saving, and that Parliament should decide this matter. They say that public would be endangered by the failure of our railroads to adopt the same time as United States railroads.

Our English correspondent informs us that the 165 Agricultural Wages Board, set up by the British Board of Agriculture, has decided upon a substantial advance in the minimum rate of farm worker's wages. Workers 21 years old and over are to have a raise of 6s. 6d, per 265260 week; those over 20 but under 21 years, 5s.; those over 19 but under 20, 4s.; 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 180 220 on week days, and time and a half on Sundays.

FOUNDED 1866

17.50-18.00

14.50-15.50...

16.00 -

21.00

20.00 19.00

18.00

16.00

15.50

Week

Ending

Apr. 3

.1,157

2,511

1,058

113.

141..

Receipts

Same Week

1918

..2,342. ..2,431. ..2,357.

58.

70

65

Toronto, Montreal, Buffalo, and Other Leading Markets Dominion Department of Agriculture Live Stock Branch, Markets Intelligence, Division

## **Receipts and Market Tops**

	D	CATTLE		
	Receipts	Top	Price Good Steers	
Toronto (Union Stock Yards) Montreal (Pt. St. Charles) Montreal (East End) Winnipeg Calgary	614 380 2,7001.575	Week         Week           Ending         Ending           Apr. 3         Apr. 10           .5,552         \$15.75           .408         16.00           .513         16.00           .3,101         15.00           .1926	(1,000–1,200) Same Week Week Ending	Week Ending Apr. 10 1,793 2,932 2,478 83 65

	HOGS	100
	Week Same Week Week Same Work	Receipts Top Price G
Toronto (Union Stock Yards) Montreal (Pt. St. Charles)	Apr. 10 1918 Apr. 3 Apr. 10 Week Ending	Week Same Week Week San Ending Week Ending Ending Wee
Montreal (Fast End)	1,223 $1.465$ $1.178$ $21.25$ $221.00$ $$20.50$	Apr. 10 1918 Apr. 3 Apr. 10 191 579 189 287\$22.00\$20.
Calgary	5,283 $5,589$ $8,282$ $20.25$ $21.50$ $22.25$	88         18         95         16.00           83         31         61         16.00
Edmonton	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	356 5 158 15.50

#### Market Comments.

760

Toronto (Union Stock Yards.)

There was a heavy run of cattle during CLASSI the week, a total of seven thousand eight hundred head being on sale. While extra fancy prices were paid for a few individual animals, trading on the whole was in-clined to be slow, and toward the end of the week reductions of from 25 to 50 cents per hundred were noted on medium and common grades of cattle. Jewish 700-1 ( cents per hundred were noted on medium and common grades of cattle. Jewish buyers were in the market for extra choice quality stock for their holiday trade, while packers had orders to fill for the Easter demand. This extra inquiry was responsible for the high prices paid on choice quality cattle. There were a few heavy steers on sale, and five head shipped in from Meaford, Ontario, averaging thirteen hundred pounds each, sold at Cows in from Meaford, Ontario, averaging thirteen hundred pounds each, sold at \$16.50 per hundred, while six head of about equal weight but lacking as good quality sold at \$16; these were about the top prices. Other sales of stock of this class were made from \$14.75 to \$15.50 per hundred. Of steers weighing from ten to twelve hundred pounds each, a number to twelve hundred, of steers weighing from ten to twelve hundred pounds each, a number of small lots sold from \$15.25 to \$15.50 per hundred, while most of the good quality stock within these weights realized from \$14.25 to \$15 per hundred. Medium CALVES from \$14.25 to \$15 per hundred. Medium quality stock was weighed up from \$13 to \$14 per hundred. For steers and heifers STOCKER 450-800 to \$14 per hundred. For steers and heifers under ten hundred pounds some ex-ceptionally good prices were realized. One steer of about ten hundred pounds topped the market at \$20 per hundred while numerous good sales were made from \$15 to \$18 per hundred, mostly for baby beef cattle. A straight load of nice young stock averaging seven hundred pounds per animal sold at \$14.75 per hundred, and other sales were made from \$13.75 to \$14.50. Cows shared in the fancy prices being paid and two head FEEDERS 800-1,000 Hogs (fed an LAMBS the fancy prices being paid and two head averaging sixteen hundred pounds each sold on Tuesday at \$17.50 per hundred.

	1		451 20	. 50 20 .	25 19.50	104	. 47	14
g t	CLASSIFIC STEERS	ATION	No.	T( (Union Avge. Price	ORONTO Stock Yards) Price Range Bulk Sales	Top Price	No.	M (Pt Avge. Price
1	hea	vy finished	305	\$15.14 \$	14.75-\$16.50	\$16.50		A MCC
		good 0 common	. 1,114	14.78	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15 75	44	15.00
	STEERS 700–1,000	good common	1,948	13.80	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14 50	74	13.75. 11.00
	Heifers	good fair common	1,278 394	13.64 11.75	13.00-14.50	14.75	36 22	13.00 10.75 9.00
	Cows	good common	597	11.37	10.75-12.00	13.00 10.00		11 .25 8 .75
	Bulls	good common	139 99	10.83 9.05	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.75 10.50		12.00
(	Canners &	CUTTERS	117	6.50	6.00-7.00	7.00		6.25
C	)XEN							
C	CALVES	veal. grass	1,793	14.50	14.00-16.50	18.00	2,932	
4.	tockers 50–800	good fair	117 99		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12.00 11.00	- 1993 (s.e.	1.1.1.1.1
F 30	eeders 00-1,000	good fair	65 43	12.77. 12.00	12 25- 13 50 11 00- 12 25			
	ogs (fed and watered)	selects heavies lights sows stags	1 131 183	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7 50 10 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0 .75 9 .75 8 .75 7 .75
A	MBS (	good common	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	20.621 18.001	9.00-22.00 7.00-19.00	22.00 19.00	23 16	6.00 5.00
H	EEP	heavy light common			$\begin{array}{cccccccccccccccccccccccccccccccccccc$		33 13	3.00
							20 11	. 50

CALVES	The
Top Priced Good Calves	Inci
k         Week         Same         Week         Ending           3         Apr. 10         1918         Apr. 3           7         \$18.00         \$16.75         \$17.00           1         14.25         12.50         14.50           8         14.25         12.50         14.50           3         14.50         15.00         14.50	invites financ of t
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	enable duction
SHEEP	to th
Top Price Good Lambs Week Same Week g Ending Week Ending	Saving L
Week       Same       Week         g       Ending       Week       Ending         3       Apr. 10       1918       Apr. 3	Interest
16.00       16.00         15.50       15.50         13.00       13.00	lower; canner she-stock ste calves, \$1 to and common
MONTREAL (Pt. St. Charles) re. Price Range <b>Top</b> ce Bulk Sales <b>Price</b> 0014.00-15.7516.00	others 25c. h Sheep.—Co quotations s follows: Or light yearling heavy yearling shorn lambs, lower.
75 12 .50- 14 .00 15.00 00 10 .00- 11 .50 12 .50	Horses.—T neglected du
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	are still ready \$150 to \$200 e steady with h
25 10.50– 12.00 <b>12.00</b> 5 8.00– 9.50 <b>9.75</b>	from 1,500 tc to \$300 each; 1,400 to 1,50 light horses
0	light horses, \$50 to \$75 e saddle animal Dressed Ho
5	the market
0 10.00 10.00	advance and t good, prices v 28 cents per l stock 25½ to
0 10.50-13.50 14.25	stock 25½ to
	dressed. Han changed, but 37 cents per 11 lbs. at 35 cent 33 to 34 cents

46 to 47 cents with Canadiar barrel, short-c pork \$45 and Lard was in go pure leaf at 30 Poultry. W the market turkeys were o a lb. the range

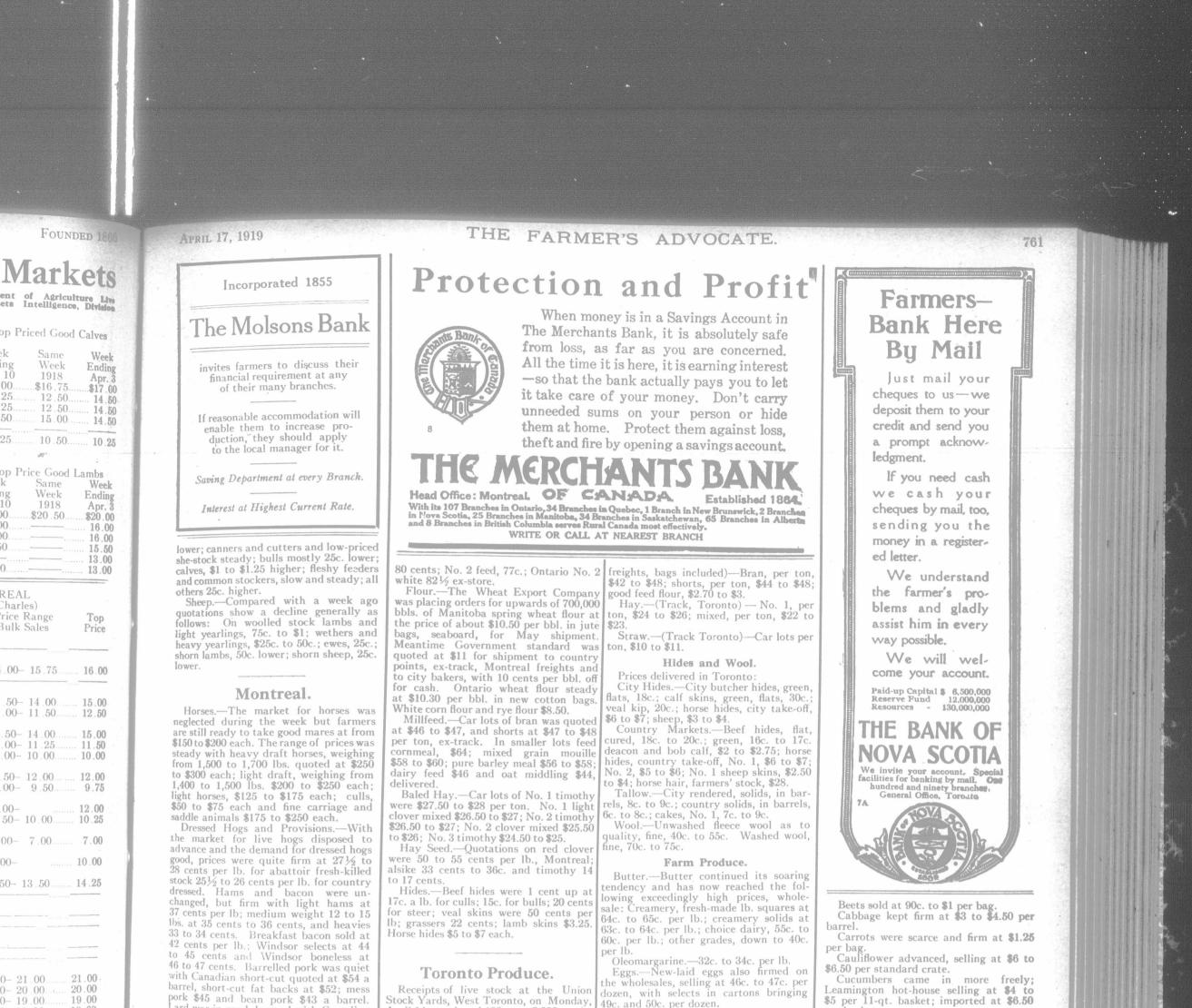
to 1,50 orses, \$75 e animal ed H rket and t rices s per 5½ to Har l, but s per l 35 cen cents

APRIL 17,

In

42 cents per to 45 cents

proaching and



pure leaf at 301/2 to 31 cents. Poultry. With the lenten season approaching and supplies of poultry light the market was strong and choicest turkeys were quoted as high as 47 cents a lb. the range being down to 45 cents and to 40 cents for ordinary stock. Chickens ranged from 36 to 44 cents. Fowl ranged from 30 to 35 cents; ducks from 37 to 42 cents and geese from 28 to 30 cents. Potatoes.-The market holds fairly steady with car lots of Green Mountains quoted at \$1.50 and Quebec Whites, \$1.30 to \$1.35 per bag of 90 lbs., extrack, and smaller lots selling at 25 cents more. Maple Products .- Supplies of maple products are in fair volume and demand was excellent. In a jobbing way new syrup was quoted at \$2 to \$2.10 per 13-lb. tins and at \$1.65 per 8½-lb. tin. Sugar was 24 cents to 25 cents and very little was available. Eggs.—The statement was made that country shippers are being freely offered 44 cents f. o. b. cases returnable, but are looking for 45 cents. Receivers here were asking up to 46 cents and it is said that prices now being paid to country store-keepers are from 40 to 42 cents. Eggs were going into cold storage at around these prices and are bound to be dearer this fall. Butter.-The price of butter continued to advance and finest was quoted at 62 cents per lb. in solid packages while dairies ranged from 46c. to 50c. Grain - Car lots of No. 3 Canadian Western barley were quoted at \$1.20 per bushel, ex-store. No. 4, at \$1.18; extra No: 3 Ontario, \$1.21; No. 3, \$1.20; sample grades, \$1.10; No. 2 Canadian Western oats 86 cents; No. 3 Canadian Western and extra No. 1 feed \$20 + No. 1 feed and extra No. 1 feed, 83c.; No. 1 feed

Lard was in good demand with Canadian

Receipts of live stock at the Union Stock Yards, West Toronto, on Monday, April 14, numbered 193 cars, 2,800 cattle, 798 calves, 4,662 hogs, 196 sheep and lambs. Slow market. Butcher cattle steady to 25 cents lower but quality not so good as last week. Cows and bulls steady. Calves \$1 to \$1.50 per hundred lower. Sheep steady; lambs 18 to 20 cents per hundred. Hogs strong; f.o.b. selling at \$20 to \$20,50 per hundred Wheat.-Ontario (f.o.b. shipping points, according to freights)-No. 1 winter, per car lot, \$2.14 to \$2.20; No. 2 winter, per car lot, \$2.14 to \$2.25, 10. 2 whiter, per car lot, \$2.11 to \$2.19; No. 3 winter, per car lot, \$2.07 to \$2.15; No. 1 spring, per car lot, \$2.09 to \$2.17; No. 2 spring, per car lot, \$2.06 to \$2.14; No. 3 spring, per car lot, \$2.02 to \$2.10. Manitoba (in store, Fort William), No. 1 northern, \$2.241/2; No. 2 northern, \$2.211/2; No. 3 northern, \$2.171/2; No. 4 wheat, \$2.111/2 Oats.-Ontario (according to freights outside)-No. 2 white, 70c. to 72c.; No. 3 white, 68c. to 70c. Manitoba (in store, Fort William,)—No. 2 C. W., 71<sup>7</sup>/<sub>8</sub>c.; No. 3 C. W., 68<sup>7</sup>/<sub>8</sub>c.; extra No. 1 feed, 68<sup>7</sup>/<sub>8</sub>c.; No. 1 feed, \$66<sup>7</sup>/<sub>8</sub>c.; No. 2 feed,

Leamington hot-house selling at \$4 to \$5 per 11-qt. basket; imported at \$6.50 per basket.

Lettuce did not vary. Leaf bringing from 30c. to 60c. per doz.; Canadian head, \$1 per dozen.

Ónions.—There were very few good onions offered, ranging in price from \$2.25 to \$2.75 per 75 lbs., with choice stock oringing \$3.25

13.00 12.00 12.00

18.00

16.00

15.50

10

00.

50

25.

00 -

0 - 19 00

0 - 18.00

0- 15.50...

#### points consisted of

s from January 1 were: 9,393 cattle, 1 hogs and 5,108 ith 8,324 cattle, gs and 5,047 sheep, prresponding period

e disposition from ek ending April 3, nouses and local 1,058 calves, 496 ogs and 61 sheep. States' points con-ttle.

rom January 1 to re: 11,408 cattle, s and 5,570 sheep; attle, 7,419 calves 2 sheep, received g period of 1918.

0.

\$20.45 to \$20.60; to \$20.60; light 45; light lights, \$18.50 to \$19.90;

good and choice ower, others 25c. tock, 50c. to 75c.

635%c

Corn. — American, (track, Toronto, prompt shipment,) No. 3 yellow, \$1.80, nominal; No. 4 yellow, \$1.77, nominal.

Peas (according to freights outside)-No. 2, \$1.70 to \$1.80, nominal.

Barley (according to freights outside)-Malting, 95c. to \$1, nominal.

Buckwheat (according to freights out-

side)—No. 2, 95c. Rye (according to freights outside)-No. 2, \$1.55.

Flour.-Manitoba (Toronto)-Govern-ment standard, \$10.75 to \$11; Ontario (prompt shipment, in jute bags). Govern-ment standard, \$9.65 to \$9.75, in bags, Montreal and Toronto.

Millfeed.-(Car lots delivered, Montreal twelve large bunches.

prices. The following prices being quoted or live weight to the producers: Chickens, crate fed, 34c. per lb.; chickens, 27c. per lb.; hens, under 4½ lbs., 28c. per lb.; hens, 4½ lbs. to 6 lbs., 30c. per lb.; hens, over 6 lbs., 33c. per lb.; roosters, 22c. per lb.; ducks, 35c. per lb.

Wholesale Fruits and Vegetables.

Apples continued unchanged in price at the extremely high level of a week agobarrels bringing from \$6 to \$14, according to variety and quality; baskets selling at 75c. to \$1.25 per 11 qts.; Western boxes bringing \$5 to \$5.50.

Grapefruit kept stationary at \$5 to \$7 per case.

Lemons varied, selling from \$4 to \$4.75 per case.

Oranges kept unchanged, ranging from \$4 to \$7.25 per case, according to size and quality.

Rhubarb has been quite scarce and firm in price at \$1.25 per dozen bunches. Strawberries.-Louisiana strawberries are now arriving in car lots, and have been of choice quality, selling at 21c. to 22c. per pint box.

Tomatoes.-Florida tomatoes have been an extremely slow sale and varied in quality, ranging from \$5 to \$8 per sixbasket crate.

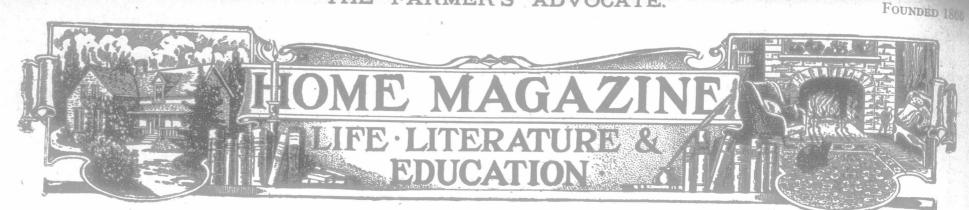
Asparagus.-California asparagus of extra choice quality is arriving more freely, and is gradually becoming lower priced, selling at \$9.50 to \$10 per case of

Potatoes advances sharply, selling at \$1.50 to \$1.65 per bag; some asking \$1.75. N. B., Irish Cobbler seed potatoes bringing \$2.25 per bag.

#### Buffalo.

Cattle .- Prices ruled generally steady on steers last week, 'though a medium quality, lightly finished class of steers ranging from ten to eleven hundred sold very slowly. On fat females of all classes trade was strong and in some cases higher. Bulls of all kinds sold firm to higher, stocker and feeder market showed improvement, and on best milk cows and springers a good, strong trade was had. Canadian steers offered were generally on the medium and half fat order, ranging in price from \$14.50 to \$15 for the best offered. A load of yearling Canadian steers made \$15.60. Best fat heifers landed around \$16.75 and \$17, and best heavy fat cows from \$13 to \$15, some fancy even higher. Complexion of the trade the past week showed general improvement, 'though there is not the de-mand for the half-finished handy steers which have been going for freezers. The Government's contract for chickens just announced, will, no doubt, reduce its need for beef, and these medium kinds of steers are liable to sell slow and weak, 'though a good demand is predicted for good weight and well-finished steers.

Continued on page 774.



## An Easter Thought.

762

"Oh, never a doubt but somewhere I shall wake!" But where and when and how and in

what form? and why do you sleep? if sleep you do! And are you not still awake?-"Public Opinion," London.

#### Beautifying Our Homes. The Perennial Border

BY M. E. BLACKLOCK.

Miss Blacklock is an authority on She is a botanist, and one of her flowers. favorite diversions-but a diversion with very serious intent-is the work of hybridizing. Moreover, she has a seven and a half acre flower farm at Meadowvale, in Peel County, a short run by train or motor out from Toronto,-a farm which is carried on first for love of the flowers and the opportunity to wage an educative campaign in behalf of them, and only in the second place as a commercial venture. So long as it "carries itself" its owner is, she says, "proud."

Perhaps it is opportune that now, in this time for planting, Miss Blacklock's article may be interpolated in our "Reconstruction" series. For the subject of beautifying our homes is not removed as far as some may think from problems of reconstruction. The great majority of homes in Canada are not beautiful at all, from the standpoint of planting. Even those about which some effort has been made at placing flowers, trees and vines, might, as a rule, be made much more harmonious by the exercise of just a little more time and a great deal more en-thusiasm. And, here comes the point: In that little Parliament of Beautiful Things-the Horticultural Society's Annual Convention, whose last meeting was in Toronto in February, the speakers referred, over and over, to the great in fluence of beautiful landscape, trees, flowers and vines, upon character, upon the upbuilding of sweetness, and happiness, and true nobility in the lives of men, and women and even little children. It was pointed out, also, that "the Boys" while in England, have become accustomed to seeing beautiful gardens and will miss them here .- For these reasons, then, and because we believe that anything that makes for contentment and stability can reasonably be included as "reconstructive," we have as great pleasure in giving Miss Blacklock's paper a place in this series as in introducing her wonderful self to the great "audience" of Farmer's Advocate and Home Magazine readers.-

proved to me that all forms of gardening mean, if they are going to be successful, a 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 planting, a hardy 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 weak spots. This frequently proves fatal, as the permanent plants are smothered out. It is better to

flowers of the tall phlox will have grown mysteriously small, and the rhizomes of of the flag irises will be trying to climb over each other in an attempt to reach a fresh supply of nutriment. It is a recessional hymn you will be singing these days; the glory is departing from your border, and it has to be remodelled or it will soon become a wilderness .- This is an open confession I am making, so that no one may be deceived. Even hardy borders do not stay put forever. Like everything else, they wax and wane.

Knowing their little weaknesses in this

respect we should plant them with all

the foresight and intelligence we can

muster, and in laying them out we should

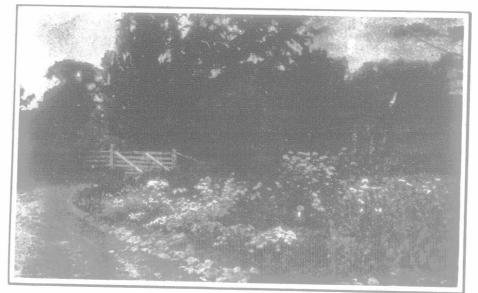
take special pains to plant such things as practically should last a life-time

without division, in places where the

taking up of their neighbors for division.

will not interfere with their health and

happiness, and also where other perma-



#### The Beauty of the Winding Driveway. A bit of Miss Blacklock's garden at Meadowvale, Ont.

have patience or else be very careful in your choice of supplementary plants, using such things as gladioli, or anything else of slender, upright growth that does not shade nor crowd out its neighbors.

The second year you will begin to be both delighted and proud of your hardy border if you have had anything like luck, and the third year if you are at all human, you will be bubbling over with joy and fairly bursting with pride. I wish I could conscientiously stop here, but honesty compels me to add that by the

nent occupants of the border will not rob them of their fair share of light, air and nourishment. Shrubs, paeonies, canyour plan for your border put in your permanent things first.

I am taking it for granted that you are going to make a planting plan, as it is the only royal road that I know of to get good results. You can buy, at any stationer's, paper that has waterlined inch squares upon it; these are subdivided again into tiny squares one hundred to the inch, so that drawing a plan to scale is a very easy matter. I generally make mine to the scale of five feet to the inch-4 of the tiny squares thus being equivalent to one square foot.

First, decide whether you want straight edges to your border of whether you prefer the curved line that gives you little bays and promontories where you can have small, secluded bits that come upon the beholder as a surprise. Just here I may say that it takes more artistic skill to make a really beautiful curved border than a straight one, but it is capable of being the more beautiful of the two if artistically carried out. I have gone rather softly lately in advising anyone to try curves unless I am quite certain that they have a feeling for artistic effect; otherwise the result may be a border with a sort of button-hole edge, done in scollops of mathematical exactness, which is simply a horror. Long and narrow gardens 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, etc., and curving around a little into the side borders. The width of the side borders depends on the width of the garden of course; in some narrow gardens no more than two or three feet on each side can be spared for them, and it is an exceedingly 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 a restricted amount of room. I am not advocating narrow borders, far from it; where land is plentiful let the border be of generous width, 10, 15, 25 to 35 feet, the latter if possible; then you can have grand groups of shrubs as a background and the question of planting for succession of bloom need not worry you unduly, as there is plenty of room to have something coming on all the time, even if there is also something going off. But the possessors of such unlimited space are few compared to the possessors of borders

APRIL 17, 1

and they will middle distar

distant colors warm colors l full sunlight, shady position

are far more e

of it. Having your different run over in yo that will give list of them. -The first to down on a sh its name make of blooming bloom. Next, shade, and an want to know the different pa done and you number and di you are famili me-not and cr edge of the bo delphiniums fo there are not blue as the fo delphinium, m into the laver through all the you have your I so that it can out the plants that will be k years-and pla these will be y I spoke of befo Planting and in fair-sized gr conceded to be -spot plantin such a thing process too wonderful show and a depressin Very few pla of time, they ha ness, and when value depends this must be l very many pla growing simply various day hemerocallis; also useful in th are most gracef foliage also con

soft grey leave and the hoary pure white of blue grey of th day lily and of grasses-even southernwood equally old " grass are most used.

I once saw a ribbon grass at of the old purp was so beautifu for over twent am afraid I rath having bred con quent and ill-a Do not forge according to the especially the pe it is sometimes a closely for imme every other one It is well to retall and stately the making of totally unfitted for instance, a gr known as verba would be a delig candelabra of s majestic growth plenty of space whereas in a sm ridiculous and u man does seated quite out of pla as they are, also in a small borde or two may rak but in a large bo when in bloom, a makes an effecti things-though like the rose, me a bed devoted to With a well-t and a good know can be worked know of any me for the winter of fascinating as pl problems will be and the solving o satisfaction.

O get the greatest possible pleasure from gardening we must possess plants that greet us early in the spring-there is no thrill like the thrill of the first snowdrops and the robin's call to the daffodil, "Come up and come out for the spring is about." The song of Solomon is one we can sing in unison, after our long winters, and we greet the sight of the good brown earth with joy and her flower children with thankfulness.

I hope you are all lovers of the hardy garden; if not, please do give it a trial, and if you are not convinced of its power to give enjoyment after say two or three years' experience, why-you can go back to your first love, and 'we'll agree together that we can't ever agree.

The greatest joy of the hardy garden lies in its earliness-the second greatest joy is in its lateness, and the other joys are so many and come trooping along so fast it is not possible to enumerate them; they are studded along the months like jewels.

I will not try to persuade you to begin a hardy border by telling you it is the easiest form of gardening-at one time I really believed it was, but experience has



Blue Larkspur and Madonna Lilies. In Miss Blacklock's garden at Meadowvale, Ont

time the fourth year has passed you will didum and other lilies (and numerous find a "fly in the ointment" and your pride waning a little. Things will be overcrowded in spots, seedlings that you were too weak and soft-hearted to eradicate will be spoiling the effective groupings you so much admired; grass will have taken possession of your clumps of pinks perhaps, or interwoven itself in an exasperating way amongst the smaller alpines on the edge of the border; the

other things) come under the head of "permanent". Shrubs are ravening wolves in the way of stealing nourishment from their neighbors, therefore, such things as delphiniums, foxgloves, hardy asters and other things that require frequent division lilies, etc., at least six feet away, which allows for a shrub to attain full growth without robbing them-so in making

from two to five feet, and it is to these that one's sympathy goes out as their difficulties are so much the greater.

Having come to a decision as to length, width, curved or straight edges, the next thing to decide on is how to arrange one's 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 also have this effect to a lesser degree. The strong, warm colors such as reds and deep yellows give an effect of nearness. Masses of white and creamy yellow flowers and grey-leaved plants can be used to separate such colors as will not readily harmonize. Scarlet can be run into orange and orange can be run into bright yellow, then paler yellow can be followed by purples and lilacs, and the latter will blend fairly well with the magenta pinks with a little careful shading, and as there are numbers of flowers of this color that are extremely useful as well as beautiful it is a mistake, to my mind at least, to try to do without them. In fact, I believe a very beautiful pink garden could be made by using nothing but the various shades of magenta pinkfor those whose taste runs to gardens of one color. On no account try to place the salmon pinks or scarlets near the magenta pinks, or the discord will set your teeth on edge. The magenta pink can be merged into lavenders and blues with the aid of a few grey-leaved plants,



your border put in your igs first.

g it for granted that you nake a planting plan, as it yal road that I know of to ts. You can buy, at any per that has waterlined inch it; these are subdivided y squares one hundred to at drawing a plan to scale matter. I generally make le of five feet to the inchlares thus being equivalent

whether you want straight border or whether you ved line that gives you promontories where you , secluded bits that come lder as a surprise. Just that it takes more artistic a really beautiful curved straight one, but it is the more beautiful of the lly carried out. I have ly lately in advising anys unless I am quite certain a feeling for artistic effect: sult may be a border with ton-hole edge, done in ematical exactness, which rror. Long and narrow erally more effective with ders and a deep one at the ssed with shrubs and the s, such as delphiniums, g around a little into the e width of the side borders width of the garden of narrow gardens no more ee feet on each side can em, and it is an exceedproblem to plant such so that they will be at all h it is wonderful what e people can get from such unt of room. I am not ow borders, far from it; entiful let the border be h, 10, 15, 25 to 35 feet, sible; then you can have shrubs as a background of planting for succession ot worry you unduly, as room to have something e time, even if there is going off. But the unlimited space are few possessors of borders feet, and it is to these athy goes out as their much the greater. a decision as to length, straight edges, the next is how to arrange one's ish to add to the apyour border, place the ar end of it-they look er off than, say, a mass ld; purples and mauves ect to a lesser degree. colors such as reds and an effect of nearness. and creamy yellow leaved plants can be such colors as will onize. Scarlet can be nd orange can be run then paler yellow can ples and lilacs, and the fairly well with the h a little careful shade numbers of flowers of extremely useful as is a mistake, to my y to do without them. a very beautiful pink ade by using nothing des of magenta pinkste runs to gardens of account try to place or scarlets near the the discord will set The magenta pink avenders and blues ew grey-leaved plants,

#### 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 and also blend best in full sunlight, the delicate ones in more tode rostitune. Masses of a color shady positions. Masses of a color are far more effective than mere patches of it. Having settled where you want your different colors the next step is to run over in your mind the different plants that will give them to you, and make a list of them. Take blues, for example. -The first to come to your mind dot down on a sheet of paper, and opposite its name make a note of its height, date of blooming and the duration of the bloom. Next, whether it likes sun or shade, and any other details you may want to know. By ruling columns for the different particulars this can be quickly done and you will be astonished at the number and diversity of blue flowers that you are familiar with,-from the forgetyou are familiar with, —from the forget-me-not and creeping speedwells for the edge of the border, to the anchusas and delphiniums for the back rows—though there are not very many of as pure a. blue as the forget-me-not, anchusa and 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 so that it cannot escape, you can sort out the plants and shrubs of each color that will be kept in the same spot for years-and place them first on your plan; these will be your permanent plants that

I spoke of before. Planting and, therefore, first planning in fair-sized groups of irregular outline is conceded to be the most effective method -spot planting the least so. There is such a thing as carrying the massing process too far—the result being a wonderful show of bloom at one time and a depressing lack of it at another.

Very few plants flower for long periods of time, they have their season of gorgeousness, and when that is past their decorative value depends on their leaves entirely-this 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 hemerocallis; many of the iris tribe are also useful in this way, and various grasses are most graceful. . . The color of the 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's day lily and of the blue lyme and other grasses—even our ancient friend the southernwood or "old man," and the equally old "live-for-ever" and ribbon grass are most effective when skilfully used

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 frequent and ill-advised use in the old-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 remember that some very tall and stately plants that are positively the making of a long, wide border are totally unfitted for short, narrow ones; for 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 ridiculous and uncomfortable as a huge man does seated on a little, frail chair,quite out of place. Paeonies, gorgeous as they are, also take up too much room in a small border—(if planted at all, one or two may take the place of shrubs), but in a large border they are magnificent when in bloom, and afterwards the foliage makes an effective background for other things-though to my mind the paeony, like the rose, merits a garden, or at least a bed devoted to it exclusively. With a well-thought-out color scheme and a good knowledge of plants, wonders can be worked on paper, and I do not know of any more delightful occupation for the winter evenings. It is quite as fascinating as planning a house, and the problems will be found just as perplexing and the solving of them give just as much satisfaction.

#### THE FARMER'S ADVOCATE

The actual planting from a plan is not

as difficult as it looks, and you can, with

the aid of some garden lines placed length-

wise of the border five feet apart and

several 5-foot sticks, get an idea of dis-

tances from which you can judge where to place 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

correctly in that much space at a time-a few sticks to use as dummies will often

prove useful. I almost forgot a very

important item-the preparation of the

soil. This requires to be very deeply dug

and heavily manured, trenching the fall

before planting and placing plenty of

manure in the bottom of the trenches, so

that the long-rooted plants can find some-

thing to feed on when they begin to grow.

This will encourage them to send their

roots down instead of spreading near the

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

A quest of river-grapes, a mocking thrush, A wild rose or rock-loving columbine,

you can say with Emerson:

My garden spade can heal. A

Salve my worst wounds.'

"All my hurts

woodland walk,

## **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, Glanced toward the ground, then tossed

its head and cried, Behold how tall I am, how far the earth!' And, boasting thus, it swayed in scornful mirth.

"The tallest pine tree in the forest raised Its head toward heaven, and sighed the while it gazed;

'Alas, how small I am, and the great skies how far,

What years of space 'twixt me and yonder star!'

"Our height depends on what we measure

If up from earth or downward from the sky.'

To-day a friend of mine told me about a talk she had not long ago with an



#### An Easter Lily Field in Bermuda Island. Seven hundred miles from New York City.

Dr. Cody's Plans For The aviator. He told her that once when he Schools.

R. Cody's somewhat anxiously awaited speech, as Minister of Education, in the Ontario Legiswas made on April 8th, on the occasion of the second reading of the Bill for Consolidated Schools.

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 up, lest he "lose his head." to talk about remembering God every day and all day, but it is not an easy thing to do in the rush of a busy life.'

763

That is quite true, but-though we fail again and again—we must never give up the fight. Just think what the world would be like now if our soldiers had given up in despair when they were driven back dav after dav!

As the world springs up gaily in its new and eager life, after the winter torpor, so we may make a fresh start every day. often get letters from melancholy Christians who think they are making no progress. Sometimes they are in despair, thinking that they may have committed "the unpardonable sin."

Sometimes the depression is more physical than spiritual, caused by a sluggish liver, or by too little exercise, or lack of fresh air and sunshine. Sometimes the depression is caused by looking too constantly at one's own soul.

Read the Gospels and you will notice that our Lord was constantly speaking of the Father and to the Father, and His hands were full of the Father's gifts which he wanted to share with everybody. If you are feeling discouraged and depressed look away from yourself entirely. Self-pity is cowardly weakness. Turn your back on your own troubles and don't sit down gloomily to think about your sins. Bring them humbly to the foot of the Cross and leave them there. Christ has power to forgive sins and to cleanse our soiled souls; let us accept His cleansing thankfully, and rejoice because our sins are forgiven and our debts paid. Is it reasonable to fret miserably over a receipted bill?

This evening a paper was put in my hands which contained the following

legend—a story of the middle ages. "An angel was sent to Satan with the message that God meant to take from him all the temptations with which he had led men astray. To this Satan resigned him-self, because he was compelled to do so. But he begged of the angel that he should be allowed to keep one, and that a trivial one. 'Which?' asked the angel; and Satan answered 'Depression.' The angel considered that depression was only a very small sin, so he went back to heaven leaving it behind him. 'Good!' laughed Satan, as the angel vanished, 'in this one sin I have secured all.' "

What is depression but faithlessness! If we really believe that the all-mighty God is our loving Father we shall know that our souls and bodies are absolutely safe in His keeping. We shall be happy about our own future and about the future of His other dear children. When our Lord was leaving His chosen friends, as sheep in the midst of furious wolves, He said calmly: "They shall never perish, neither shall any man pluck them out of my hand. . . and no man is able to pluck them out of my Father's hand. I and my Father are one.

To be afraid-for ourselves or othersis to doubt His word. His power is boundless and His love cannot be dim-Though we forget Him He will forget us. If men can change ned. never discarded refuse into valuable treasure. surely God can work mightier miracles and make shining saints out of blackest sin-ners. I read in the "Outlook" for January 6, 1915, that "the National As-sociation of Waste Material Dealers, assembled in New York at the end of the first year of business, reported that the value of the fragments gathered annually in the U.S. amounted to seven hundred million dollars. All of this wealth was created out of waste." The seeds of the cotton plant, which used to be burned as refuse, are now valued at about fifty million dollars." Cheer up! You are of infinite value in God's eyes. He may not show His love by indulgence but by lessons which are hard to learn-but He never makes mistakes; so there is every reason for you to be glad as you walk through life with eyes lifted to His face. In the glory of the spring sunshine the house, which looked reasonably clean in the winter, calls out for its spring renovation. The earth is dressed in robes that are fresh and new, and none of us want to look shabby and old-fashioned. Let us hold up our souls to the light of God's Presence. The dark corners where sins of depression, fault-finding, thanklessness, etc., have been lurking unnoticed—should be thrown open for the Master's inspection and cleansing. This is what one person says about his plan of soul restoration: "Now and then I take my soul out of its cage. I smooth its wings and brush away the dust. Then I throw it up, to see how high it

While not forshadowing any drastic change, the Minister gave notice of many reforms which he favors. Important items that affect the rural districts especially, look to the establishment of libraries in rural districts, and increase of the grants to raise the salaries of rural teachers. Also legislation is to be introduced to provide for peripatetic teachers -i. e., teachers going from place to place -in sparsely-settled regions. The most outstanding measure, perhaps, looks to 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 tention to manual training and household science in all schools; the combination of grammar and composition; special training for inspectors; less physical and scientific goegraphy in elementary classes; an improved and more practical arithmetic course; hot lunches for rural 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.

Waiter.—How will you have your steak, sir?

Minister (absent minded).-Well done, good and faithful servant.-Awgwan.

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 sought God-at first. "He was marvellously helped, till he was strong. But when he was strong, his heart was lifted up to his destruction.

That story has been repeated many times. It is dangerous to rise far above one's fellows, unless the eyes are lifted up to God, who is infinitely high. It was a conceited attitude for the Pharisee to 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 his *heart* was turned earthwards; whereas the publican, who dared not lift up his eyes, was fixing his heart on God. Words of self-depreciation are worth-

less, 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 very well know.

From the height of perfect Manhood our Elder Brother looks down and says to us, His weak followers, "Lift up your hearts." Let us answer, with steady purpose: "We lift them up unto the ourpose: Lord." Let us fix our eyes on our Master's face so that He can guide us with a look.

You may answer sadly: "It is very easy

ostentation. so that the whole church

must know some personage was entering.

exclaimed, to myself, and was gratified

that he sat in such a position that I

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 over-much,

and a thin-lipped curved mouth that reminded me of "Pinky's" "rosebud."

were very fine birds indeed, in very fine

feathers; but neither among them nor

among the young ladies in the transcept

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 conservatory

plants they seemed to me, and I could

not think of them but in a setting of

velvets, and furnishings, and candles

alight in candelabra, as in my uncle's

house, while the very name of Barry was

sufficient to call up, along with her, all the

joyous, wild beauty of Nature, than which

nothing else in all this world, 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

than my cousins who sat beside me in

ed Nora to me, in the slight confusion

caused by its entrance, and then, as the end of it came in sight, "Yes, Dr.

Strachan's going to preach."

'Here comes the processional!" whisper-

the long pew.

The ladies who accompanied him

could observe him closely

"So that's Sir Francis Head!"

can go. It flies up above the housetop, it circles round and round. It settles on a neighboring tree. It looks up, but the sky is so far. It looks down, the earth is so near! It is hard to soar, it is easy to descend; and so in a little time my soul comes fluttering down to me, and creeps into its cage again. My hope is in the Holy Dove, the Spirit of God Himself, that comes down to earth and bears my soul upon its wings to heaven."

The duties, cares and pleasures of ordinary life may-for a time-crowd out the remembrance of God; but, if the spirit often flies to its home in the Father's heart, it will come back refreshened and glad. The soul begrimed with earth's dust discovers that it has wings like a dove, and can fly away from care into joy, from weariness into rest, and come back glorified. "Though ye have lien among the pots," said the Psalmist, "yet shall ye be as the wings of a dove covered with silver, and her feathers with yellow gold.'

"To stretch my hand and touch Him Though He be far away; To raise my eyes and see Him Through darkness as through day; To lift my voice and call Him— This is to pray!

DORA FARNCOMB.

#### Gifts for the Needy.

"M. Jones" will be glad to hear that the parcel she sent for Serbian Relief "has gone overseas to the destitute Serbians. During the last week I received \$2.00 donations for the needy from "Ray," Mrs. K. and R. M. P., also fifty cents

from G. T. H. Sunday-school papers, and other literature for the shut-in, have arrived from

many readers. These will be greatly appreciated by my sick friends. Thanks to you all!

DORA FARNCOMB, 6 West Ave., Toronto.

#### About Easter.

BY JESSIE M'CLURE. It is confusing to some people to find that the date at which Easter comes is not a fixed one. For instance, it may be in March or in April, early or late in the spring. We should know why the date of this festive changes. Christmas is always December 25th, but we have to look up calendars or almanacs to find Easter. The word Easter is most probably derived from "Easter," the name of a Saxon goddess whose festival was kept about the same time as Easter. The word "Eastre" literally means "rising," or "to rise.

The sun crosses the equator on 21st March, and we have then the spring equinox. Easter Day is always the fir st Sunday after that full moon which comes upon or next after the 21st of March. which was the beginning of the old church year, the full moon being understood to to be (though not accurately) the 14th

**Our Serial Story.** 

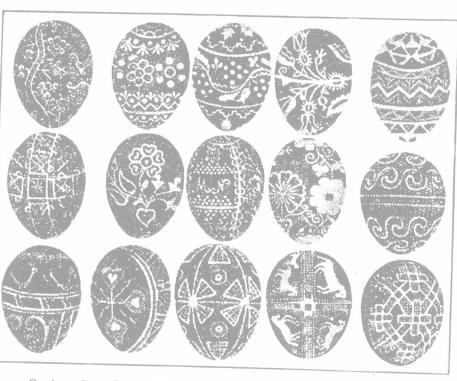
The Forging of the Pikes. A Romance Based on the Rebellion of 1837.

Serial rights secured by The Farmer's Advocate and Home Magazine.

#### CHAPTER XIX. Concluded.

But at last the handshakings were over, and we entered the church, I well pleased that it was still early enough so that I could look about at the people in the pews and as they came in. Some of them I already knew by sight, for in a place like this celebrities are soon pointed out; and any deficiency in my knowledge in regard to the rest was rectified as rapidly as might be by Nora, who kept whispering to me behind her prayerbook until set in place by a look from her mother. So I soon came to know where sat the Baldwins, the Powells, the Jarvises, the Ridouts, the Cawthras, the Boultons and many others, including the Chief Justice Robinson, who is one of the handsomest men I have ever seen, very "patrician," as Kate says of him, with clear-cut features and a beating that might well become a prince of any land

Especially was I interested in looking at the face of Mister Baldwin of whom I have heard so many good words spoken as long as I remember, and I found his



Curious Samples of Easter Eggs Decorated by Peasant Women in Brittany, Western France.

expression very kindly and benevolent, ---Whereupon once more I had

FOUNDED 1866

he was just a man of great commonsense, who argued-without much eloquence, it is true - for a sane wellregulated life. When the sermon was over, and I tried to sum up what The Schoolmaster would have thought of it knew he would have said that it lacked vision". -- As for me I have no great knowledge of these things, and less experience, and so perhaps, am no rightful critic. But it was hard for me to connect the reverend doctor with the Family Compact's doings in the fashion in which I have heard him represented.

On the way home Uncle Joe walked with me.

"Well, boy, what did you think of the discourse?" he asked. "I liked it very well," I said.

"What! And you didn't get even a glimpse of horns or hoof?"

"Never a glimpse," I laughed. "If the Reverend Doctor has them he keeps them pretty well covered.

Evidently my uncle admires the Rector with all his heart. "There isn't a man of more ability in the place!" he said, quite enthusiastically. - "There's no molly coddle parson for you, with eyes rolled up and tongue dingin' out ancient history until ye're scunnered, with it, and no interest at all in anything but the Church. Is there anything to be done about the hospital he's there. . Go into the schools almost any day in the week and you'll likely find him there. . there a patriotic meeting called, he's right on the spot. . Is there a knot in the Legislative Council that needs to be untied, he's the one to do it .-- Yes, that's a fact, and don't you smile, you young spalpeen, or by the powers I'll knock you off the sidewalk!"

At that I burst out laughing. "I wasn't smiling, sir," I said, "not even a little bit." He gave a little "Ahem!" and I saw

that his merry blue eyes were twinkling. "You weren't, hey? All right.—You 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. Ginger and pepper, by Jove!-Pap flavored with ginger and pepper! That's a good one, but you know what I mean. Now, to return to the Doctor,-he's feathered his nest, of course. But he's a financier, man,-a financier! How many of 'em wouldn't do it, with his ability? Tell me that? And it's the same 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 in Upper Canada better for Toronto than this same little man you heard preaching this morning!

'I quite believe it, Uncle," I said, "but what about the rest of the country?"

"Oh there's a lot of rapscallions all over the country that 'ud be making a howl anyway. You can't put city advantages 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 than lot's of 'em. We come to blows, politically speaking, he and I, every time we meet, though it hasn't gone any further than that yet, thank the Lord! —he could roll me around like a plum pudding. -But he at least has the sense to stay home and not go trapezing about on platforms, or waving a fool motto in a procession. . Tear an' ages, Alan, but it sets me rampagin' to see those fool mottoes! They make me know just how 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.

#### APRIL 17,

dinner parti will Which my uncle is to talk polit I am, and i long off the his temper me soundl are like a never failed telling me for me if I h

> I hold it he has nev drillings in knows that s country, as Indeed it so to think o boys practic little hole themselves a the whole m even laughe may be, how fears more and the felle Such prej are all blu says, is held Justice R Hagerman, others, and also since he troops. I ha my uncle, t Reformers h and especi Doctors Ro whom he k though far f way that t by the Gov of Macken rather disast while pressi

he affirms. "But, of "there must so long as the -which sou considers that by political being create may be so the more do

place.

"Why don public affair the other ev fire in the you run for "I've no boy," he sa decided to sick bodies. I have four all my time-Sometimes 1 instead of or all on the talent for word I like doctoring-—and his e express my occasion. I laughed continued to Then, the he turned

764

of the calendar th. If the full moon comes on Sunday, Easter Day always is the Sunday after, and the Friday preceding it is, of course, Good Friday.

Good Friday is so named because it was a good thing for the world that Jesus died that day upon the cross for all peoples.

In the ancient church the celebration lasted eight days, but in later times it was limited to two or three days. It was a festival of pleasure; alms were given to the poor and slaves were often freed. Daily services were held during the whole week before Easter, and on Easter Day the people greeted each other with a kiss, saying, "He is risen," to which the reply was made, "He is risen indeed." This custom is still kept up in the Greek Church. In Russia to-day even the Czar will not break with this ancient custom but will so greet and salute even a humble peasant.

The custom of exchanging eggs as a symbol of resurrection or renewed life is very old, as is also the custom of eating eggs on Easter. When we think that the egg contains a new life, the germ of which is carefully hidden away beneath the shell, we are reminded that by His glorious and triumphant rising from the tomb Christ opens up a new life for us beyond the grave. For it is written:

'But now is Christ risen from the dead and become the first fruits of them that slept."-Onward.

reports of him. Of Doctors Rolph and Morrison and Mister Bidwell I saw nothing, and, indeed, have forgotten since to ask whether they go to this church, although I intended to

And then I spent a moment or so in looking at the military officers, who sat n a long pew reserved for them on the West side of the Governor's, the corresponding one on the east side being reserved for such members of the Assembly as choose to use it while the House is in session. The military officers present were very well set up men, very brilliant and soldier-like in their scarlet uniform, with braid and epaulets, but they were comparatively few in number because of Sir John Colborne's having had all of the militia removed from here to Kingston, (as I have already noted) for what reason no one knows, although it is said by some that he wants to have them more at hand in case of an open outbreak in the Lower Province.

So I sat there, all eyes and ears, and more than once I found it hard to realize that I was now actually looking, with my own two eyes, upon so many of those men of whom I have so long heard-of especially on the Lieutenant-Governor's pew lest I should miss the first sight of him. I need not have feared that, however, for at the very last minute he came in, with his company with great air and

sharply, for of this man also I had heard much

"I'm right in the midst of the Family Compact,' I said to myself, wondering almost, that these men looked like ordinary kindly citizens instead of like ogres and ravening wolves as my boyhood fancy, in earlier years, had pictured them.

"Keep an open mind," my father had said before I left home, qualifying it with "But, mind you, don't get swept off your feet," and so, when the service was over, which I had much ado to follow, and could not have followed with credit, had it not been for Nora's surreptiticus tuggings at my coat-tail and nudgings against my arm, I settled down determined to miss no word of the

I may here note that "The Honorable and Right Reverend John Strachan, D. D." is a somewhat short man, with a rather fine head and a very unaffected manner, not at all the sort of personage one would expect to see riding about in a grand coach fit for the Pope, and living in a mansion which is a real palace compared with any other house in Toronto. I saw it the other day, when down by the bay, and admired it much, and especially the very fine grounds which

Nor when he preached could I see anything amiss with his doctrines, or anything that could have offended even The Schoolmaster himself. To all appearance Uncle Joe nodded. "He's Scotch," he said, "and canny, thank the Lord! And I'm glad to see, boy, that you're a little like him in that respect. Keep your eyes open my boy, and make up your own mind about things.

You'll meet more of 'em-these 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 sort after all.

And then he raised his cane, which was clicking along over the stone flags and made believe to poke me with it.

"But by the Lord, young fellow," he added, "if you dare to open your yap and get off any radical stuff at my

his mouth an "Of course sembly need let off the st

the job." "I under enough spot, "You're r

to attend all a part some day, uncle can' ing himself on the wrong

> A few m writing the and went to at the bay, t like some tr flickered w than the lar covering o the withered this picture external ey see when the imagination it was that

an of great commond-without much eloe — for a sane wellhen the sermon was to sum up what The ld have thought of it ave said that it lacked r me I have no great ese things, and less perhaps, am no rightwas hard for me to end doctor with the doings in the fashion rd him represented.

ne Uncle Joe walked

did you think of the ell," I said.

bu didn't get even a hoof?" se," I laughed. "If or has them he keeps

overed." le admires the Rector "There isn't a man the place!" he said, ally. — "There's no son for you, with and tongue dingin' y until ye're scunand no interest ng but the Church. ing to be done about there. . Go into any day in the week d him there. . neeting called, he's . Is there a knot ouncil that needs to one to do it.-Yes, on't you smile, you by the powers I'll dewalk!"

it laughing. , sir," I said, "not

'Ahem!'' and I saw eyes were twinkling. y? All right.-You ne foot in it again. ap you were brought politically speaking. y Jove!-Pap flavored pepper! That's a low what I mean.

the Doctor,-he's f course. But he's a financier! How n't do it, with his ? And it's the same em that that pestig Mackenzie's been ten years! They're nciers! And they're There isn't a man petter for Toronto e man you heard

t, Uncle,'' I said, st of the country? of rapscallions all at 'ud be making u can't put city the backwoods in Lord bless you, grow! It has to 'em want to run a y've well learned ing about your e reasonable than to blows, political l, every time we gone any further the Lord! -he e a plum pudding. the sense to stay pezing about on i fool motto in a ages, Alan, but to see those fool he know just how a red rag walloped nim."

#### APRIL 17, 1919

## dinner parties I'll disown you! That I

will! Which alarmed me not at all, for my uncle is good enough often to lead me to talk politics with him, young though I am, and indeed, finds it hard to keep long off the subject, albeit he has lost his temper once in a while and berated me soundly. His tempers, however, are like a flash in a pan, and he has never failed to apologize afterwards, telling me that he wouldn't give a fig for me if I hadn't opinions of my own.

I hold it much to his credit, too, that he has never questioned me as to the drillings in our district, although he knows that such are afoot all through the country, as does almost everyone here. Indeed it seems to me almost pathetic to think of The Schoolmaster and the boys practicing away after nightfall in the 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 more the interference of Big Bill and 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 Hagerman, Judge Jones and many others, and must be by Sir John Colborne also since he has felt safe to remove the troops. I have taken occasion to question my uncle, too, as to what the leading Reformers here have to say about it all, 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 Mackenzie's doings, and, indeed, rather disassociate themselves from him, while pressing the justice of much that he affirms.

'But, of course,'' concludes my uncle, "there must be such differences of opinion, so long as there are two political parties, -which sounds to me as though he considers that opinions are manufactured 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 public affairs, Uncle Joe?" I asked him the other evening, as we sat before the fire in the living-parlor. "Why don't you run for the Assembly?"

"I've no taste for the like at all, my boy," he said. "Twenty years ago I decided to give my life up to healing ick bodies and I've the said it sick bodies, and I've never regretted it. I have found that a work that needs all my time—and more if I could find it. Sometimes I've wished I had ten bodies instead of one, so that I could send them all on the job. —Besides, boy, I've no talent for politics—'statesmanship' is a word I like better. I'm too likely to

#### THE FARMER'S ADVOCATE

upon the restless bay and white ground, but away over the dark hills and forests, -on and away until my soul hovered first above the Golden winged woods, then saw the dear farm with the little home in the heart of it, all dark in the 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 sitting there, side by side, before the 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. She was stringing wild apples for the 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 heart, and I knew that the memory 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 stopped ere it had well begun? . . I saw 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 with the little vine of green. And then she disappeared, and I saw only the misty troubled bay and the ghostly snow. "Some day she will come to 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 watch, looking into the face of every 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.

Turning from the window I lighted my candles once more, that I might write Now I must go to my bed but I fear I shall not sleep.

To be continued.

## The Fashions.

#### How to Order Patterns.

Order by number, giving age or measurement as required, and allowing at least ten days to receive pattern. Also state in which issue pattern appeared. Address Fashion Department, "The Farmer's Advocate and Home Magazine," London, Ont. Be sure to ign your name when ordering patterns. Many forget to do this.

When ordering, please use this form:-Send the following pattern to:

Name..... Post Office..... County.....

Province

2637. Girls' Dress. Cut in 4 sizes: 4, 6, 8 and 10 years. Size 8 will require 47% yards of 27-inch

material. Price, 10 cents. 2793-2796. Ladies' Costume.

Waist 2793 cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. 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, for a medium size. Width of skirt at lower edge is about 2 yards, with plaits extended. TWO separate patterns, 10 cents FOR EACH pattern.

2795. Girls' Dress.

Cut in 3 sizes: 12, 14 and 16 years. Size 14 will require 41/2 yards of 36-inch material. Price, 10 cents.

2774. Ladies' House Dress. Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 5 3/8 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, 3, 4 and 5 years. Size 4 will require 17% 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. Cut in 4 sizes: 2, 3, 4 and 5 years. Size 4 requires 35% yards of 27-inch material. Price, 10 cents.

2767-Ladies' Combination.

Cut in 4 sizes: Small, 32-34; Medium. 36-38; Large, 40-42; and Extra Large, 44-46 inches bust measure. Size medium requires 31/2 yards of 27-inch material, Price 10 cents.

2320-Girls' Dress with or without Jumper.

765

Cut in 5 sizes: 4, 6, 8, 10 and 12 years. Size 10 requires 234 yards of 44-inch material for the dress, and 13/8 yards for the jumper. Price, 10 cents.

#### 2751-Ladies' Dress.

Cut in 7 sizes: 34, 36, 38, 40 42, 44 and 46 inches bust measure. Size 38 requires  $5\frac{1}{2}$  yards of 36-inch material. Width of skirt at lower edge, is 134 yards.

Cut in 4 sizes: 2, 4, 6 and 8 years. Size 4 will require  $2\frac{1}{2}$  yards of 40 inch<sub>2</sub>

Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 5 yards of 44-inch material. The dress measures about 23% yards at the foot. Price, 10 cents.

2759-Girls' Dress.

Cut in 4 sizes: 8, 10 12 and 14 years. Size 12 will require 41/2 yards of 27-inch material for the dress and  $2\frac{1}{4}$  yards for the jumper. Price 10 cents.

2764-2761-A Trim Business Costume. Waist 2764 cut in 7 sizes: 34, 36, 38,, 40, 42, 44 and 46 inches bust measure. It requires  $2\frac{3}{4}$  yards of 36 inch material for a medium size. Skirt 2761 is cut in 7 sizes: 22, 24, 26, 28, 30, 32 and 34 inches waist measure. Size 24 will require  $2\frac{3}{4}$  yards of 44 inch material. The skirt measures a little more than 1<sup>3</sup>/<sub>4</sub> yards at the foot. TWO separate patterns 10 cents FOR EACH pattern.

Price 10 cents. 2744-Child's Dress. material. Price 10 cents. 2592-Ladies' House Dress.

2744 2613



clear of being '' I said.

id, "and canny, I'm glad to see, like him in that es open my boy, ind about things. of 'em-these an-while you're I'll have to give on to get even. d'em such a bad

his cane, which the stone flags e me with it. young fellow," e to open your lical stuff at my

my head-in everything except the doctoring-and I'm no speaker, although" -and his eyes began to twinkle- 'I can express myself with fair emphasis on occasion.

I laughed, but said nothing, and he continued to puff at his pipe for a moment. Then, the merry mood upon him again, he turned to me, taking his pipe from his mouth and holding it at arm's length. "Of course," he said, "if ever the As-

sembly needs an extra escape valve to let off the steam, why I might apply for

the job." "I understand, sir, it's a stormy enough spot, at times," I said. "You're right, my boy, You'll have to attend some of the sessions. It's all a part of all a part of your education. Perhaps, some day, you'll be able to do what your uncle can't".—Then, suddenly recollect-ing himself—"But by gad, sir, you're on the wrong side of politics!"

\* \* \* \*

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 light covering of snow that has fallen upon the withered grasses. But not long was this picture present with me for the external eyes become blind and refuse to see when the eyes of the memory and the imagination began to work. And so it was that shortly I was looking, not

Number of Pattern Age (if child or misses' pattern). Measurement-Waist.....Bust. Date of issue in which pattern appeared ....

#### A Mistake About Patterns.

By a mistake in the printing April 3 issue, an old heading was placed beneath "The Fashions."—The prices of patterns are as given beneath the short description of 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 on instructions as to number, size, etc.

#### 2788. Ladies' Dress.

Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 5½ 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 years. Size 10 requires 3 3/8 yards of 36-inch material for the dress, and 1 3/8 yards for the over-blouse. Price, 10 cents.

#### 2642. Ladies' Apron.

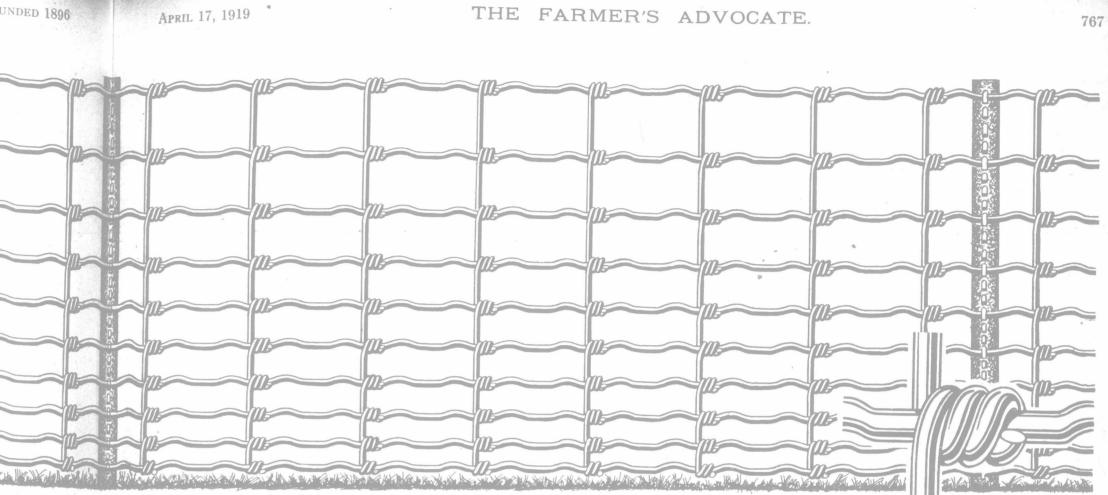
Cut in 4 sizes: Small, 32-34; Medium, 36-38; Large, 40-42; and Extra Large, 44-46 inches bust measure. Size Medium will require 2<sup>1</sup>/<sub>2</sub> yards of 36-inch material. Price, 10 cents.



	<	L.					
766	THE	FARMER'	S ADVOC	CATE.		Four	
Distance						FOUNDED 18	96
DISTANCE BETWEEN BARS-INCHES							
	<b>10</b> -						~
9							
8	115				-p		4
O D							
					m	m	
To a start of the						The second secon	
6	10				m		
0							7
51/2			-p				
	m	m	m				1
5		40	118			-pa	1
4/2		-m	m		0	m	
4		05	m		m	m	1"
3/2		0	m				-M
ANTIONES IN THE FURNING MANY AND THE	n - H	1					P
			The Mark Mark Mark Mark Mark	いきたいたいろいで	AS ALLEY ANY ANY ANY ANY ANY ANY ANY ANY ANY AN	Mrs Haller West	1

# One Solid Wall of Steel ----

Every Inch Made From No. 9 Imperial Gauge Wire Heavily Galvanized



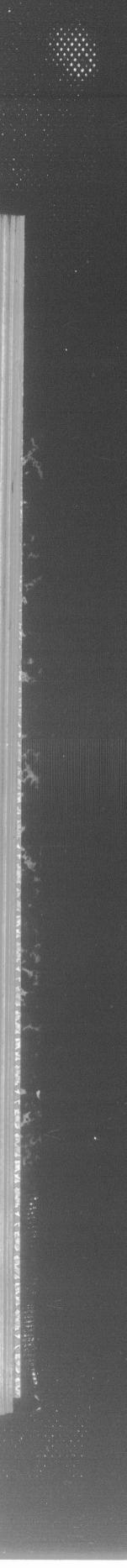
Our improved process makes a Hard, Stiff, Springy Wire. Full Length Rolls, Full Weight Per Rod, Easily Erected.

# Use American Galvanized Steel Posts

They will not rust—will not burn—will not decay. No staples required. Every post represents an Insurance Policy on your stock against injury from Lightning.

Write for Prices and Catalogue.

The Canadian Steel & Wire Company, Limited HAMILTON AND WINNIPEG, CANADA





chair beside the fire.

She was apparently watching the white steam-clouds floating ceilingward, but her thoughts were far away in her Old Ontario home, which she had left just two years before.

All day a storm, half sleet, half rain, had driven against the windows. At sunset it had ceased, but the wind was still high and at every blast the small log-house shook, and doors and windows

rattled. 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 song, and lighting a lantern, carried it to the door, with the glad cry, "Home at last David! The wind whipped her skirts about

her, almost carrying her off her feet, and she drew a long breath as the door again shut out the searching blast.

She lighted the lamp and peeped into the oven. The whole room was per-meated with the savoury aroma of the

hot appetizing food inside. "I'm famished!" David greeted her. "Haven't had a bite since I left. I ran across an old friend from home to-day, -Billie Rogers, you remember him? Used to travel for the"-

Nan nodded soberly. Billie Rogers had never been quite the sort of friend she had wanted David to have.

He took off his great coat, shook the ice from his cap, and washed himself

at the low bench near the door. "Nothing done outside, I suppose—as usual?" he queried from the depths of the crash towel. The red surged into his wife's face and she drew a quick breath. "Nothing," she answered, quietly.

"It's great to be a woman!" he commented drily.

It was the first time he had ever spoken so to Nan, and sensitive as she was, she was sorely hurt.

He was a fine specimen of manhood this muscular young giant, lithe, straight and handsome too. To-night, however, his dark eyes were dull and lustreless, and his mouth lacked its usual smiles of good humor.

Something was wrong, Nan told her-self, and with rare tact she tried to appear blind to the fact. The good supper failed to cheer him

for he ate almost in silence, then rose abruptly and went to the barn. Her work finished, Nan gazed out into

the night.

Everything had been transformed as by a fairy's wand. The alder bushes encircling the little clearing were sheeted in glistening ice; the plowed land gleamed in the moonlight like a choppy sea; the road stretched a broad band of silver.

Overhead ragged bits of cloud flew over the face of the moon, the stars twinkled here and there, but she was he beauty of the scene before her. David had implied that she had not done her share of the work when time and time again he had told her she must not attempt the outside work. What could be wrong! Then the thought of Billie Rogers came to her. If David hadn't reformed she would think—but no! S'e must never even think of such a thing. Had she been herself, she with her bright optimism and sunny nature would never have given the disagreeable speech a second thought. She simply would have attributed it to irritability. But she was not herself lately. Often she cried over the most trifling things and magnified mole-hills into mountains. She turned to the piano and her fingers wandered softly over the keys When David entered, a little later, moody and wholly ashamed, the notes of "Home, Sweet Home" greeted him. He pulled off his heavy boots and stretched his feet to the fire, finally asking, "Homesick Nan?"

FOUNDED 1866

you'd miss both the piano and me. As for these things you have made, I love every bit of them and shall prize them even when we can afford mahogany. Don't forget the work you have done here in clearing the land and building our little home, has done more than develop muscle. I'm proud of your broad shoulders, proud of what you've done.'

"You're an artist, David, no less. Some day we will see the completed picture and to us it will be a masterpiece, well worth all your hard work."

She had drawn his head back against her as she stood behind his chair, and her fingers played in the mass of dark hair

Then gaily, "Do you know what comes in a little more than a week?"

"Easter, of course"-shortly. "More than Easter, David,-our wed-

ding anniversary." "Do you remember the Easter lilies and the big quiet church?" But David did not answer and her

voice ran on quietly. "I can smell their sweetness yet, David,

and ever since that day Easter lilies mean so much to me.

"When we are a little better off, do you know, I shall always have Easter lilies for our wedding-day.

"I was the proudest, happiest girl in the world that day.'

"Weren't you afraid to trust yourself to me after-?--"his voice was husky. Bust she interrupted him.

"Not a bit, David, I knew the day you left me you would keep your word and. win out.

How sure she had been of him! Just now he was not so sure of himself. Today the thirst he had thought dead had come to life again. It had only lain dormant. He knew a fresh battle was imminent. He had been to blame. Why had he not been brave enough to refuse when Billie Rogers had proffered 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! "Now David,"—her voice was coaxing -"I know there is something wrong tonight. Isn't there, and won't you tell me all about it?"

"Yes, Nan, there is. It's money again to begin with. One of my machinery notes falls due in a day or two and since I lost a horse and the frost ruined my crops, I can't pay it. The company won't renew my note as it's the first payment. To-day I tried to hire the money and got turned down everywhere." "Don't worry dear. It will all come right,

someway or somehow. It always does. But David shook his head. "You've more faith than I have, Nan.

Somehow I've lost my grip—lost faith in both God and man."

"Hush David! Don't say that!" And she drew his head back and pressed her lips to his forehead. But before she slept, Nan found the

lue to her husband's up the house for the night she brushed against his inner overcoat. It slipped from the peg and fell to the floor and in hanging it up again she found -a flask of whiskey, as yet untouched. With sudden horror she pushed it from her and overcome with grief and sudden 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.

EGG-n Economy

The difference in cost between an ordinary baking powder and the pure,

## THE GENUINE-ORIGINAL

768



TOASTED

# **CORN FLAKES**

Are sold in the red, white and green package only. Refuse substituted imitations of the "Just as Good" variety and

## Remember

that Kellogg's Toasted Corn Flakes are only made in Canada by

The Battle Creek Toasted Corn London Flake Company, Limited HEAD OFFICE and PLANT: Ont. 19

Without a word his horse. The mo-his thirst for the alike forgotten. Never had the Many turned an

after him, driving seeing the road ov horse, guiding it as A terrible fear his Nan, all he had

APRIL 17, 1919

hurt, how badly, and her!--oh Go yielded!

Again he felt he and heard her wor "Poor little him. brokenly; then field I was! The home-light

for the first time sir was at the door to n

Housing the ja hurriedly he entere Mrs. McCallum, haired, the good ar in sickness and deat

fire over steaming k "What's wrong?" The old lady hel

as she came close t "The Doctor's w better, nae warse. gently; "She was o

chores, silly wean, Luckily 'twas, I go smoke and rin owe a-tryin' tae get tae "Dinna gang u she warned him.

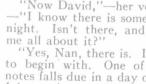
But he scarcely Every word stabb If he could only red the cause of everyt

Nan lay upon pale and drawn wit her eyes as her hush and with one tren face close until her He knew her fear, breath was free from Her fears had been for herself, and wi

content and utter back and closed her "Forgive me dean whispered and she p wise making no sign Dr. Brown foll

His face was very a kindly hand o shoulder after he fears, and bade him He would do all in McCallum, he decla worth her weight i munity. "Just go busy," the Doctor a needed we will call. Going about his w drearily for David.

sees his life pass a he recalled the past. His mother had di





is trivial. It amounts to only a fraction of a cent on each cake you bake. Against this you risk your highpriced flour, butter, sugar, eggs and milk, and your reputation as a cook.

Spoiled bakings not only cost you money, but they waste food. With the heavy Government Standard flours in use to-day, the selection of a strong baking powder is absolutely necessary.

The double-acting strength of Egg-O is needed to make a baking of a light cake from a heavy flour. Try a can and watch your bakings improve. You can use sweet milk, sour milk, buttermilk or water with Egg-O -a different and better baking powder.

#### Egg-O Baking Powder Co., Limited Hamilton, Canada

Nan swall wed the lump in her throat and swung round on the stool. "Why no, David. I wasn't thinking of

the old home, but of this, the new home For a time he sat silent, gazing moodily

"I never should have brought you here," he said at last. "You're as much out of place on a bush farm as that plano of yours is beside my home-made furni-

"Why David, you great silly boy! I am happy as a queen, and own up, some time ago."

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 stood out on his forehead, his limbs trembled under him.

Suddenly his wife's words came to him: "I knew you would keep your word and win out."

Words of perfect trust, they proved his salvation. Raising the flask suddenly he hurled it against the rocks beneath and turning walked swiftly back to town

"Hi David! Hold on!"

Recalled to himself he turned about. A neighbor was racing down a side street. "You're wanted at home, Dave."

"Why, what's wrong?" David faced

him. "Your wife has been hurt. Fell some-way or other. Dr. Brown left for there

wealth uncle educated him. constantly before liking for it grew and it was at first over habit deeply inroote Nan had already and was the one b because of her belief love for her, he cu associates and fled bush farm in New conqueror or die he

When the awful t he fought it out axe i

For one reared in strenuous, but with he stayed by the tas He worked often far utterly exhausted. curse with aching r hands. For weeks town, but finally th won. He ate heart and believed the cu from his blood.

The home he bu wild roses grew at trees sheltered it.

Nan, in face of her met him at T .-- ,and day, in one of the among the Easter 1 fearlessly with his.

What a good con cheering him when h taking the bitter wit hard pioneer life and

When there was p when want faced th

he piano and me. As ou have made, I love and shall prize them an afford mahogany. ork you have done here nd and building our ne more than develop l of your broad shouldyou've done.'

st, David, no less. I see the completed it will be a masterl your hard work." nis head back against behind his chair, and

in the mass of dark you know what comes 1 a week?"

se''—shortly. er, David,-our wed-

er the East<mark>er lilies</mark> hurch?'' not answer and her

sweetness yet, David, at day Easter lilies little better off, do always have Easter g-day. st, happiest girl in the

id to trust yourself s voice was husky. ed him. , I knew the day you keep your word and

l been of him! Just sure of himself. Tod thought dead had It had only lain a fresh battle was been to blame. been brave enough

e Rogers had profg to keep away the of his room at the had only never met er voice was coaxing

omething wrong toand won't you tell s. It's money again

of my machinery ay or two and since he frost ruined my it. The company te as it's the first tried to hire the down everywhere. It will all come right, It always does.' ead.

than I have, Nan. ny grip-lost faith Don't say that!"

d back and pressed t, Nan found the night she brushed ercoat. It slipped to the floor and in he found —a flask ouched. she pushed it from h grief and sudden ure might have in ed her face in her gave vent to the nger be kept back.

Without a word David strode after his horse. The money so sorely needed, his thirst for the burning liquor were

APRIL 17, 1919

alike forgotten. Never had the miles seemed so long. Many turned and gazed wonderingly after him, driving so recklessly, scarcely seeing 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 hurt, how badly, he could only guess, and her!--oh God! What if he had yielded!

Again he felt her kiss on his forehead and heard her words of perfect faith in him. "Poor little Nan!" he whispered; brokenly; then fiercely, "What a brute I was

The home-light glimmered at last and for the first time since his marriage no one was at the door to meet him.

Housing the jaded, steaming horse hurriedly he entered the house.

Mrs. McCallum, motherly and white-haired, the good angel of the Settlement in sickness and death, was busy about the fire over steaming kettles. "What's wrong?" David demanded. The old lady held up a warning finger

as she came close to him and whispered:

"The Doctor's wi' her noo. She's nae better, nae warse." Then she added gently; "She was oot tryin' tae dae the hores, silly wean, and slippit on the ice. Luckily 'twas, I got oneasy at seein' nae smoke and rin ower, and there she was a-tryin' tae get tae the hoose. "Dinna gang up till ye're warrum,"

she warned him. 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!

Nan lay upon the pillow, her face pale and drawn with pain, but she opened her eyes as her husband knelt beside her, and with one trembling arm drew his face close until her lips rested upon his. He knew her fear, and rejoiced that his breath was free from the odor she dreaded. Her fears had been for him rather than

for herself, and with a sigh of mingled content and utter weariness, she lay back and closed her eyes. "Forgive me dear, I was a brute," he whispered and she pressed his hand otherwise making no sign.

Dr. Brown followed him outside. His face was very grave but he laid a kindly hand on the young man's shoulder after he had told him of his fears, and bade him keep up his courage. He would do all in his power, and Mrs. McCallum, he declared, a born nurse and worth her weight in any com worth her weight in gold in any com-munity. "Just go to the barn and get munity. "Just go to the barn and get busy," the Doctor advised. "If you are needed we will call."

drearily for David. As a drowning man sees his life pass as in a panorama, so he recalled the past. His mother had died when he was born.

Going about his work the hours dragged

He had been too sure of himself for though the town like all others was "dry" still he knew dozens whose cellars were well stored. Billie Rogers always carred it, and fearing being laughed at he had slipped the flask given him into his pocket thinking himself strong enough to resist temptation.

THE FARMER'S ADVOCATE

From house to barn, from barn to house he paced, backward and forward, fighting his battle with despair. "Nan must not die," he cried fiercely.

Then with a pang of remorse he added, If she does it's because I'm not fit to keep her.

Was God, he wondered, the loving Father she believed Him or was He a judge, meting out strict justice. In justice she would be taken but no loving Father could deal him a blow like that.

Then David in his trouble became once nore only a boy, a great boy, his heart breaking with sorrow, and lifting his face to the star-sprinkled sky, he prayed, -prayed for strength to overcome his terrible thirst, and that God would spare him the one being in the world who loved him.

Inside Nan was very deep among the shadows but the Doctor and his trusty helper never gave up. Valiantly they battled with Death and with the coming of day a tiny soul was ushered into the world and a life was saved. Outside, faith had been born anew.

On the threshold David paused, electrified. Mrs. McCallum sat in front of the fire a bundle in her lap. The wailing of an infant rose fitfully. With every nerve tingling, shaken and trembling he confronted the startled old lady.

"Will she live?" Something of the anguish he suffered showed itself and her kind old heart warmed to him.

"Surely she will laddie. She's doin brawly. And see, mannie, ye've a wee son, and a fine bairnie he is. Look at the breadth of his shoulders! Is he no fine? It'sa prood mon ye should be this nicht." "I'll just be givin' him a bit bath, but stay, dinna gang up till ye're telt.' The tiny red morsel of humanity gave spasmodic cries as the water was applied by a vigorous hand, and flung out his tiny arms in protest, but little did Mrs. McCallum heed. Had she not handled

babies for forty odd years! Her dexterity was born of experience, and greatly did David marvel as he watched here deftly adjust bands to her liking, smoothing her and straightening

there until in a twinkling the child was fully dressed. Wrapping a shawl about him, she laid him in David's arms. "Take the bairn tae his mither," she commanded.

Dr. Brown had gone, perhaps to snatch only a few moments of rest ere another call should come. Below stairs Mrs. McCallum moved

about voluntarily installed as nurse so long as she should be needed. Tucked close beside his mother, her face against his soft downy head lay Master Babe. Very dissatisfied was he. His tiny mouth searched his blanket up and down continually, and sundry baby grunts told of his displeasure. Finally Mrs. McCallum entered. "I'll just gie him a wee drop of whiskey in some sweetened water," she commented, 'Then he'll sleep.

# A Dish Dav

## 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 of round steak only 890.



51/2 Cents Per 1000 calories Thirty big dishes of Quaker Oats are served for 15c. That's a dish a day for a month. Note how little that 15c will buy in other necessary foods at this writing:

What 15c l	Buys—	In (	Calorie
In Quaker Oats			2800 Ca
In Round Steak			440 .
In Fish About			300 ,
In Veal Cutlets			275 .
In Dried Beef			215 .
In Squash .			200 ,

Measure your foods by energy valueby calories. You will find that each dollar, spent for Quaker Oats buys as much as \$10

769

r day and David bridge just outide rresolute.

in his hand. A rging him on to nd troubles in an maddening thirst t beads of sweat ehead, his limbs

words came to would keep your

t, they proved his e flask suddenly he rocks beneath swiftly back to

he turned about. own a side street. ne, Dave.'' ?'' David faced

hurt. Fell some-wn left for there

A wealthy uncle had adopted and educated him. There was wine constantly before him and when his liking for it grew and he took it to excess, 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 love for her, he cut loose from all his 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.

For one reared in luxury the life was strenuous, but with grim determination he stayed by the task he had undertaken. He worked often far into the night until 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 He ate heartily and slept deeply Won. and believed the curse had been driven from his blood.

The home he built was humble but wild roses grew at the door and great trees sheltered it.

Nan, in face of her father's great anger met him at T -, and on an Easter Monday, in one of the great city churches among the Easter lilies. linked her life fearlessly with his.

What a good comrade she had been, cheering him when he was down-hearted, taking the bitter with the sweet in their hard pioneer life and never flinching.

When there was plenty she was gay; when want faced them she was brave.

But David interposed. "No, Mrs. McCallum, not a drop of whiskey if he cries all night."

The old lady left the room in high dudgeon, muttering something about, 'youn folk thinkin' they kenned mair than th ir elders.

But Nan smiled and understood.

A great Easter lily in full bloom beside her bed greete | Nan when she opened

her eyes on Easter morning. "Is it really real David?" she queried. "Smell and see," and he held the fra-grant blossoms to her.

"Some letters came last night, dear," but you were asleep so I didn't waken

This is from home, I think."

Hastily she tore the letter open. A crisp cheque fluttered out, at sight of which she uttered a glad cry. 'Good-bye to money troubles now,

"Now Mr. Doubter, will you ever doubt again?" "Never," said David gravely.

Nan was still reading the letter. "It's from father," she announced joy-



57 Cents Per 1000 Calories



50 Cents Per 1000 Calories

54 Cents

Per 1000 Calories

75 Cents

per 1000 Calories



You will find that Quaker Oats, in calory value, are six times as rich as potatoes.

You will find that Quaker Oats breakfasts will immensely reduce you food cost.

And they will supply you the greatest food that grows. The oat is almost the ideal food. As a vim-food and a food for growth it has an age-old fame.

Yet the best oat food that was ever served costs only one-half cent per dish.



## With Exquisite Flavor

This is rolled oats flaked from queen grains only-just the big, rich, flavory oats. We get but ten pounds from a bushel.

This selection means delightful flavor, yet it costs you no extra price.

Two Sizes: 35c and 15c-Except in the Far West (3109)



770



fully. "He's so proud of a grandson named for him that he ha forgiven us both, and oh David! Mother has sent a big box of Easter lilies. We'll get them in time for our wedding-day too.

The letter dropped from her fingers and her eyes grew very wistful and 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 Nan," said her husband softly. "They tell of a resurrected faith."

## The Ingle Nook

[Rules for correspondence in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen name is also given the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in stamped envelope ready to be sent on. (4) Allow one month in this Department for answers to questions to appear.]

#### A Great Englishman.

"HANK Heaven for Philip Gibbs!

That was one's thought upon reading some of his recent writings upon the War, about which, now that the upon the War, about which, now that the time for censorship has been passed, the whole truth can be told.—It was grue-some reading, terrible reading. He told, and is telling, week by week, of things awful beyond the words of ordinary men. But Philip Gibbs is not an ordinary man. He possesses a pen of magic that can reproduce for others, not only the scenes upon which he has looked, in all their 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 sense-less glorification.—And so thank God for Philip Gibbel Philip Gibbs!

For it is only by realizing how horrible, 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 happening again. . . The fighting men who come back are, for the most part, 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. . . . But Philip Gibbs has the words 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 ghastly years he walked to and fro 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, with those wide-open eyes of his watching, 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 War for all time in the future with a 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 go everywhere, and to see War itself and not its effects only. The British Government knew Philip Gibbs, and knew that he was to be trusted not to say the wrong word during those days, and weeks, and months, and years of peril. Two weeks ago from this time of writ-ing I sat literally at his feet, for I was in the front seat not ten feet away from him, and heard him tell something of the story, dwelling chiefly upon the indomitable and wonderful courage of the Boys, and the bits of comedy as well as tragedy along the way. He could not present the whole picture, with all of its ghastliness and sickening agony before that audience of women and children as well as men; and I wondered at his facility in selecting the right word and the right incident. But when he sits down to write there are no such restrictions, and so you, who had not the chance to see him and hear him personally, have yet the opportunity to get everything he has to say. Several of his books have been already published and soon there will be another-the last, perhaps of his volumes of the Great War -which will tell the whole story with nothing left out, even as it is being told to-day by those papers which are con-

#### FOUNDED 1866

nected with the syndicate through which his writings are issued.

\* \* \* \* And now perhaps you are asking, "What is he like? What was your im-pression of him?"

Can you picture a slight, young man, somewhere in his thirties one would judge, straight and pale, with regular features, and very smooth hair, and features, and very smooth hair, and brilliant eyes that, when you were near enough to see, burned and softened as he spoke?—I think he would have feit more at home, after four years of wearing it, in his khaki tunic than in his very immaculate evening dress. His voice was placid, but he had the movements of a shy man. He is, as he says himself, "a writing man." He had none of the gestures of an orator. His voice was, perhaps, a bit monotonous, and for this perhaps, a bit monotonous, and for this reason some folk confessed themselves "disappointed."—Could they not see, in spite of that, the bigness of the man himself, and recognize the beauty of his language, and perceive the tremendous import of his self-imposed task? It made one rather furious to hear these people dismiss him so casually, and made one pause to wonder whether they could ever get beyond demanding the gestures and facial contortions of the movie actors.

However that may be, Philip Gibbs still remains Philip Gibbs, going about with his placid voice and his most wonderful of all pens, ending ever in a plea (as though, after reading his story it were necessary) for the consolidating of a League of Nations so effective and so lasting that never again shall our Boys be required to face, because of War launched by any Power, rifle-shot, and bursting shell, and being buried alive, and burned by flame throwers, and poisoned and blistered with diabolical gases.

But this is Easter season, the time that marked a triumph over Death long ago, and, indeed, for all time, if we could but see. . . The other day I came across among my scraps a little prayer, offered by Harry Emerson Fosdick and printed in one of the great American Magrices in one of the great American Magazines. It is so beautiful that I want to pass it on to you:

"Father of all nations, endue us with vision, and courage, and resource in Thee, that the crisis of the world may become the opportunity of the Kingdom. Guide our country, empower our churches, inspire and restrain ourselves and all men that righteousness may triumph. For wisdom to discern the means most profitable 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 brotherhood of man, O God, and glorify our race in a fellowship of friendly peoples. O Love, crucified afresh 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.

APRIL 17, 19

the fever disa not recommend breaks out in y however, to ta about it, so the is the feeding n and most updisease is so ser chances with it. nurse speaks, w once before, and on that experie

Since writing of a successful of water for the fin juice for the i broths and cust

#### House

Dear Sir.—In Advocate I no sketches that a culture, etc. I with my house j and the leaves s they are quite that looks like eye, is in the plant from the e pot and fresh roots with soap long before I no give me any inf I would be ver any powder I co them do better

#### Newton, Robi

Soil for house the plants will n hand stable man cause worms, h bake the soil, pots, long enou insects eggs, wo an authority in prefers bone-mea plants, as it is les You might try into baked soil, which can be bo but be careful t much of the fe give the plants a people find that to plant them in garden for the su

#### A Sco

S. MacD., I kindly sends us a "delicious Sco iche'''. (I wonde right). Since t Scotland, he bids take notice.'' *Gallaniche Cak* 

1 cup; cream or 2; baking powd starch, 1 cup; flor Also Scotch S 1/2 lb. butter; 1 d moisture, and ba These "sound"

Plain Non-Skid \$10.50 \$11.50 13.45 15.45 14.50 16.70 20.20 24.25 21.40 25.65 22.60 27.10 23.40 28.10 \$29.20 34.00 35.00 38.00 39.00 42.50 45.00 28x3 36x4 33x41/2 34x41/2 35x41/2 36x41/2 \$26.00 26.50 27.00 28.00 30x316 32x3 31x4 32x4 33x4 29.00 35x5 34x4 35.00 36x5 Tubes 30x31/2 Fully Guaranteed, \$2.50 each. Security Tire Sales Co. 5161/2 Yonge St. 210 Sherbrooke St. W. TORONTO MONTREAL

Needle Points of Thought. "Only that people can thrive that loves the land and swears to make it beautiful; for the land is the foundation element of human life, and if the public relation to that is false, all else is of need false and inverted."-

Edward L. Carpenter. "If a political and social millennium ever comes to this troubled old earth it will be because, league of nations or no league, the British Empire and the United States-the English-speaking peoples of the world so will it. It will be because England and America pull together and not apart."—Chicago Evening Post.

#### Flu Treatment.

HE doctors, of course, have been observing a great deal about the Flu since its first appearance, and the treatment has changed somewhat materially. At first they said to give "plenty of nourishing, but digestible food." Afterwards the food supply was cut down to custard, broth, orange juice and milk. To-day I have received a letter from a nurse who has run into a flu epidemic in the United States. She says that a doctor there who has only had one death in spite of the fact that he has been called for miles to various towns, absolutely forbids milk, and permits no food but cold water until the fever dies down. He also sweats the patients until

a few thousands in Canada this w

#### Easter

Poached Eggs.egg must be te consistency and yolk a delicate the white. To e water, plenty of the buttered rin carefully one by them into the ring at once from stro and as soon as t small skimmer u the ring in place u upon a round of a bit of butter an

or pepper on top or Egg and Sardin egg for each perso and halve. Reb mustard, salt, ca to taste, also 2 sa the empty halve and serve on le spoonful of salad Finely minced ar or chicken may sardines. Never water to cool as tough. Hot Cross B

N 🔹 🖈 🖬 🗛 S

licate through which \* \*

s you are **asking,** What was **your im**-

slight, young man, thirties one would pale, with regular smooth hair, and when you were near ed and softened as he would have felt our years of wearing c than in his very ress. His voice was he movements of a he says himself, " had none of the r. His voice was, onous, and for this nfessed themselves ld they not see, in gness of the man the beauty of his ve the tremendous sed task? It made hear these people ly, and made one her they could ever g the gestures and he movie actors. be, Philip Gibbs ibbs, going about d his most wonderever in a plea (as his story it were onsolidating of a effective and so in shall our Boys because of War er, rifle-shot, and g buried alive, and vers, and poisoned

polical gases. son, the time that e, if we could but lay I came across le prayer, offered dick and printed erican Magazines. I want to pass it

s, endue us with resource in Thee, d may become the dom. Guide our churches, inspire and all men that ph. For wisdom nost profitable to national concord, ay and for multil all nations are to Thee. Make nan, O God, and wship of friendly ed afresh by the Calvary, grant us, ster Day and a n.

s all.-JUNIA.

#### APRIL 17, 1919

the fever disappears. Now, I do not recommend you to try this if flu breaks out in your home. I do ask you, however, to talk with your own doctor about it, so that he can find out if this is the feeding most approved by the best and most up-to-date authorities. The disease is so serious that one can take no chances with it. The doctor of whom the nurse speaks, went through a flu epidemic once before, and is basing his treatment

on that experience.—Junia. Since writing the above I have heard of a successful doctor here who gives only water for the first two days, adds orange juice for the next two, and, after that, broths and custard.-I.

#### House Plant Query.

Dear Sir.-In looking over the Farmer's Advocate I notice almost every week sketches that are very helpful on Horti-culture, etc. I am having quite a trouble with my house plants; they do not bloom and the leaves seem to turn up even when they are quite moist, and a small worm that looks like a tiny fish worm to the 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 give me any information on the subject. I would be very glad indeed. Is there any powder I could get that would make them do better?

#### Yours truly, MRS. W. E. ROWE.

Newton, Robinson, Ont.

Soil for house-plants must be rich, else the plants will not do well. On the other hand stable manure in a pot is likely to cause worms, hence florists as a rule, bake the soil, before putting it in the pots, long enough to kill any insects or insects eggs, worms, etc. Eben Rexford, an authority in floriculture, says he prefers bone-meal as fertilizer for houseplants, as it is less likely to harbor worms. You might try re-potting your plants into baked soil, enriched with bone meal (which can be bought from any seedsman), but be careful that you do not put too much of the fertilizer in as that will give the plants a sort of indigestion. Many people find that it helps house-plants to plant them in a suitable place in the garden for the summer.

#### A Scotch Cake.

MacD., Leeds Co., Ont., very kindly sends us the following recipe for a "delicious Scotch cake called 'Gallaniche' ". (I wonder if we have the spelling right). Since the recipes came from Scotland, he bids "Sandy" "look up and take notice.

Gallaniche Cake.—Butter, ½ cup; sugar 1 cup; cream or rich milk, ½ cup; eggs 2; baking powder, 1 teaspoonful; corn starch, 1 cup; flour, 1 cup.

Also Scotch Shortcake.—One lb. flour; 1/2 lb. butter; 1 cup sugar. Mix, without moisture, and bake. "sound" so good that probably a few thousands of them will be baked in Canada this week.

1 cup lukewarm milk, ½ cup sugar, ¼ cup butter, 1 egg, ¼ cup sultana raisins, ¼ teaspoon salt, 3¼ cups flour. Dissolve the yeast and 1 tablespoon sugar in the lukewarm milk, and beat in 1½ cups flour. Beat until smooth then add butter and sugar creamed, the beaten egg, floured raisins, salt and rest of flour, or enough to make a soft dough. Turn on the lightly floured board and knead lightly. Place in a greased basin. Cover and set aside in a warm place until doubled in bulk, which should be in about 2 hours. Now shape into medium-sized round buns and place in well-greased pans, 2 inches apart. Cover and let rise about an hour, or until light. Glaze with egg beaten with a little water. With a sharp knife cut a cross on top of each, and bake 20 minutes. Just before removing from the oven brush with sugar moistened with water and while still hot fill the cross with frosting.

Herrings au Gratin .- Butter a pie dish and sprinkle with minced parsley. Split the herrings, cut off the heads, and take out the backbone and as many of the other bones as possible without breaking the fish. Use a thin sharp knife for this. Roll them up with the skin inwards, season well, place a little butter on each, sprinkle thickly with brown breadcrumbs and bake in a quick oven for 10 minutes.

Fish Ramekins .- Soak a 3-lb. finnan haddie in equal parts of milk and water for 1 hour. Bake in a moderate oven 35 minutes, then separate into flakes. Cook 1/2 tablespoon finely chopped onion and 2 tablespoons finely chopped green pepper if you can get it, with ¼ cup butter, for 5 minutes, stirring con-stantly. Add ½ teaspoon salt, ½ teaspoon paprika or a dash of pepper, a few grains of cayenne, and 4 tablespoons flour, and stir until well mixed; then pour on gradually, while stirring, ½ cup cream and 1 cup milk. Bring to boiling point and boil 2 minutes. Next add the prepared haddie. Fill buttered ramekin dishes (deep patty pans will do) with the mixture, cover with buttered crumbs and bake in a hot oven until brown.

Fish Souffle.-Melt 2 dessertspoons butter in a saucespan and stir in about a cupful of cold mashed potatoes. When hot add a cupful of cooked fish broken small, a dessert spoon of minced parsley, and  $\frac{1}{2}$  cup milk. Now stir in 2 beaten yolks of egg; season with salt and pepper and lightly fold in the stiffly beaten whites of the eggs. Bake in a buttered serving dish until a pale brown.

Creamed Fish.—Use either cooked or uncooked fish. Scald 1 cup milk with 1 tablespoon minced onion, salt and pepper to season, also, if you have them, a bay leaf and 2 sprigs of parsley. When the milk is flavored strain and use for making a sauce with 2 tablespoons butter and 2 of flour. Butter a serving dish and fill with layers of flaked fish (about 13/4 cups), and the sauce. Cover with cup buttered crumbs and bake until lightly browned

Fish Loaf .- One cup minced fish, 1 minced parsley, 1/2 teaspoon salt (unless fish is salty) pepper to taste, ½ cup or more buttered crumbs, 1 or 2 eggs. Beat the egg well, add the other ingredients, pack into a buttered mould and steam or bake in a pan of water. When set turn out and pour a sauce around or peas, or sliced cucumber with French dressing. If the fish is uncooked it will be required to be steamed longer. the white of egg is beaten stiff and folded in at the last, just before steaming, the dish will be more like a souffle, and quite delicate, and will make more portions.

#### 193 POULTRY - EGGS

THE FARMER'S ADVOCATE.

Condensed advertisements will be inserted Condensed advertisements will be inserted under this heading at four cents per word each linertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisement inserted for less than 60 cents. for less than 60 cents.

AFRICAN GEESE, INDIAN RUNNER, Muscovy ducks, Guineas, Barred Rocks, Spanish R. I. Reds, White Leghorn, White Wyandotte, Anconas, Campines. Eggs only. John Annesser, Tilbury, Ontario.

ANCONAS SINGLE-COMB STRONG AND vigorous. Two year hens mated to cockerels from trap-nested stock. Eggs \$1.50 per 15, \$7.00 per hundred. W. E. Williams, Clandeboye, Ont.

BEAUTILITY WHITE ROCKS BEAUTY AND utility combined in one grand breeding strain. Only worth while hens trap-nested through their pullet year used as breeders. Eggs at \$2.50 for 15. J. A. Butler M. D., Newcastle, Ont.

BABY CHICKS FOR SALE-BARRED ROCKS, White Wyandottes, Rhode Island Reds and S.-C. White Leghorns Barron strain, April delivery \$30 per hundred, May delivery Wyandottes \$28 and Rocks, Reds and Leghorns \$25 per hundred. 98% safe arrival guaranteed. Finest flocks in Canada. Fred J. Hind, Baby Chick Specialist, 1378 Queen St. E., Toronto, Ontario.

BARRED ROCK EGGS—FROM POSITIVE pedigreed trap-nested stock, wondeiful pro-ducers, trapped by myself. For a change of blood you need my stock; \$3.00 per setting. B. Lin-scott, Brantford.

BRED-TO-SHOW LAYING STRAIN BARRED Rock eggs for hatching. Write for catalogue. Chas. Barnard, Leamington, Ont.

BRED-TO-LAY SINGLE-COMB WHITE Leghorn eggs for hatching, fifteen \$1.50, hun-dred \$7.00, carefully packed. Broken eggs re-placed. Addison H. Baird, Route 1, New Hamburg, Ontario.

BARRED ROCK EGGS; FIFTEEN, TWO dollars; thirty, three fifty; ten dollars, one hun-dred; from hens that are bred and barred right and grand layers. Order from this advertisment. Satisfaction guaranteed. W. Bennett, Box 43, Kingsville, Ont.

BARRED ROCKS — PARKE'S AND O. A. College bred-to-lay strains. Can supply cock-erels. Write your wants. Eggs, \$2 for 15. M. A. Gee, Selkirk, Ont.

BABY CHICKS AND HATCHING EGGS. Barred Rocks, White Rocks, White Wyandottes, Golden Wyandottes, Rhode Island Reds and White Leghorns. Pure-bred utility stock. Incu-bator capacity, 9,000. Satisfaction guaranteed or money refunded. Write for prices. Tay Poultry Farm, Perth, Ontario.

BARRED PLYMOUTH ROCKS-CHAMPION Guelph winners; heavy egg production; eggs, \$3.00 per 15. Jno. Fenn, Plattsville, Ont. BABY CHICKS-BEST LAYING STRAINS. S.-C. White Leghorns, 18c. each. Barred Plymouth Rocks, 22c. each. Hatching eggs, \$1.25 per setting, \$6.50 per hundred. G. W. Grieve, Parkhill, Ont.

BARRED ROCK COCKERELS FOR SALE AT reduced prices. Satisfaction guaranteed. Write John Pringle, London, Ont.

BRED - TO - LAY TOM BARRON WHITE Leghorns and Barred Rocks; one-fifty per set-ting. Henry Hooper, 83 Nottingham St., Guelph, CYPHERS WYCKOFF BRED-TO-LAY S.-C.

White Leghorns, baby chicks and hatching eggs. Catalogue free, giving description and prices. Cooksville Poultry Farm, Cooksville, Ont. CANADIAN RINGLET BARRED ROCKS-Trapnested daily for 5 years. Send for records. F. J. Coldham, Box 12, Kingston, Ont.

PURE-BRED SINGLE-COMB WHITE LEG-HORNS, Rose-comb White Wyandottes, bred-to-lay and prizewinning stock. Eggs, \$2.00 per fifteen. Esra Stock, Woodstock, Ont.

771

PLYMOUTH ROCK LAYING STRAIN, FROM Agricultural College—\$1.50 per setting. Mrs. Berry, 52 Queen St., Guelph.

REGAL DORCAS WHITE WYANDOTTES America's Finest Strain, winners at New York and Boston, splendid layers of dark brown eggs. Official records, 200 to 255 in North American laying contests. Vigorous, matured cockerels, \$4.00 and \$5.00 each. Eggs \$3.00 and \$5.00 per setting. FREE illustrated catalogue. John S. Martin, Port Dover, Ont.

INGLE COMB WHITE LEGHORNS EGGS from Tom Barror strain, one fifty per setting. J. E. Honsberger, Dunnville, R.R. 4.

SILVER GREY DORKING EGGS FROM A careful selected laying strain. I imported cockerel head of pen, \$2 per 13. W. Shore, Ilderton.

S.-C. WHITE LEGHORNS-HEALTHY, VIG-OROUS stock; proven laying strain. Results will please. Fifteen eggs, \$1.50. James Row, R. 1, Belmont.

S.-C. WHITE LEGHORNS - 230 - 264 - EGG strain, or O.A.C. Barred Rock eggs, \$1.50 set-ting; \$8 hundred. Selected egg-producers that cannot be beaten. A. B. C. Dickinson, Port Hope, Ont.

SINGLE-COMB WHITE LEGHORN BABY chicks from our celebrated laying strain, for sale. Utility Poultry Farm, G. O. Aldridge, Mgr., Lt. Col. T. G. Delamere, Prop., Stratford, Ont. SPECIALISTS IN BARRED ROCKS SEVEN-TEEN years. Eggs for hatching, Guilds and Ringlet strains bred-to.lay, hens have free range; fifteen, two dollars, fitty for five. J. F. Werden and Son, R. 8, Picton Ont.

S. C. RHODE ISLAND RED-EGGS FOR hatching from two choice standard-bred pens at \$5 per fifteen. Also eggs from two pens of select layers at \$2 per fifteen, \$10 per hundred. Guar-antee nine chicks to a setting. H. W. Pringle Napanee, Ont.

TURKEVS AND GEESE-WE HAVE THIS spring 40 healthy Bronze turkey hens, mated to husky young toms. Eggs in season, \$5.00 per 10. 30 choice Toulouse geese, also well mated; eggs now ready, \$4.50 per 9. Few toms and ganders on sale. Everything in pure-bred land and water fowels. Write us first. Stamps for early reply. Yamaska Poultry Farms. St. Hyacinthe, Que. WHITE WYANDOTTES—A VERY CHOICE, lot; health, quality and size. Eggs \$1,59 per 15. Herbert German, R.R. 1, Paris, Ont.

WHITE WYANDOTTE EGGS FOR HATCH-ING, heavy layers and prize winners. Two to five dollars per setting. Stock for sale. J. McCaffrey, Newmarket, Ont.

WHITE WYANDOTTES, BRED FOR TYPE, size, vigor, and production. Eggs for hatching \$2.00 per 15. Frank Morrison, Jordan, Ont.

## **BABY CHICKS**

#### of Quality

Single-comb White Leghorns, bred-to-lay. Order now and get the early layers. Price 25, \$6.00; 50, \$11.00; 100, \$20.00. Safe arrival guaranteed. Also 8 weeks old pullets \$1.00 each.

Walnut Glen Poultry Farm R. R. 4 Chatham, Ont. .....

#### **BABY CHICKS**

Barred Rocks, White Wyandottes, White Leghorns Bred-to-lay from Parks, Poorman's and Barron's strains. These are known as America's best. Prices On Application. Special prices to Farmers' clubs and others in lots of 300 and over.

LUCKNOW HATCHERY LUCKNOW **ONTARIO** ----

**BARRED ROCKS** Large, heavy barred fowl, very productive layets, no separate pens, all have free range. Cock-erels of last seasons' hatch weighed from eight to ten pounds. Eggs for hatching \$1 per 15. **R. A Cowan, Streetsville, Ont.** 

Thought. an thrive that ears to make it is the foundalife, and if the at is false, all ad inverted."—

social millen. is troubled old use, league of , the British ed States-the es of the world because Engtogether and vening Post.

#### ent.

rse, have been deal about the ppearance, and ged somewhat y said to give but digestible od supply was h, orange juice eceived a letter un into a flu tes. She says s only had one t that he has various towns, nd permits no the fever dies patients until

#### Easter Cookery.

Poached Eggs .- To be perfect poached egg must be tender and jelly-like in consistency and opalescent in color, the yolk a delicate pink showing through the white. To ensure this pour boiling water, plenty of it, into a pan, and put the buttered rings in. Break the eggs carefully one by one into a cup and slip them into the rings, drawing the pan away at once from strong heat. Cover the pan, and as soon as the eggs are done slip a small skimmer under each ring, holding the ring in place until the egg is deposited upon a round of buttered toast. Put a bit of butter and sprinkling of paprika or pepper on top of each and serve at once. Egg and Sardine Salad .- Boil hard an

egg for each person. Cool, remove shells, and halve. Rub the yolks fine and add mustard, salt, cayenne and lemon juice to taste, also 2 sardines minced fine. Fill the empty halves of the eggs with this and serve on lettuce or cress with a spoonful of salad dressing on top of each. Finely minced and highly seasoned ham or chicken may be used instead of the sardines. Never drop hard eggs into water to cool as that will make them tough.

Itol Cross Buns .- One Cake yeast.

#### Odds and Ends to Eat.

Cream Cookies .- Mix together 2 cups sugar, 2 cups cream, 1 teaspoon salt, 1 even teaspoon soda, 1 teaspoon vanilla. Beat 1 egg well into this, and add enough flour to form a moderately stiff batter. With a spoon drop this on some buttered baking-sheets, leaving a space between. Serve plain or with raspberry icing.

Scottish Potato Scones .- Mash potatoes while hot. Add a little salt and enough flour or barley flour to make stick together a little, kneading well. Roll out, cut into squares, prick with a fork and bake on a hot buttered griddle on top of the stove. The secret of light scones lies in baking them while the potato is hot. Serve very hot with butter.

Raisin Corn Bread .- One cup sour milk

EGGS FOR HATCHING-BRONZE TURKEYS Barred and White Rocks, Pekin, Rouen and Indian Runner ducks, White Wyandottes, White Leghorns and Rose-comb Brown Leghorns. Write or prices. J. H. Rutherford, Albion, Ont.

or prices. J. H. Rutherford, Albion, Ont. EGGS-\$2.50 FOR 13-S.-C. BUFF LEGHORN, Ancona, Blue Andalusian, Dark Cornish. Hugh McKay, 33 Curry Ave., Windsor, Ont. EGGS AND DAY-OLD CHICKS FROM extra heavy laying strains of Barred Rocks, White Rocks, Reds, Wyandottes, Orpingtons, Minorcas, White Leghorns, Brown Leghorns, Anconas, Spanish, Silver Hamburgs, Cornish, etc. Also duck eggs, Pekin, Alisbury, Rouen, Runners, Fawn, pencilled and Pure White. Write for our free mating list. M. Shantz, Ayr, Ont. EGGS-SINGLE-COMB WHITE LEGHORNS, Barron's strain; lay year 'round. S.-C. Rhode

EGGS—SINGLE-COMB WHITE LEGHORNS, Barron's strain; lay year 'round. S.-C. Rhode Island Reds, selected winter layers, \$3.00 per fifteen. E. Willson, Aurora, Ont. FERTILE HATCHING EGGS—TEN YEARS selective breeding—Rose-comb Rhode Island Reds; bred for size, vigor and production of bred-to-lay strains; fifteen, \$2.00; thirty, \$3.50; eight dollars per hundred. Robert J. Brown, R.R. 2, Cornwall, Ont.

AIRVIEW S.-C. BROWN LEGHORNS.

FAIRVIEW S.-C. BROWN LEGHORNS, Becker strain. Eggs, \$1.00 per 15. Wm. Bunn, Denfield, Ont. HATCHING EGGS—FROM TRAP-NESTED stock; Barred Rocks and White Leghorns, heavy laying strains; fertility guaranteed, per setting two dollars. R. J. Parkinson, Granton, Ont

setting two dollars. R. J. Parkinson, Granton, Ont
I HAVE THREE COCKERELS \$5.00. HENS
S. S. Hamburgs \$3.00 each. 2 Light Brahma
hens \$3.00 each. 3 cockerels \$5.00 each. 4 hens, 6
pullets, Red Caps \$3.00 each. Eggs in S.-C.
White and Black Leghorns \$3.00 per 15. Robert
Houser, Canboro, Ont.
LAY-A-LOT S.-C. WHITE LEGHORNS
trap-nested the year through. Only tested hens
used as breeders. A laying strain of Barron blood
foundations. Eggs at \$2.50 for 15. J. A. Butler
M. D., Newcastle, Ontario.
MINORCA EGGS, BOTH COMB. ONE
fifty per fifteen, also cockerels four dollars each.
Fred Reekie, Camperdown, Ontario.

1 beaten egg, 1 tablespoon butter (melted) 1 teaspoon sugar, 11/4 teaspoon salt, 3/4 teaspoon soda, 1 teaspoon cream o tartar, 1 cup flour, 1 cup cornmeal, 1/2 cup raisins. Mix together the milk egg, butter, sugar and salt. Add the soda dissolved in a tablespoonful of water, then the flour and cream of tartar sifted together. Stir in the cornmeal and raisins, and bake in a moderate oven half an hour.

Carrots With Sauce .--- Clean and cut carrots in half-inch cubes. Cover with boiling salted water and cook until tender. Drain, keeping the water for the sauce. Make a sauce using this water, to which has been added a little sugar and nutmeg, with butter and flour to thicken. There should be just half as much sauce as vegetable. Pour it over the carrots and cook together for

5 minutes. Serve very hot. Corned Beef.-Corned beef is delicious 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 boil hard the beef will be dry and tasteless. The right way is to put the meat in a saucepan with enough cold water to cover it. Let come to a boil and boil briskly for half an hour, then draw to the back of the range and let just simmer, covered closely, for 31/2 hours or more.

Leave in the water afterwards so that

## FUJI MICRO SAFETY . N



772

Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted and Pet Stock. TERMS—Four cents per word each insertion. Back initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accommany the order. No advertisement inserted for less than 60 cents.

"DAIRYMEN WANTED MUST BE GOOD milkers at Speedwell Hospital, Speedwell, Guelph Ontario."

FOR SALE—200-ACRE FARM, FIRST-CLASS condition, buildings included. Apply F. H. Orris, Box 142, Springfield, Ont.

MAN TO OPERATE TRUCK OR FURNISH team to collect cream and produce. State rate expected and references. Box 27, Farmer's Ad-vocate. London, Ont.

SINGLE MAN FOR GENERAL FARM work. Apply, stating experience, age and wage expected, to Frank Strong, Gorrie, No. 1, Ont.

TEACHERS FOR SCHOOLS OPENING APRIL and May, continuing till Christmas, salaries \$90 to \$120 per month. Also teachers for next term. Western Teachers' Bureau, Winnipeg, Man.

WANTED-EXPERIENCED SINGLE MAN for stock farm, good with horses and cattle. State wages expected. Box 272, Mitchell, Ont.

Our stock is rich in "May Rose" "Governor of the Chene" and "Mashers Sequel"—blood. Choice animals for sale, from imported stock. B. P. HILL & A. N. FAULKNER Great Village, Nova Scotia.

Now is the season to Insure your In Foal

Mares, Stallions and Cattle.

For rates and particulars

J.A. Caesar. Lumsden Blg., Toronto, Ont.

SILK--All Fancy Colors

LIVESTOCK

Canboro,

**INSURE YOUR** 



room just for the hook, and the garment will be kept free from dust and grime

all summer. Stuff the sleeves with paper

When there is not room for hanging the

garments must be packed, and each should

be folded as flat as possible, and with as

few wrinkles as possible, before putting in

the box. Lay pads of tissue paper where-

ever ugly crosswise creases are likely to come. Always fasten a skirt, placket and

all, and lay pads of paper into the folds, before packing.

back on a table and bring the front edges together. Stuff the sleeves with soft paper and lay pads of the paper

wherever bad creases are likely to come.

Hats should be very thoroughly cleaned

and the ribbon loops, etc., should be

stuffed with soft paper sprinkled with moth crystals. A good idea to keep the crown up is to put it over an inverted,

Also fill out the bust with padding.

overed strawberry box.

To fold a coat properly lay it with its

prinkled with camphor flakes.

A little pulverized chicken-manure worked in about early flowering shrubs will be found a benefit.

#### \* \* \* Garden Hints.

Wear an oilcloth apron when working n the garden. If you kneel while working at the garden rows you may find a sacking cushion filled with straw comfortable in keeping dampness away. Have all garden tools sharp and clean for working. \* \* \* \*

Forcing Spring Delicacies. A few clumps of rhubarb and aspargus may be had from 2 to 4 weeks earlier than isual by putting a box or barrel without op or bottom over the roots and banking t about with fresh horse manure. Cover the top with muslin to retain most of the

#### Parsnips.

Large pieces. Just what you need for making Crazy Quilts, Cushions, etc.; large bundle 50c., or for \$1.00 we will send you more than double the quantity and a large packet of SEWING EM-BROIDERY SILK FREE. We pay postage. Order now and receive our catalogue free. UNITED SALES CO., Dept. 91, Station B. Winnipeg, Manitoba, Canada. parsnips left over in it since last fall They are good now (provided it is their Seed Potatoes Sound District, \$2.00 per bag. Bags ten cents first year in the gound), but if permitted to grow at all they develop a poison that makes them unfit and even dangerous

## **Current Events.**

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 liquors. \* \* \* \*

The Bill to provide for a referendum on the liquor question was introduced into the Ontario Legislature on April 11 by Premier Hearst. By it women will be entitled to a vote, the vote being permitted to all British subjects who are 21 years of age and have the usual residence qualifications. \* \* \* \*

The British Columbia Electric Rail-ways Company has put \$50,000 at the disposal of its employees to help them buy or build homes.

In Galt, Ont., Arbor Day, May 1st, has been set aside as a public holiday to be devoted to the planting of memorial trees.

Three farmers have been chosen on the Executive of twelve men, of the Petrolea, Ont., Chamber of Commerce.

India is in the grip of a famine which, if help is not speedily sent, threatens to become disastrous.

The report that Geneva has been selected as the permanent seat of the League of Nations seems to be authentic,

It is now believed impossible for peace to be signed by Easter, but some de-finite progress has been made. On April 12 an official summary of the revised covenant of the League of Nations was issued. It includes a provision that the League will in no way interfere with the validity of regional provisions like the Monroe Doctrine, which have been undertaken in the interests of peace. The Commission has rejected the Japanese amendment on racial equality. While the majority agreed to the principle, the vote was not unanimous, as required. It was stipulated, however, that Japan shall be included in the Executive Council of the League, as one of the five great Powers. The trouble seems to be the immigration problem, which presents many difficulties, notwithstanding the assurance of the Japanese delegates, Baron Makino and Viscount Chinda, that Japan has no intention of foisting Japanese coolies on white countries, but asks chiefly that the race stigma be removed from the peoples of the Orient a stigma, by the way, that never should have existed, and that is rapidly dying-out of itself. The Big Four have decided that Germany is not to lose the left bank of the Rhine. France is to have the output of the German coal mines in the Saar Valley as reparation, until the Lens coal properties are in operation, but the territory will remain German. Some attempt has been made at settle-

ment of the Dalmatian Coast dispute between the Italians and Jugo-Slav the proposal that Fiume be made an international city. Dantzig, on the Baltic may also be internationalized. An important provision of the revised covenant states that any State can withdraw from the League upon giving 2 years notice. If any member nation commits a clear breach, all others must break off economic and other relations, with that nation, and permit free passage of troops through their various territories against that nation, should such be necessary in the interests of peace During the week the Ukrainian Reds have captured both Odessa, and Simferopol in the Crimea. British troops, on the other hand, have occupied Trebizond, which may become the base for the Allied forces on the Black Sea. It is stated as true that the death rate in Russia, due directly or indirectly to starvation, is 200,000 monthly. In Petrograd there is now scarcely a child living under 2 years of age. . On April 10 Government troops arrested the leaders of the strikers in Essen and occupied the Krupp factories. In Bavaria a Soviet Republic has been set up, but elsewhere the German workmen are beginning to recede from the extreme position of demanding control of industry, while in Hungary a clear cleavage has occurred between the Socialists and Bolshevists. Germany is planning to establish a court of its own to investigate and if necessary try those accused of

crimes during the War, and who have requested investigation of their cases. It is also planned to enact a law providing a new court to try former Chancellor Bethmann-Hollweg, Gen, Ludendorf, Admiral von Tirpitz, Jagow (forme Foreign Minister) and others. On April 2 an investigation, with representatives from the British, French, Dutch and Norwegian Governments, was begun to investigate the case of Capt. Fryatt, of the British mercantile marine; who was put to death by the German authori-

FOUNDED 1866

ties in 1916 after a German Courtmatrial had convicted him of trying to ram a German submarine with his ship. It was decided on April 9, by the Council of Four, that the Kaiser will appear before an international high tribunal on the charges of violation of international morality and sanctity of treaties. He will not be in danger of the death penalty but will not be permitted again to be free.

An Easter Message.

BY HELEN M. RICHARDSON. When spring unlocks the storehouse Whence Easter Blessings flow, 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 Peeps the forget-me-not

Bravely the bloodroot pushes Its way through leaves of brown; Arbutus, subtly fragrant,

Displays her Easter gown From tree to tree the squirrel Pursues his frisky mate. While rabbits from their burrows

Seek to investigate. From winter stalls the cattle

With restive feet declare A vague unrest and longing That permeate the air; And, as the barn doors slowly

On hinges open swing, They view in silent wonder The miracle of Spring.

There is an Easter message

For you as well as me, When through the fields and woodlands Once more the dumb roam free. Would we with hearts unsullied Partake this Easter joy, What God's hand hath created

Let not man's hand destroy!

#### Smiles.

Not In It .--- Old Uncle Jacob was walking majestically up and down the village street 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. "I'm celebrating my golden wedding." "Then why isn't your wife celebrating it with you?" said the man. "She ain't got aught to do with it," replied Uncle Jacob indignantly. "She's the fourth."

#### APRIL 17, 19

## The

The first dinr students in To 2nd.

Sir Oliver Lo he will resign versity in Birr wishes to devot problem of the its physical and

Sir William scientist, died Among the ach the discovery of and valuable ex and radium. O siderable attenti which he endea physical laws.

#### The cost of t \$197,000,000,000 9,000,000.

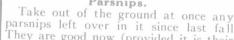
Canada has pictures painted dian action in t manufacture of to the fighting of work was done c by eminent Brit including Wynd John Turnbull an ally the pictur Canada, where th war memorial in at Ottawa.

Horticulturist announced their town one of the Continent. Is ambition one that every other city community in C been and never over the plantin and flowers. In these beautiful sweeten and enn

afford to do with

Apropos of t masquerading in Sinn Fein activ facetiously notes Kipling's enter Doola suggests t unexpected place papers during the shows that Irelar best place to loo get less like Enni international dire

Strange are the That come f For De Valera Like "Sella ( These foreign s Make Erin's For Rocklingha That seems 1



RRA

D. E. CAMPBELL Port Elgin, Ont

it will not dry out until all is used. The cheaper cuts of beef, such as the rump and brisket, may be used for corn-A good brine is made as follows: ing. Take 1 quart salt, 1 oz. saltpetre, 12 cup brown sugar, 1 gal. cold water. Rub part of the salt into the meat; dissolve the rest the sugar, and the salt petre in the water. Put in the meat and set a weight above to keep the meat under the brine Let stand in a cool place. Thin piece of meat and tongues will be ready to cook in 3 or 4 days; thick pieces will take longer. If you do not want the meat very salty shorten the time in the brine.

#### **Putting Away Winter** Clothes.

OTHS are attracted by dust, dirt grease and dampness, therefore see that every article of winter clothing is brushed and cleaned before putting it away. Remove all grease spots with French chalk or any of the prepara tions sold for removing spets—"carbona" is good. Where there is enough storageroom a good idea is to put dresses, etc.,

Old White Dresses.

Old white dresses may be dyed any color one wants, and so given a new lease of life. This spring the skirts may have to be lengthened a little and made narrower. If a new facing has to be put on use white, and make the dress ready for wearing before it is dyed.

#### Washing Lace Curtains.

Lace curtains are not liked very well nowadays, preference being given to voile, scrim, "sunfast" linens, India prints, Japanese cotton crepes, heavy net, and pongee. If, however, one has some old lace curtains one is "wearing out," it is well to know how to wash them so they will look their best. They should never be rubbed Put them in cold soft water over night. Press out in the morning and put into clean cold water to which borax has been added. Bring slowly to a boil and boil 15 or 20 minutes. Rinse thoroughly through several waters, and into the final water put 5 cents worth of gum arabic dis-solved in a little hot water. Do not use starch. It is almost impossible to get it thin enough to keep them from looking stiff and ungainly. Old white curtains may be made a pretty cream by dipping room a good idea is to put dresses, etc., into long bags made of cheesecloth or old night-dresses, the garments being first suspended from a padded hanger. Pin the bag tightly about the top, leaving will be lighter when dry. them after washing in a bath of cold

At a dull "author's reading" in a London house, the hostess mercifully allowed her husband to slip from the room at the end of an hour.

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 awakened him.

"James," he said, sternly, but with a twinkle in his eye, "I'm afraid you've been listening at the keyhole!"

Time is a relative quantity. Some minutes seem like hours, and some hours seem like minutes. How to control this 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 accordingly asked him why

he did not play. "Cause," he said, slowly, "it makes recess too quick if I play, and I want it to la-a-ast!"

"Does that girl next door to you still abuse the piano?" "No, she's got a cornet now." "Great Scott! That must be worse" "Not at all. It's only half as bad. She can't sing while she's play-ing the cornet."—Boston Transcript.

And though the To tell the b They never hea In Cashel or It's sad to see s Without the Stands Ireland Well, hang m

At the lunch h versation between evidently unattac "Gee, how lo here?" "Ten days alre "Good job?" "Swell." "When do you "Any time I wa "Aw, go-wan! kid me?"

"Nope. I c'n feel like it, just o'clock.

"Why don't ye Hard work neve marked the phile whom Rastus app "You're mistal Rastus: "I'se los

War, and who have ation of their cases. o enact a law providing ry former Chancello Gen, Ludendorff pitz, Jagow (former and others. On April with representatives French, Dutch and nments, was begun case of Capt. Fryatt, ercantile marine, who y the German authorir a German Courtcted him of trying to marine with his ship. April 9, by the Council aiser will appear before high tribunal on the ion of international tity of treaties. He er of the death penalty nitted again to be free.

#### r Message.

. RICHARDSON. s the storehouse essings flow, ectant iglow. lies thickly nd spot, purple ne-not.

ot pushes aves of brown; rant. er gown. e squirrel mate. heir burrows

e cattle eclare onging air; rs slowly ng, onder ng.

essage elds and woodlands b roam free. unsullied

joy, n created destroy!

ele Jacob was walk-d down the village nday suit. ''Hallo, e of his neighbors, oliday?" "Yes, ob, proudly. "I'm wedding." "Then elebrating it with "She ain't got eplied Uncle Jacob ie fourth

#### APRIL 17, 1919

## The Windrow

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

Sir Oliver Lodge has announced that he will resign as Principal of the University 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 the achievements of his life were the discovery of thallium, a new element, and valuable experiments with electricity and radium. Of late years he gave considerable attention to psychic phenomena, which he endeavored to correlate with physical laws. \* \* \* \*

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 hundred pictures painted to commemorate Canadian action in the Great War, from the manufacture of munitions and airplanes to the fighting of the great battles. The work was done concurrently with the War by eminent British and Canadian artists, including Wyndham, Lewis, W. Roberts, John Turnbull and Paul Nash, and eventually the pictures will be brought to Canada, where they will form a permanent war memorial in the National Art Gallery at Ottawa. \* \* \* \*

Horticulturists of Chatham, Ont., have announced their intention to make their town one of the most beautiful on the Continent. Is not this praiseworthy ambition one that should be followed by every other city, town, village and rural community in Canada. There never has been and never can be jealous rivalry over the planting of trees, shrubs, vines and flowers. Indeed, the only effect of these beautiful gems of Nature is to sweeten and ennoble character. Can we afford to do without them?

Apropos of the foreign names seen masquerading in Ireland during recent Sinn Fein activities, The Australasian facetiously notes:

Kipling's entertaining story of Namgay Doola suggests that you find the Irish in unexpected places, but a glance at Irish papers during the recent election campaign shows that Ireland isn't by any means the best place to look for them. It seems to get less like Enniscorthy and more like an international directory every day.

Strange are the good old Irish names That come from College lawn, For De Valera somehow sounds

Like ''Sella de banawn.' These foreign sounds and funny

#### Our Friend, the Brush.

THE FARMER'S ADVOCATE.

TAS it ever occured to you to wonder how the first brush was made? And has the wondering carried you back to some cave woman, cleaner than the others, who tied a bunch of reeds or grass together and brushed out the floor of her cave? In some such way, assuredly, must the first brush or broom have been made.

To-day we have brushes of every kind, and for every purpose. They are very great savers of work, and yet in many homes one might search from cellar to attic and find no more than three—a broom, a large scrubbing brush and a clothes' brush. And yet working brushe, are not expensive-at least were not before the war, and are not yet in comparison with other things.

Often the scarcity of "our friend, the brush," is due to one's not knowing just the kinds of brushes that may be bought.

Of course everyone knows the little stiff brushes that are to be bought at any of the Knox or Woolworth stores. 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 to do it with. So does preparing potatoes 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 with bristles all round for several inches will be found a very great help. A large brush of similar form is made for cleaning toilets, and will be found indispensible in any rural home that is supplied with a waterworks system. bath tub brush, with a can of "Dutch bath tub brusn, with a tan Cleanser" or ammonia will make keeping the bathtub clean an easy matter. 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 or painted borders about rugs need, of ourse, a dustless mop, which is one of the greatest labor-savers for the housekeeper. If one has not one of the patented mops, made of heavy cords, one can make a very good substitute by fastening a wad of clean old cotton in an ordinary mop fixture, afterwards moistening the cloth with coal oil, or, still better, with the O-Cedar or other oils used for the patented mops. . For polishing hardwood floors after waxing a large brush for the purpose may be bought. It is for the purpose may 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 flannel makes a very good polisher, but is harder to use.

## Special to Subscribers

773

We have a large stock of the SANITARY KITCHEN SETS shown in the illustration. These were formerly given as premiums to subscribers for sending in the names of TWO NEW SUBSCRIBERS, and were excellent value. Now, owing to the large stock, we will send one of these useful sets to any regular subscriber for sending in the name of

One New Subscriber to the Farmer's Advocate and Home Magazine

For one new



's reading'' in a ostess mercifully slip from the room

vas indulging himwn, when he saw his post near the to the man and

ernly, but with a 'm afraid you've yhole!''

quantity. Some , and some hours w to control this persons, but the ow seems to have r a youngster. rised to see that idle all through asked him why

owly, "it makes y, and I want it

loor to you still o, she's got a ott! That must It's only half while she's play-Transcript.

Make Erin's exiles stare, For Rocklinghausen's not a name That seems to fit a fair.

And though they come of Irish stock, To tell the blessed truth, They never heard of Marcovicz

In Cashel or Maynooth. It's sad to see so many born

Without the prefix O'; Stands Ireland where it used to once? Well, hang me, if I know!

At the lunch hour we heard this conversation between the office boy and his evidently unattached friend:

"Gee, how long you been workin' here?"

"Ten days already." "Good job?" "Swell."

'When do you hafter get to work?''

"Any time I want to." "Aw, go-wan! Whatcha tryin' to do, kid me?"

"Nope. I c'n go to work any time I feel like it, just so I'm no later than 7 o'clock.

'Why don't you get out and hustle? Hard work never killed anybody," remarked the philosophical gentleman to whom Rastus applied for a little charity. "You're mistaken dar, boss," replied Rastus: "I'se lost fouh wives dat way."

For dusting upholstered furniture a 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 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 into a bag, so that it can be carried to the furnace or stove and burned instead of being left free to fly about. Vacuum cleaners also help to keep carpets and upholstery free from moths, as they draw the moths and "buffalo bugs" up as well as the dust. The cleaners intended for 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 for about \$60 and will be found invaluable in any farm home p-ovided with electricity as many are at the present time and more will be when things resume their natural progress again.

#### **Extracts From A "Dairy** Show."

At the great U. S. National Dairy Show, held last fall at Columbus, Ohio many interesting speeches were delivered. As the following extracts and observa-tions apply to Canada as well as to the pleasure.

Mrs. Ira Couch Wood, Chairman of the Child Welfare Committee of the National Council of Defense for Illinois, called attention to the fact that the country is to take care of cows, pigs, horses, chickens and so on, and not nearly enough to take care of the children. "We are just beginning to apply the same science to the human child as we do to animals," she said. "One great eye-opener has been the experience of the draft. From one-third to a half of the young men examined were found unfit for the defence of the coun-

try when the test came. I do not benow only to make soldiers of them; we should work as much to make them healthy and capable for peace."

being undertaken-to save 100,000 children who die from preventable causes fares very ill at the family table. You every year. Everywhere Child Welfare have to give it a special diet. organizations are setting to work, and

been in the clinics held in some places in Canada. By these examinations, in which nearly 7,000,000 so far have been 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 is the matter United States, they are here given with either they are not getting enough food or they are not getting the right kind of food, or they have physical defects which could be remedied to make for proper growth. We have a very small percentage of people who cannot secure enough food. spending great sums of money every year It is not a matter of poverty but of to take care of cows, pigs, horses, chickens ignorance. Parents need education and re-education to bring home the fact that there are standards in child development, and that the proper food in the majority of cases will bring the child up to the standard.

"Our children should be 100 per cent. perfect," she continues. Of course, some will be handicapped by heredity, but proper feeding works wonders. "It means lieve we are working for the children milk and butter and plenty of green vegetables, very little meat.

"In most families, the baby of two years takes his chance with father at the In the United States a great campaign family table, for most tables represent what father likes. A child of two years

"We have not put quite the right children under 6 years of age are being emphasis on this whole matter. I beweighed and measured-just as they have lieve we have to put the feeding problems

right into the school, high school and college, and make that one of the main purposes of education. We train woman very carefully if she is going to be a lawyer or doctor, but after all most women will be home-makers, and they should be care-fully trained for that. "We have to see that mothers are educated to feed the children the right Sort of food. To this add forch sin electron

774

sort of food. To this add fresh air, plenty of rest, wholesome recreation, and we will put the child where he belongs in the centre of things.

"There is not much use sending the boys across to win victory and peace if we do not have a strong, virile nation to inherit the kind of world they are making for us."

#### **Report of Farm Condition.**

Under date of March 31 the Ontario Department reports as follows regarding farm conditions: The young fall wheat is looking well although it has been exposed more than usual during the winter. The next two or three weeks, however, are regarded as the most trying times for the young plants and at the time of reporting, strong, raw winds were prevailing.

Considerable spring plowing has been done in some of the southwestern counties. In Lambton and Kent some spring wheat and oats have been sown already. Wellington and Lincoln predict a large acreage of spring wheat, but Halton states that mixed grains will be preferred in that county.

Clover does not look so promising as fall wheat, as it has suffered more from heaving. Where top-dressed in the fall red clover is said to be in excellent condition.

Little or no winter injury to orchards has been reported. Fruit buds are very far advanced for the season.

Live stock are more or less in demand. excepting horses. But while the horse market generally is dull, several carloads were shipped from the northern part of Huron during the month. At a recent fair in Wellington about fifty animals were sold to dealers for outside points, and about as many more to local farmers.

Beef cattle are being marketed more Beet cattle are being marketed more freely, but there is a scarcity of well-finished animals offering. Good grade cows are in great request. At a recent sale in Lambton grade Shorthorns aver-aged \$155; two brought \$181 and one \$191. Waterloo reports the average price paid for fourteen grade Holstein cows was \$165.75. In Dundas dairy cows have changed hands at from \$100 to \$140. Hogs are being turned off in fair numbers, and more are likely to be fed than were counted on recently. Young pigs are again in brisk demand, six weeks old animals being snatched up at from \$11 to \$13 each.

Hay is scarce, and is selling at from \$20 to \$25 a ton. Other fodders, more especially roughage, are more than sufficient for all calls.

Beans are in good supply, and buyers are more active. Farmers' Clubs are active in buying

and selling. Wellington reports that ten clubs in that county are shipping live stock co-operatively, and are buying seed grain for its members. Waterloo also states that its clubs are doing similar work.

Maple sap has not been running so freely as in the average season.

#### Markets

Continued from page 761. Offerings for the week totaled 5,725 head, as against 5,725 for the previous week, and as compared with 4,200 head for the corresponding week a year ago. Quotations:

Shipping Steers, Natives.—Choice to prime weighty, \$17.50 to \$18.50; fair to good, \$16.50 to \$17; plain and medium, \$13 to \$15; coarse and common, \$10.50 to \$11.

Shipping Steers, Canadians. — Best heavy, \$15 to \$16; fair to good, \$13.50 to \$14.75; medium weight, \$12 to \$15; com-mon and plain, \$10.75 to \$11.

Butchering Steers.—Yearlings, choice to prime, \$15.50 to \$16.50; choice heavy, \$16 to \$16.50; best handy, \$14.50 to \$15; fair to good, \$12.50 to \$14; light and common, \$10 to \$11. Cows and Heifers.-Best heavy heifers,

\$13 to \$13.75; good butchering heifers,

\$12 to \$13.35; fair butchering heifers, \$10.50 to \$11; light common, \$8 to \$9; very fancy fat cows, \$11.50 to \$12; best heavy fair cows, \$10.50 to \$11; good butchering cows, \$9 to \$10; medium to fair, \$7.75 to \$8.50; cutters, \$6 to \$6.50; canners,/\$5.25 to \$5.50.

Bulls.—Best heavy, \$11 to \$12; good butchering, \$10 to \$10.25; sausage, \$8 to \$9; light bulls, \$7.50 to \$8.00.

Stockers and Feeders.-Best feeders, \$11.50 to \$12.50; common to fair, \$10 to \$11; best stockers, \$11 to \$12; fair to good, \$9.25 to \$9.75 common, \$8.75 to \$9. Milchers and Springers .- Good to best

small lots, \$100 to \$135; in carloads, \$90 to \$100; medium to fair, small lots, \$80 to \$85; in carloads, \$70 to \$75; common, \$50 to \$55.

Hogs .- Prices held to a high level last week, notwithstanding that receipts were quite liberal. Monday a few heavy hogs reached \$21, but the bulk had to take \$20.75; Tuesday's trade was steady; Wednesday the bulk brought \$21; Thursday the range on the best grades was from \$20.90 to \$21, and Friday the general market for good hogs was \$20.75. Pigs showed little change all week, selling from \$19.50 to \$20, good roughs landed around \$18, and stags ranged from \$15 down. Receipts for the past week totaled 22,700 head, being against 23,746 head for the week before, and 22,400 head for the same week a year ago. Sheep and Lambs .- Some heavy de-

clines were noted in prices last week. Monday top wool lambs sold up to \$20.75, and before the week was out, or on Friday, buyers landed the best at \$19.60 to \$19.65. Shorn lambs also ruled lower as the week advanced. Monday the best in the shorn line moved at \$17.75, and by Friday tops were down to \$16.75 and \$17. Cull lambs, both in the wool and shorn line, sold from \$2.50 to \$3 per cwt., under the tops. Sheep were strong the first part of the past week, but after Tuesday values on these were lower. Monday's sales included wool wethers up to \$17, with clips up to \$14.50, and the last half of the week showed wool wethers selling at \$16.50, with clips going from \$14 down. Best shorn ewes landed around \$12 and \$12.50, few the fore part of the week up to \$13. The past week's receipts

FOUNDED 1866

were 18,600 head, as compared with 16,061 head for the week before, and 11,400 head for the same week a year

Calves .- Last week started with top 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. Receipts the past week aggregated 7,600 head, being against 5,309 head for the week preceding, and 5,800 head for the same week a year ago.

**Cheese Markets.** 

New York, specials, 32c. to 33½c.; average run, 31½c. to 33c.; Montreal, finest easterns, 24c. to 25c.

#### Sale Dates.

May 14, 1919 .- Jos. Dorrance & Son, R. 5, Seaforth.—Dual-purpose Shorthoras.

June 12, 1919.—National Ayrshire Con-signment Sale, Springfield, Mass. June 13, 1919.—New England Ayrshire 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 pride of his heart and the envy of his village companions. He treated all inquiries 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 history.

"Sam," he said, "is it a real diamond?" "Wall," said Sam, "if it ain't I've been 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-som 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 clothes" clothes.

"I'll do nothing of the kind," she re-torted. "I'll get the same sort the rest of the women are wearing!"



Any Farmer can increase his income by selecting one or two calves each season to make baby beef



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



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 doubt. We admit there are meals sold on our Canadian market called "Calf Meal" that would make better pig feed, because they do not take the place of new milk, but our Royal Purple product

contains all the elements found in new milk.

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

Mr. Hicks fed 2,100 lbs. of ROYAL PURPLE CALF MEAL to all his calves last year.

If you will write us we will send you one of our new books, which tells you why our meal will produce calves like are shown in this advertisement, and compares it with other meals taken from Government Bulletin No. 388.

Royal Purple Calf Meal is sold everywhere by dealers. If your particular dealer does not handle it, write us, and we will tell you where you can get it.

Made by THE W. A. JENKINS MANUFACTURING COMPANY, LIMITED, LONDON, ONT.

d, as compared with the week before, and the same week a year

week started with top 20.50, and culls ranged Some heavy declines, noted after Monday, v day, when tops landed ranged from \$13 down. week aggregated 7,600 uset 5,309 head for the nd 5,800 head for the ago.

Markets.

cials, 32c. to 33½c.; c. to 33c.; Montreal, . to 25c.

Dates. Jos. Dorrance & Son, al-purpose Shorthoras. National Ayrshire Conngfield, Mass. New England Ayrshire

ale, Springfield, Mass. an, returned from the bin that contained a sual size. It was the and the envy of his He treated all ints to its value and its

gh scorn. er a week of basking sked Sam about its

is it a real diamond?" , "if it ain't l'ye been bllar."

had hardly been able and family properly, an invention—someiroplanes—which he d sum. ent to his wife with

" he cried, "you will ourself some decent

f the kind," she ree same sort the rest aring!"



e baby b<mark>ee</mark>f

f not youroy a chance ng for himAPRIL 17, 1919

THE FARMER'S ADVOCATE.

775

# 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

6

llent Cross-bred r (s h o w n in November 5th, ths and thir-90 pounds, and of London, for hey paid 25c. a s calf was fed Meal. It was adrew Hicks, of

LLY SUNDAY, Stock Show, on ction, for 25c. a ttoir. Billy was and weighed 1,330 t calf at his age Stock Show, He throughout the

OYAL PURPLE last year.

ou why our meal will her meals taken from

ular dealer does not

ON, ONT.

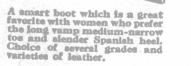
# The moderate priced FLOOR COVERING

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 floor covering made—superior to the best imported, yet much lower in price.

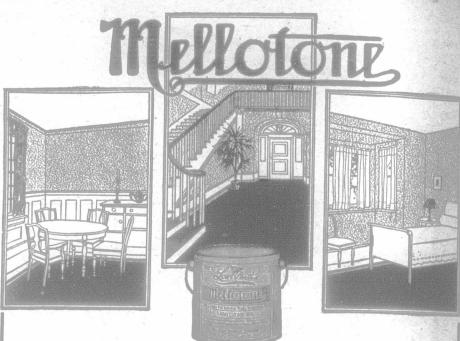
> At all the better stores where floor coverings are sold. MADE IN CANADA



776

# How to Buy Shoes

HERE 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.



# ur Walls

Use it instead of wallpaper, as it is more artistic, more sanitary, less expensive.

Use it instead of Kalsomine, as it is more durable and can be easily washed

Use it instead of ordinary paint, because, instead of being glossy and solid in color, it is dainty in tint, with the soft, velvety effect so much sought nowadays

range of delicate colors, exact reproductions of nature's harmony tones.

like fine paper.

At all Lowe Brothers' dealers. Write for color card and nearest

#### OWE **BROTHERS**. TORONTO

Dayton, New York, Boston, Chicago, Kansas City, Minneapolis, Atlanta

Use it because of its wonderful

Use it because it is very easy to use. Comes in cans of different size, goes on like paint, and looks

FOUNDED 1866

APRIL 17

ducts in such as th fruit and p feed in lar which the great savin Canada way of att export of we cannot which larg unprofitab industry an engaged. of quality, one that top prices quality sto purposes, females th do this and spread area the great enlist the would but would like stock of suj standing, r

must get operative Work along substantial place the liv

on a more e

Carleton

Co-Ope

EDITOR "T

in W

dealer's name.

This exp menced in 1 now for se object of th by men on in the erad of which w definite inf regarding th the various Province. experiments was very lit concerning t The wee Perennial Bladder Ca Mustard, weed or Oats and Cl Each spri numerous fa viting all wh some weeds with us in t ment outlin which is giv tion forms fo the leaflets. and return the carryin selected are supplied with report the re

of clover.

The follow

outlined for th

1. The use of Perennial

and cultivatio

by turnips, ra cating Perenn 3. The use

of Twitch Gra

destruction of

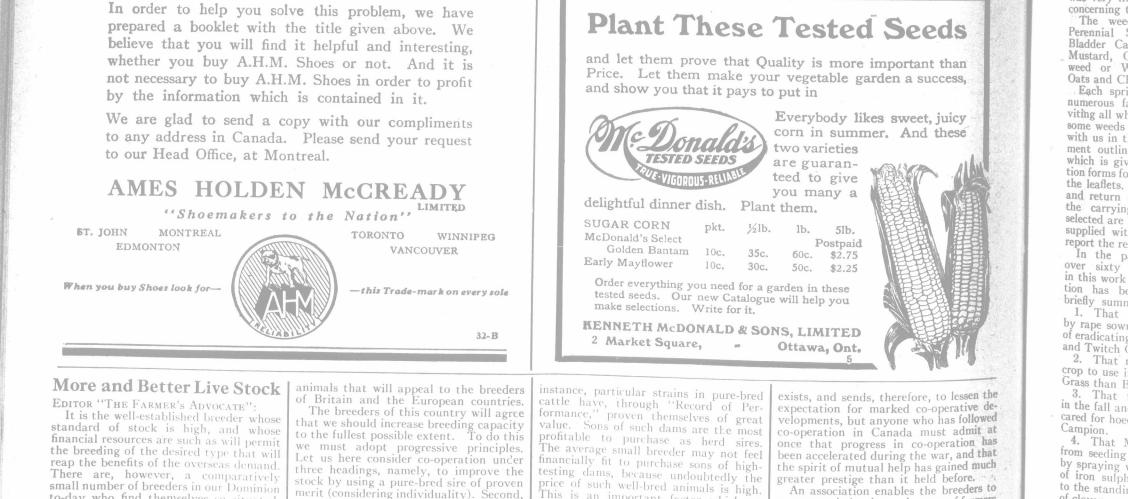
eradication of

Bell.

5. Method

4. A meth

2. A syst



An association enables the breeders to This is an important factor which an 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 buying overcome. This is undoubtedly true and it is probably natural to expect that, as a their individual sires and using them on 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 only applies to buying but to selling as well. We have association or club sales, to which members have the privilege of conturn over than ever before. While this signing individuals they may have for sale. This co-operative work may not through the individual breeder. For would have us believe, it nevertheless only apply to live stock but to all pro-

greater prestige than it held before.

There are, however, a comparatively small number of breeders in our Dominion to-day who find themselves so situated The matter thus evolves itself into one

in which the less fortunate breeder must take a greater interest. There is a large percentage of breeders, however, whose success is largely barred by the inadequate supply of capital at their disposal Possessed of the essential knowledge of breeding, feeding and management, yet lacking financial backing. A percentage of our stockmen find themselves handicapped. We must, therefore, adopt a system or breeding which will encourage more to attempt to build up the live-stock industry, with good breeding and vigorous stock by using a pure-bred sire of proven merit (considering individuality). Second, the keeping of good pure-bred females as far as possible, and lastly, to put the livestock business on a more substantial basis (through co-operation). There are numerous facts worthy of consideration under the headings just mentioned. local co-operative associations formed throughout our province can do much to establish a live-stock industry, such as must be the case if we expect to take full advantage of the opportunities before us. There are principles in live-stock breeding which are given more attention

through co-operative associations than

advantage is far from as marked as some

organized club through co-operation can

result of the war and its attendant sacri-

fices and discomforts, co-operative enter-

prises should multiply; nevertheless, it is

an accepted fact that although the war

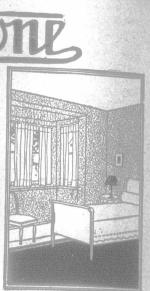
has brought about heavy increases in the

cost of doing things, it has also brought a

condition of affairs wherein farmers, as

well as other sections of the population,

have experienced a much larger cash



ause of its wonderful icate colors, exact re-of nature's harmony

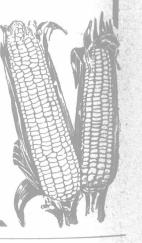
use it is very easy to in cans of different like paint, and looks

we Brothers' dealers. lor card and nearest



Seeds important than rden a success,

es sweet, juicy er. And these



#### APRIL 17, 1919

ducts in connection with agriculture, such as the handling of butter and eggs, fruit and potatoes, etc., also the buying of feed in large quantities for the farmer, of which the average farmer considers a great saving.

Canada may easily place herself in the way of attaining a powerful place in the export of live-stock business. But this 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. The producer of an article of quality, finish and uniformity is the 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 females that will deliver the goods. To do this and to do it thorughout a wide-spread area, as would be consistent with spread area, as would be consistent with the great overseas demand, we must enlist the services of the fellow "who would but can't." The farmer who would like to but cannot produce more stock of superior quality, due to financial standing, must help each other. They must get together; some form of cooperative breeding must be adopted. Work along these lines will not only bring substantial personal rewards but will place the live-stock production of Canada on a more sound and substantial basis. M. A. Powell.

Carleton Co., Ont.

#### **Co-Operative Experiments** in Weed Eradication.

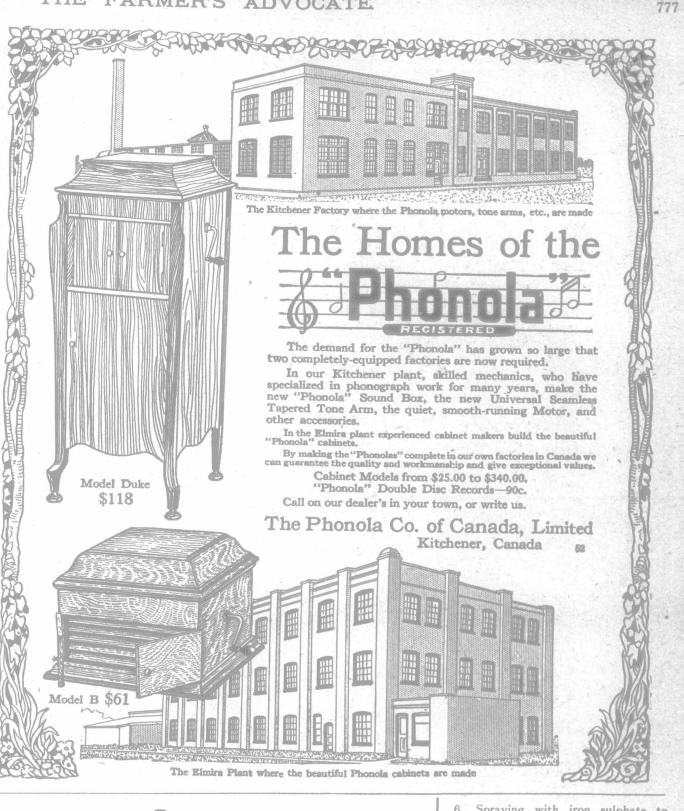
#### BY J. CLAZIE.

Editor "The Farmer's Advocate'': This experimental work was commenced 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 in the eradication of weeds, the results of which will furnish data from which definite information may be obtained regarding the best methods of controlling the various troublesome weeds of the Province. Before the results of these experiments began to accumulate there was very little or no definite knowledge concerning the eradication of weeds.

The weeds experimented with are 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 Chess.

Each spring leaflets are sent out to numerous farmers of the Province inviting all who have any of these troublesome weeds on their farms to co-operate with us in this work and try the experi-ment outlined for the particular weed which is giving them trouble. Applica-tion forms for the experiments accompany the leaflets. To those who fill in these and return them detailed directions for the carrying out of the experiment selected are sent and in the fall they are supplied with blank forms on which to report the results of their work. 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 briefly summarized as follows:-1. That good cultivation followed by rape sown in drills provides a means of eradicating both Perennial Sow Thistle and Twitch Grass.

#### THE FARMER'S ADVOCATE





6. Spraying with iron sulphate to destroy Mustard in cereal crops. 7. A method of cultivation for the

destruction of Ox-eye Daisy. 8. A method of cultivation and cropping for the suppression of Field Bind-weed or Wild Morning Glary (requires

two years to complete.) 9. A method of cultivation and croppirg for the eradication of Wild Oats

therefore, to lessen the marked co-operative deanyone who has followed Canada must admit at ess in co-operation has during the war, and that al help has gained much than it held before. enables the breeders to ing. A group of farmers ing. A group of lames partnership and use him is is a great economy several farmers buying sires and using them on en females. Moreover, r of stock is to be purommunity, a saving can naving a representative ase the stock. This not ouying but to selling as sociation or club sales, to ave the privilege of conals they may have for berative work may not re stock but to all pro-

2. That rape is a more satisfactory crop to use in the destruction of Twitch Grass than Buckwheat.

3. That thorough, deep cultivation in the fall and spring, followed by a well cared for hoed crop, will destroy Bladder Campion.

4. That Mustard may be prevented from seeding in oats, wheat and barley by spraying with a 20 per cent. solution of iron sulphate without serious injury to the standing crop or to fresh seedings of clover.

The following are the experiments outlined for this year.

1. The use of rape in the destruction of Perennial Sow Thistle.

2. A system of intensive cropping and cultivation, using winter rye followed by turnips, rape or buckwheat for eradicating Perennial Sow Thistle.

The use of rape in the destruction of Twitch Grass.

4. A method of cultivation for the

4. A method of twitch Grass. 5. Method of cultivation for the Campion or Cow eradication of Bladder Campion or Cow

#### nuise roel drivable cliich

Start them right. Pratts Baby Chick Food is a scientific food for Baby Chicks. Used from the start, it will save every well-born chick. Contains all the necessary elements for building strong, healthy chicks. Nothing but

Pratts, BABY CHICK FOOD

is needed for the first three weeks, except grit, drinking water, and just enough grain in the litter to make 'em exercise.

Not a scratch feed, but a perfectly blended, largely predigested food.

At your dealer s in popular priced packages, also moneysaving 50-lb. and 100-lb. bags.

#### Money Back If Not Satisfied.

Use PRATTS ANIMAL REGULATOR

The Guaranteed Spring-Time Stock Tonic.

PRATT FOOD CO.

Toronto.

**P-5** 

Write now for new Baby Chick Book. It's FREE.



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

10. A method of cultivation for the estruction f Chess.

All who have any of these weeds on their farm are invited to join with us in this work. By so doing they should be able to clean the field of the weed experimented with and demonstrate to their own satisfaction the effectiveness of the method tried and at the same time their results will be of great value to others. Full information can be obtained concerning these experiments by writing to the Director of Co-operative Weed Experiments, Ontario Agricultural Col-lege, Guelph.—J. E. Howitt, O. A. C., Guelph.

On the western plains the sheepman goes out with several thousand head and one human companion. The natural result is that the pair, forced on one another when they least want it, from the habit of hating each other.

An ex-sheepman while in a narrative mood one evening was telling a party of friends of a fellow he once rode with. "Not a word had passed between us for more than a week, and that night when we rolled up in our blankets he suddenly asked:

"' 'Hear that cow beller?'

"'Sounds to me like a bull," I replied. No answer, but the following morning I noticed him packing up. "'Going to leave?' I questioned. "Yes,' he replied. "What for?'

- "' 'Too much argument.' "

#### FOUNDED 1866

#### Live

APRIL 17

Extraor for Shire in Englan Babingley demand, a him offere realized 1 there fetcl and 400 g 450 guinea 500 and 4

I am tol the Armist 62.520 su sold for £2 of £33 4s. tural and but some Americantouched th trast, Shire 170 to 200 work alwa of guinea flourishing and the m Society nov prefixes ha past two v that the which they horses are what large tons of par the Shire I contained more tha The class Society in farmer, i. ( ing from prietors. in a flouris You hav Canada, b

and the popular in 19, held by Cambridge guineas, or Top price brood sow 1916, and ners at th 1916. Ot guineas, b ham, and airman wl many valo guineas fo

At a sal of that n guineas f Weston & Conquest, and a wel Other go guineas p there was breeders.

A villa his parish, John." he

you at c

answered

"Hain't

"Well,"

we can r

home whi

I will ha

following at church

for some

"Well, excuse fo

How is it

you mean

days, an'

them tro

more Sur

they're m

Johnnie the corne

pensively perfect," onc perfe ''Who thinking 1 You,"

"when yo

"Look like a ma

him.

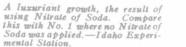
"Thank

The tro

# 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



778

Nitrate of Soda is a refined product extracted from the surface crust of the rainless deserts of Chili in South America. Hundreds of thousands of tons of it have been used annually in British and European agriculture for a long period and this fact explains in a large measure the remarkably high yields attained on their century-old soils.

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 Fertilizers-in its most available form. It far surpasses tankage, blood meal, feed cake refuse and such nitrogenbearing fertilizers in this respect, and also in its economy. It is recognized as the Nitrogen plant food par excellence.

Try a Spring Tonic for Your Crops:

## Some Advantages and Uses of Nitrate of Soda

It stimulates the rapid growth and early maturity of most garden crops.

It 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.

It improves pastures and meadows. Applied 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 soil bacteria. The Nitrate keeps the plants growing until the soil is stirred into full life.

It provides the highest-priced ingredient of complete fertilizers. Phosphoric Acid and Potash which are required by plants as well as Nitrogen, are not so costly Nitrogen nor are they so often lacking in our soils as is Nitrogen.

There was no Nitrate of Soda used on this crop. The stalks are weak and the yield is much less.—Idaho Experimental Station.

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. Trees in the orchards attain a richer leafage. Vegetables in the garden shoot ahead. Lawns are made greener and richer.

#### Use Nitrate of Soda as a Spring Plant Food

The element of plant food first exhausted in soils is Nitrogen and in many cases a marked increase in crops is obtained by top-dressings of Nitrate alone. However, the skilful farmer will use it with Phosphoric Acid and Potash as the condition of the soil and the necessity of the crop indicates.

A comprehensive report on "Nitrate of Soda, its nature and use in agri-culture," has been prepared by the

You have seen small patches of luxuriant growth in pastures due to the 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 manure-water-This is the work of Nitrogen also.

It forms basis of fertilizer mixtures. It is estimated that ready made fertilizers cost from 25 to 35 per cent more than home-made mixtures. The scientific agriculturist will buy his supplies of Nitrate of Soda, Acid-Phosphate and Potash separately and make such mixtures as he knows his soils and crops require.

Dominion Department and appeared in last week's edition of this publication. It has been prepared by Frank T. Shutt, M.A.D.Sc., Dominion Chemist, and B. Leslie Emslie, F.C. S., Supervisor of Investigational Work 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 Brighton, Cobourg, Trenton, Nobel and Sulphide. The Price is \$82.00 per net ton in carload lots, f.o.b. cars at shipping point. The Board reserves the option 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. Minimum 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 orders should be made out in favor of Imperial Munitions Board, and must be payable at par in Toronto. In ordering please give full shipping directions including your Post Office address, name of railway and of your nearest railway station. All shipments will be made promptly. Freight charges will be collected on

# Imperial Munitions Board, 56 Church St., Toronto, Ont.

12

APRIL 17, 1919

#### Live Stock Notes From England.

Extraordinary prices are being made for Shire horses at repository sales held The stock of the stallion England. Babingley Nulli Secundus is in remarkable demand, and a three-year-old stallion by him offered at Peterborough Repository realized 1,300 guineas. Others offered 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 £33 4s. Heavy draft horses for agricultural and street work have averaged £55, but some have made £100, and one, an American-bred Percheron gelding, has touched the 250-guinea mark. As a contrast, Shire geldings generally range from 170 to 200 guineas; those for heavy street work always fetching the second century of guineas. Shire horse breeding is flourishing apace in England and Wales, and the membership of the Shire Horse Society now stands at 5,700. Some 5,600 prefixes have been registered during the past two years, which would go to prove that the proprietors of those prefixes which they tack on to the names of their horses are intending to breed on a some-what large scale. It took five and a half tons 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 farmer, i. e., the man who rents his holding from one of the large landed pro-The Shire breed, generally, is prietors. in a flourishing condition

You have few Large Black pigs over in Canada, but they are a splendid breed, and the type is just now growing very popular in Éngland. At a sale on March 19, held by T. F. Hooley, at Dry Drayton, Cambridge, 146 pigs realized 4,495<sup>1</sup>/<sub>2</sub> guineas, or a general average of £32.7s. 3d Top price was 175 guineas given for the brood sow Drayton War Lady, farrowed 1916, and one of a pen of first prize winners at the Manchester Royal Show in 1916. Other sows made 80 and 90 guineas, but Alderman Ball, of Notting-ham, and father of Ball V. C., the young airman who was killed after performing many valorous feats in the war, gave 125

guineas for the gilt Drayton Ladylike. At a sale of Hereford bulls, in the cit of that name, Lord Cawley paid 900 guineas for the first-prize winner H. Weston & Sons Bound's Imperialist by Conquest, out of Gossip, a Sentry cow and a well-fleshed bull full of substance. Other good prices were 510 and 400 guineas paid for young bulls, for which there was an active demand among home breeders. ALBION.

A village clergyman, walking round his parish, met an old parishioner. "Well, John," he said, "how is it I have not seen

# SARNIA FENCE

THE FARMER'S ADVOCATE.

# Lower Prices on Fencing

TO make sure that you get your fencing when you want it this Spring, we advise, yes, urge you to place your order now or at the earliest possible date. We can make prompt shipments now. We are reasonably certain that the demand this Spring will far exceed our capacity, in fact, the capacity of any factory in Canada. Don't be one of those belated farmers who places his order at the eleventh hour when the rush season is on, because no human agency can overcome possible transportation 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 Construction day" that comes along. Better be safe than sorry. Place your order now. Our prices quoted mean Government 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 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.C.L. shipments. Fence put up in 20, 30, and 40 rod rolls.

**HEAVY WEIGHT STYLES** Made throughout of Full Government Gauge No.

9 Hard Steel Wire. 4-33-0-Ranch Fence. 4 line wires, 33 in. high, 9 stays per rod, spacing 10, 11, 12. Weight 31c per hundred rods, 550 lbs. 5-40-0—Horse and Cattle 5 line wires, 40 in. Fence. high, 9 stays per rod, spacing 10, 10, 10, 10. Weight per hundred rods, 650 lbs. 37c 6-40-0—Horse and Cattle Fence. 6 line wires, 40 in. high, 9 stays per rod, spacing 7, 7, 8, 9, 9. Weight per hundred rods, 750 lbs..... **43c** 7-40-0-Horse and Cattle Fence. 7 line wires, 40 in. high, 9 stays per rod, spacing 5, 6, 6, 7,7½, 8½. Weight per 100 **49c** rods, 850 lbs.. 7-48-0—Horse and Cattle Fence. 7 line wires, 48 in. high, 9 stays per rod, spacing 5, 6, 7, 9, 10, 11. Weight per hundred rods, 900 lbs...... 8-40—Sheep and Hog Fence. **51c** 8 line wires, 40 in. high, 12 stays per rod, spacing 3, 3<sup>3</sup>/<sub>4</sub>, 4<sup>3</sup>/<sub>4</sub>, 5<sup>1</sup>/<sub>2</sub>, 7, 8, 8. Weight per 100 rods, 1,050 lbs. **60c** 8-48—General Stock Fence. 8 line wires, 48 in. high, 12 stays per rod, spacing 4, 5, 6, 7, 8, 9, 9. Weight per hundred rods, 1,100 lbs. 63c 9-48-0-General Stock Fence. 9 line wires, 48 in. high, 9 stays per rod, spacing 3, 4, 5, 5, 6, 8, 8, 9. Weight per hundred rods, 63c 1,100 lbs.

8, 9. Weight per hundred rods, 1,200 lbs..... 69c 10-50-Hosse, Cattle, Sheep and Hog Fence. 10 line wires, 50 in. high, 12 stays per rod, spacing 3, 334, 332, 434, 532, 6, 8, 8, 8. Weight per hundred rods, 1,325 lbs..... 76c **MEDIUM WEIGHT STYLES** The following styles are made of No. 9 top and bottom wires, and No. 12 intermediate and stay wires of full Government gauge, and galvanized to stand an acid test: 6-49-16-Ch.eap Pasture Fence. 6 line wires 40 in. high, 16 stays per rod, spacing 7, 7, 8, 9, 9. Weight per hundred rods, 9, 9. Weight F 570 lbs. **7-26-16—Hog Fence.** 7 line wires, 26 in. high, 16 stays per rod, spacing 3,31/4, 31/2, 43/4, 51/2, 6. Weight per hundred 9, 9. 35c 36c 7-42-16-Sheep and General **Purpose Pasture Fence.** line wires, 42 in. high, 16 stays per rod, spacing 6, 7, 7, 8, 8. Weight per hundred rods, 640 **40c** lbs. 8-34-16 - Hog and Sheep •Fence. 8 line wires 34 in. high, 16 stays per rod, spacing 3, 3<sup>1</sup>/<sub>4</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>3</sup>/<sub>4</sub>, 5<sup>1</sup>/<sub>2</sub>, 6, 8. Weight per 100 rods, 670 lbs..... 42c 9-42-16—A General Purpose Fence at a Low Price. 9 line wires, 42 in. high, 16 stays per rod, spacing 3, 3¼, 3½, 4¾, 5½, 6, 8, 8. Weight per hundred rods, 750 lbs..... 47c

high, 24 stays per rod, top and bottom wire No. 9, filling No. 13 hard steel wire, spacing 136, 136, 136, 136, 138, 136, 2, 214, 212, 3, 312, 4, 412 412, 5, 5, 5. Weight per hundred rods, 1,225 Pric 80c lbs. 20-60-P-Stock and Poultry Fence. 20 line wires, 60 in. high, 24 stays per rod, top and bottom wires, No. 9 filling No. 13 hard steel wire, spacing 1%, 1%, 1%, 1%, 1%, 1%, 1%, 2, 2%, 2%, 3, 3%, 4, 4%, 4%, 5, 5, 5, 5, 5. Weight per hundred rods, 1 325 he 88c 1,325 lbs. Farm Walk Gate 3' x 48"...... 3.50 Farm Walk Gate 31/2' x 48"......3.60 Farm Drive Gate 12' x 48"......7.50 Farm Drive Gate 13' x 48"......7.75 Farm Drive Gate 14' x 48"......8.00 Barb Wire, 2 pt, weight 78 lbs. 4.85 per 80 rd. spool. Barb Wire, 4 pt. weight 86 lbs. 5.00 per 80-rod spool. Staples, galvanized, 13/", per 1.75 25-lb. sack, each ... Brace Wire, galvanized, dead draw, 15-ft. chain ... Sarnia Lawn Fence, Style 16c C., galv. 42" high (per ft.)...... Sarnia Lawn Fence, Style 15c BB. galv. Flower Bed Border, 12 inch 8c (per ft.) Flower Bed Border, 18 inch 9c (per ft.) Lawn Gates, Style C., 42" high, 3' or 3½ Lawn Gates, Style BB., 42" high, 3' or 3½ 3.50 3.50

779

2.8.9

FOUNDED 1866

Nitrate of Soda used The stalks are weak s much less.—Idaho

plies Nitrogen to dily than does astures are stimrowth. Strugpring crops are do not have to to unlock the eld in the soil. attain a richer in the garden are made green-

#### f Soda as nt Food

t food first exitrogen and in ncrease in crops sings of Nitrate skilful farmer horic Acid and of the soil and o indicates.

ort on "Nitrate d use in agri

epared by the and appeared ared by Frank c., Dominion Emslie, F.C. igational Work ite to-day for a It shows the tilizers in pure

at de. ion

ing

be ley to. of on

12

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 I will have them sent to you to-day."

"Thank'ee, sir," said John.

The trousers were duly sent, and the following three Sundays John was seen at church. Then, after being absent for some time the alternation and 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. "I like a man to speak plain. I know what you mean; you're thinking about them trousers. I come to church three Sun-days, an', if you don't think I earned them trousers, just tell me how many more Sundays I shall ha' to come afore they're mine alterether!" they're mine altogether!"

Johnnie Jones was doing penance in the corner. Presently he thought aloud pensively. "I can't help it if I am not perfect," he sighed. "I've only heard of one perfect boy in my whole life." "Who was that?" his father asked,

thinking to point out a moral.

"You," came the reply, plaintively, "when you were little." — "Waif."

9-48-OS—Special Horse and and Cattle Fence. 9 line wires, 48 in. high, 9 stays per Weight per hundred rods, 1,100 63c lbs 9-48-General Stock Fence. 9 line wires, 48 in. high, 12 stays per rod, spacing 3, 4, 5, 5, 6, 8,

14-48-16 — Special Garden Fence. 14 line wires, 48 in. high, 16 stays per rod, spacing 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4, 4, 2, 4, 4, 2, 4, 4, 2, 5, 5, 5, 5, 5, 2. Weight per hundred rods, 1,060 lbs..... 66c **POULTRY FENCES** 18-50-P-Stock and Poultry Fence. 18 line wires, 50 in.

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 hand-

some saving.

Do you wish to share in the benefits that so many others have derived from this "Direct Buying Policy?" We solicit

your 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 the U. S. A. 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 Ontario. 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 farmer's friend. Thousands of Canadian farmers are regular patrons of ours. Your turn next. Various kinds of field, farm and pasture fence, lighter weights for garden and orchard purposes, special poultry fence, lawn fence and gates in variety and styles to suit the requirements of our farmer friends in Canada. Made in Canada for Canadian farmers, sold direct on

RSFRIENDFE

our "save-you-money" plan. Heed our advice. Order now. Have your fencing on hand when you need it, and at our exceedingly low prices quoted above. Write to-day.

OUR POLICY—To sell the Farmers of Canada the BEST FENCE it is possible to make at the LOWEST possible Price. Send your orders to our Factory. Address us SARNIA FENCE CO. Sarnia, Ontario

-

# Look for the Rennie Seed Display

RENNIE'S SEEDS

It's time to think about planting your garden. Make your selections now.

#### **VEGETABLE SEEDS**

der

BEAN-Improved Golden Wax Lb. 65c., ¼ lb. 20c., Pkt. 10c. BEAN-Scarlet Runner Lb. 90c., ¼ lb. 30c., Pkt. 10c. BEET-Detroit Dark Red Turnip ¼ lb. 85c., Oz. 25c., Pkt. 10c.

780

SWISS CHARD-½ lb. \$1.25, Oz. 40c., Pkt. 10c. CABBAGE-Early Winnigstadt 1/2 lb. \$3.00, Oz. \$1.00, Pkt. 10c.

CARROT-Chantenay Half-Long 1/2 lb. 90c., Oz. 80c., Pkt. 10c.

CARROT-Early Gem or Oxheart ½ lb. 90c., Oz. 30c., Pkt. 10c.

WEET CORN—Golden Bantam Lb. 55c., ¼ lb. 20c., Pkt. 10c.
CUCUMBER-London Long Green ¼ lb. 75c., Oz. 25c., Pkt. 10c.
CUCUMBER—Chicago Pickling ¼ lb. 75c., Oz. 25c., Pkt. 10c.
LETTUCE—Select Big Boston ¼ lb. 31.00, Oz. 35c., Pkt. 10c.
LETTUCE—Select Big Boston ¼ lb. 41.00, Oz. 35c., Pkt. 10c.

LETTUCE-Nonpareil Cabbage-

1/4 lb. 90c., Oz. 30c., Pkt. 10c.

CITRON-Red Seeded for Preserving 1/4 lb. 75c., Oz. 25c., Pkt. 10c.

ONION-Large Red Wethersfield 1/2 lb. \$1.00, Oz. 35c., Pkt. 10c.

RADISH—Long White Icicle 1/2 lb. 65c., Oz. 20c., Pkt. 10c. RADISH-Rosy Gem, Whitetipped ¼ lb. 65c., Oz. 20c., Pkt. 10c.

RADISH—French Breakfast ¼ lb. 65c., Oz. 20c., Pkt. 10c.

ONION-Yellow Globe Danvers 1/2 lb. \$1.25, Oz. 40c., Pkt. 10c.

PARSNIP—Hollow Crown ½ lb. 60c., Oz. 25c., Pkt. 10c.

PARSLEY-Champion Moss

Curled 3/4 lb. 75c., Oz., 25c. Pkt. 10c.

GARDEN PEAS-American Won-

Lb. 45c., 1/4 lb. 20c., Pkt. 10c.

GARDEN PEAS-Improved Strat-

agem Lb. 50c., ¼ lb. 20c., Pkt. 10c.

10. 05c., 02. 20C., FR. 10c.
 TOMATO—Bonny Best ½ lb. \$1.75, 0z. 60c., Pkt. 10c.
 TOMATO—Earliana ½ lb. \$1.75, 0z. 60c., Pkt. 10c.
 TURNIP—Orange Jelly or Golden Ball

11 1b. 75c., Oz. 25c., Pkt. 10c. SWEDE TURNIP-Rennie's Prize Purple Top Lb. \$1.40, ½ lb. 75c., ½ lb. 40c.

HERBS-Sage Oz. \$1.10, Pkt. 10c.



We 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

Tread The Paragon Tread, black with gray side-walls,

Maltese Cross Paragon

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

Branches:-Halifax, Montreal, Ottawa, Toronto, Ft. William, Winnipeg,

Regina, Saskatoon, Edmonton. Calgary, Lethbridge, Vancouver, Victoria



## APRIL 1

FOUNDED 1866

111

Ques 1st—Que "The Fa department 2nd—Que plainly wri and must b address of t 3rd—In especially n wise satis 4th-Wh veterinary enclosed.

Horse | lost flesh rise witho and then feeding hi flesh, and colic. Ans.-

Have his of powder ginger and heaped t Feed on g couple of daily. G digestion of grain a or work.

Seven-y

spells in Ans.--] definitely Thể sym coffin joi disease, lameness ment con blistering a blister r of mercur 2 oz. vas inches hig that she o blister wel and in 24 turn in a until the and bliste once mont or until th have her will be w may be in

About my horses running c in and he were stre for it. H ago and leg is swel

Ans.—A by a veter it would interfere In attend

1. Is i

2. A at

Ans.-1.

FLOWER SEEDS

NASTURTIUM—Climbing Mixed ½ 1b. 75c., Oz. 25c., Pkt. 10c. NASTURTIUM—Dwarf Mixed ½ 15. 90c., Oz. 30c., Pkt. 10c. ASTER-Select Comet, Mixed

BALSAM-Finest Double Mixed Pkt. 10c. CARNATION-Choice Mixed Pkt. 10c

Colors Pkt. 10c.

MORNING GLORY-Climbing Pkt. 10c.

SWEET WILLIAM-Finest Mixed Pkt. 10a MARIGOLD-French Mixed Pkt. 10c SWEET MIGNONETTE-Grandiflora Pkt. 10c.

PANSY-Choice Mixed Pkt. 10c. PETUNIA—Hybrids Mixed Pkt. 10c. SWEET PEAS-Finest Mixed O7. 20c., Pkt. 10c TEN WEEKS STOCKS-Choice Mixed Pkt. 10c. VERBENA-Finest Mixed Pkt. 10c. WILD FLOWER GARDEN Pkt. 10c

Should your dealer be unable to supply all the seeds you require, write us direct.

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

THE WILLIAM REI COMPANY E LIMITED N N

KING AND MARKET STS., TORONTO ALSO AT MONTREAL, WINNIPEG, VANCOUVER



111

Intr

NU

tese Cross Paragon

ray side-walls.

ial lock, which

earance of any

r, Limited

arness

d reach for rough, ber woods. Don't the price by using

Ft. William. Calgary,

NTO

Tread.

#### APRIL 17, 1919

#### Questions and Answers.

1st-Questions asked by bona-fide subscribers "The Farmer's Advocate" are answered in this

to "The Farmer's Advocate" are answered in this department free. 2nd—Questions should be clearly stated and plainly written on one side of the paper only, and must be accompanied by the full name and address of the writer. 3rd—In veterinary questions, the symptoms especially must be fully and clearly stated, other-wise satisfactory replies cannot be given. 4th—When a reply by mail is required to urgent veterinary or legal enquiries, \$1.00 must be enclosed.

veterinary 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 feeding him well but he does not gain in flesh, and if I feed him any more he takes colic

2

Ans.—This is due to faulty digestion. Have his teeth dressed. Mix equal parts of powdered sulphate of iron, gentian, ginger and nux vomica, and give him a heaped tablespoonful 3 times daily. Feed on good hay and rolled oats with a couple of carrots or a mangle or turnip daily. Give him regular exercise and as digestion improves increase the quantity of grain and also the amount of exercise or work

#### Periodic Lameness.

Seven-year-old mare is subject to lame SUB. spells in her right fore leg.

Ans .- It is not possible to diagnose definitely without further particulars. The symptoms, to some degree, indicate coffin joint lameness, called navicular 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 of mercury and cantharides mixed with 2 oz. vaseline. Clip the hair off for 2 inches high all 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 can have her examined by a veterinarian it will be well to do so, as our diagnosis may be incorrect.

#### Lame Horse.

About the middle of January one of my horses became lame in the stifle while running 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 ago and gave me another blister. His leg is swelled up now and he is still lame.

Ans.-As the patient is being treated by a veterinarian in personal attendance, it would be presumptous and unprofessional for another veterinarian to interfere in any way. The practitioner in attendance is in a much better position

#### THE FARMER'S ADVOCATE.



A. RAMSAY & SON COMPANY Makers of Paints and Varnish since 1842 MONTREAL Toronto Vancouver

"Safety First" A handy and use-ful booklet on-HOULD be the motto of every investor "PROFITS FROM SAVINGS" - not a dollar has ever been lost in which gives some very sound finan-cial advice will be sent to you free on request. Write for it to-day. STANDARD RELIANCE  $5^{1}_{2}$  % Mortgage Corporation  $5^{1}_{2}$  % Debentures  $5^{1}_{2}$  % HEAD OFFICE 10-12 KING ST. EAST TORONTO BROCKVILLE NEW HAMBURG BRANCH & AYR CHATHAM WOODSTOCK

liable to the extent of the difference in

2. If B refuses to repair the fence A might call in the township fence viewers to decide the type of fence to erect over the stream.

Feeding Hens, a Mash.

I am feeding my hens a mash of ground barley and boiled potatoes daily. Some 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 correct? A. C. B.

Ans.-It is generally considered that feeding heavily on wet mash reduces the hatchability of the eggs. Experiments at the College have borne out this fact. Feeding a dry mash is not so injurious.

Lord George Wellesley said at a luncheon:,

"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 show-ing in numberless ways his resolve to have a better share of the good things his 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.

"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 "''Wait a bit, ma,am!' "A gaunt chap had risen from a front

"A gaunt chap had risen from a front eat. He was pointing his long foreseat.

seat. He was pointing his long tore-finger at the lady and scowling. "'Wait a bit ma'am!' he repeated. 'What I want to know is, who gets the



#### ess

t break or rip, no The outfit con-Back Pads, Belly ridles and Canvas . (West of Fort set of four. (\$6.50

oke Ropes to reomplete with snaps ides: Per pair (West of Fort 1 \$1.60.

our dealer for them. cannot supply you rite us direct giving r's name.

Griffith & Son Waterloo Street Ontario đ, 11

miles. d much of a provider,

nothin' else, ma'am. ome new furniture prononey; he gwine to git n' he go to work; he n' de job suits him. I ovidin' man in all mah

to diagnose and treat properly than one who has not seen the case. From the history of the case there is no doubt that 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 many cases of this kind the owner must 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.

1. Is it against the law for a bull to 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 into A's pasture and served a registered cow. Is C liable for damages?

2. A and B are neighbors. A built 5 rods more than his share of the line fence, with the understanding that B was to keep up a water gap: However, he did not make it sufficiently tight to stop the cattle. What steps can A take to get B to build a proper water gap?

Ans.-1. According to law a bull cannot be allowed to run at large, but we do not believe that this applies to a bull running in an enclosed pasture lot. C is

## The book that shows by plainly-told directions how easy it is to build with Concrete

Almost anything you wish to build of concrete 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 to follow.

Concrete construction is not only ideal construction for the farm—it is also easy construction.

and gravel, which you have at hand, and "Canada" Cement which is sold by dealers everywhere.

Begin now to replace your temporary buildings with Concrete buildings. The first step is to secure our book—and that you may do by simply The materials it calls for are handy—sand writing for a copy—the book is free to any farmer.

#### CANADA CEMENT COMPANY LIMITED 841 Herald Building Montreal

Litoroture

Montreal Calgary Sales Offices at Toronto Winnipeg Canada Cement can be secured from over 2,000 dealers in nearly every city, town and village in Canada. If you cannot locate a convenient dealer, write our nearest Sales Office.

CANADA CEMENT

CONCRETE

FOR PERMANENCE ON

Sind

041

#### **CAN'T PUNCTURE** NOR BLOW OUT AYTON AIRLESS TIRES in

782

the past 6 years have been used by thousands of owners of

light passenger and delivery cars in all parts of the civilized world, and have conclusively demonstrated:

1st-They can't puncture nor blowout. 2nd - They ride as smoothly as

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 the late George Westinghouse and

Edward Grey, formerly Chief Engineer of the Ford Motor Company. Piers of live, elastic rubber built about one inch apart inside the casing and vul-canized or welded to it take the place of an

inner tube.

Nothing can happen but wear. We have standardized on 30 x 3 and 30 x 3½ and the price is right. We sell direct where we have no dealer. We want an exclusive dealer in every county-tire experience not necessary. Ex-cellent chance to build up in a protected territory a very profitable business either by itself or as a side line. THE MAYTEM DELEGER ARE SO RAYTEM CHECK

THE DAYTON RUBBER MFG. CO., DAYTON, OHIO

MAIL THIS COUPON TODAY \_ The Douter Data are

ł	THE DAYOUR BUDDER MIR. Co.	
ſ	Dept F.A. Dayton, Ohio	
	Please send without obligation and information on Dayton Airler as checked below:	booklet 18 Tires
	For Ford pleasure cars. For light delivery cars. Proposition to dealers.	
	Nemo	

Address

County. State

## **KITCHEN'S** "Railroad Signal" WORK SHIRTS REAT for wear and

easy to wash. On and off like a coat. Roomy and comfortable. Double and triple stitching at wearing points; strong

#### Questions and Answers. Veterinary.

#### Unthrifty Calf.

Calf ten months old has a poor appetite, and will not drink cold water. The chill must be taken off. It also grits its teeth, and the eyes discharge water. It occasionally has diarrhoea. SUB.

Ans .--- The calf has chronic indigestion Give it a laxative of 8 oz. raw linseed oil. Then mix equal parts of powdered gentian, ginger, nux vomica and bicarbonate of soda and give a teaspoonful 3 times daily. Feed on food of first-class quality. Take the chill off the water and add to it 1/4 of its bulk of lime-water.

#### Inappetence.

About 5 weeks ago my 7-year-old ram appeared to go off his feed, and has steadily continued to appear to not have any desire for food. He has lost 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. T. L. K.

Ans.-It is possible that there may be some derangement of the teeth or other organs of the mouth that you do not ecognize. It might be well, if convenient. 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 not inability to masticate or swallow. He may be affected with some chronic disease of the digestive organ, possibly tuberculosis, for which nothing can be done. All that we can suggest is the administration of tonics. Mix equal parts of powdered sulphate of copper gentian, ginger, nux vomica and bicarbonate of soda, and give him a heaped teaspoonful in  $\frac{1}{2}$  pint new milk 3 times daily. Until he commences to eat some t will be necessary to endeavor to sustain him by drenching him with boiled flaxseed or oatmeal gruel. Great care is necessary in drenching, as if the fluid is poured into the mouth in too large quantities, or if he refuses to swallow readily and considerable fluid be introduced some of it will pass down the windpipe and cause serious trouble, usually either suffocation, or mechanical bronchitis, which usually causes death, hence when drenching be careful to see that he swallows freely.

#### Skin Trouble.

1. Some of my cattle are bad with mange. It commences on the head and around the eyes, spreads to the neck and appears in spots the size of a dime all over the body. These spots enlarge and

<u> 1140</u> THE FARMERS or orders of \$25.00 or more in Ontario 1866SEED CORN OUR GUARANTEE:-Seed Corner you are given 10 days after arrival at your station in which to test any corn purchased from us. If you find it unsat-isfactory, return it to us within the above limit, and we will refund purchase price. The reason for this guarantee is that we know that the seed will germinate 90% or better-we have tested it. Our Prices on Cob-Bags Free. Per Bus. 70 lbs. \$4.25 3.25 Bailey.... 3.75 Improved Learning.... Longfellow..... White Cap..... Golden Glow.... If you order 25 bushels of corn, or more, we will allow a reduction of 25c. per bushel. Cotton Bags For Clover and Timothy, 65c. each. Bus. MANGEL SEEDS Prizetaker, Giant Half Sugar, Vellow Intermediate, Yellow Leviathan, Mammoth Long Red. Al seed, Ger-mination, 112 to 160 per cent. Price, 60c per lb. Postpaid, 65c. per lb. 25 lbs. or more at 50c. per lb. .....\$32.00 7.75 7.25 6.50 SWEDE TURNIPS . 27.00 Prizetaker, Canadian Gem, Lord Derby, Price \$1.00 lb., Postpaid, \$1.10 lb. 24.00 25 lbs. or more at 80c. per lb. 22.00

ALSYKE & TIMOTHY Mixture Extra No. 1 for purity. 10% Red Clover 55% Alsyke. 35% Timothy.......25c. per lb.

#### **GARDEN SEEDS**

Get your wife to make out your garden seed order from our catalogue. Liberal packages, strong, vigorous seed (tested for germination) and the most reasonable on the market. We buy direct from the grower and sell direct to you. No middleman's profit.

GEO.KEITH & SONS 124 KING ST. E TORONTO

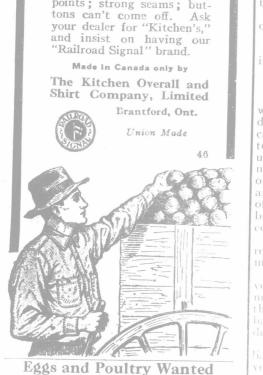
# Since 1866 The Farmer's Advocate and Home Magazine

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



FOUNDED 1866

APRIL 1



We have a big demand for eggs. Also for good poultry, either alive or dressed. We prefer to re-ceive heavy hens alive, and young cockerels either alive or dressed. It will pay you to sell to C. A. MANN & CO. 78 King Street London, Ontarlo

Will this disappear when they are on pasture. Is the milk fit for use?

4. Is there any danger of me contract ing the disease?

5. Are horses liable to contract it?

Ans.-1. The symptoms indicate ring worm. It is very contagious, hence the diseased should be isolated and great care be taken to not carry the infection to other cattle on hands, clothing, stable utensils, etc. Get a quantity of oint-ment made of the proportions of 2 drams of white helebore to an ounce of vaseline and dress with this twice daily. Instead of this you may use tincture of iodine, out where there is so much surface to over the ointment is the most convenient. It is not probable that a thorough ecovery will result without careful treat

If the teats and udder are not involved and the milker is very careful, the milk will be fit for use. The quality of he milk is not affected by the trouble. at there is danger of contamination uring or after milking.

1 and 5. Both man and animals are table to contract it. It is due to a regetable parasite, and by carefully ashing hands, etc., after attending to he patients a person can avoid infection but horses coming in contact with the infection are very liable to contract the trouble.

farming industry on a sound basis.

#### What does the Farmer's Advocate and Home Magazine do for YOU?

Every week, it gives you information on the work you are doing. It is timely information, and you don't have to go through a lot of books or ask a lot of people to find out what you want to know The Editors, are practical farmers, and they know just what your difficulties are at each season of the year, and they give you just what you want to know about every branch of your work,

"The Farmer's Advocate" has a farm of 235 acres of its own, and one of the editors lives on and manages this farm. This is one means by which the editors keep in close touch with

#### SUBSCRIBERS

You approve of the work the Farmer's Advocate and Home Magazine is doing. Help your neighbor to receive the same benefits.

Send in his name with the sum of \$1.50 he will give you, and we will extend your own subscription four months free of charge.

For the names of three new Subscribers, and the sum of \$4.50, we will advance the date on your own label one year free.

Varie White B

men Cloy Cloy Mai

er 1 O.A

whe Seed in 5

Cott lasse Suga Dair

etc. We full

supp

CR

We \$25

Mixed T Mixed T Terms at 65c. e sary. V return a ject to g Т

Stouff

Nu Wł First clas for (

The RIDGEVI

Reg O.A.C. No. per bus., bag test, 100%. H. H. HOW



GE R.R. No. 1

Ontario

or better-we

Per Bus. 70 lbs. \$3.75

llow a reduction of

**on Bags** Timothy, 65c. each.

TURNIPS nadian Gem, Lord .00 lb., Postpaid,

ags Free Per Bus.

gistered 1.65 od Sample..... 1.30 CATALOGUE

rom our cata-

ested for ger-

We buy direct

man's profit.

**4 KING ST.** E

ORONTO

ate and

attles of the Canprice for farm

oduces, the most

ne farmers them-

ne

at 80c. per lb.

L SEEDS nt Half Sugar, Yellow e llow Leviathan, Red. Al seed, Ger-160 per cent. Price, aid, 65c. per lb.

..... 3.75

test t unsata it, and we guarantee is

ng..

APRIL 17, 1919

#### THE FARMER'S ADVOCATE.

#### 783

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

IS BRINGING INTO CANADA A SELCT LOT OF

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 acquisition to the horse industry of the Dominion. It has been conceded that the get of Percheron and Belgian stallions are in great demand on ac-count of their weight, finish, quality and early maturity. There never was a better time than at pres-ent to breed and raise good draft geldings and marces, and the kind to raise are horses weighing 1,600 lbs. and over. If you raise that kind you will always find a ready market for same at prices ranging from \$225 to \$300 and up. As soon as things are settled in Europe there is no question but what there will be a great demand there for draft geldings and mares, especially in Germany, France, Belgium and Denmark, and there are no other countries which can supply these horses except Canada and United States.

States. An important fact we wish to impress on the public is that each and every animal is sold with a guarantee of the exact condition and lived up to in every particular. It is also worthy of note that this Company has grown out of the firm of J. CROUCH & SON, LA FAYETTE STOCK FARM, La Fayette, Indiana, who have been importers and breeders for almost half a century.

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, Vice-President La Fayette Stock Farm London, Ontario The Company is composed of J. Crouch, President; G. R. Crouch, Vice-President and Treasurer; R. G. Ivey, Secretary. Directors: Wm. Bernard and Jas. McCartney.

We can supply for immediate ship-ment Home Grown Alfalfa, Red Clover, Alsike, Timothy, Sweet Clover, Ontario Grown Seed Corn, Marquis and Goose Wheat, Bump-er King and O.A.C. No. 72 Oats, O.A.C. No. 21 Barley, Peas, Buck-wheat, etc. Also Margel, Turnip Seed and all kinds of Garden Seeds in bulk or packets.

#### FEEDS

We handle Linseed Oil Cake Meal, Cotton Seed Meal, Feeding Mo-lasses (in barrels) Gluten Feed, Sugar Beet Meal, Hominy Feed, Dairy and Hog Feeds, Mill Feeds, etc.

We can quote inducing prices on a full line of Poultry Feeds and supplies. Ask for prices.

**CRAMPSEY&KELLEY** DOVERCOURT BOAD, . TORONTO

We pay the freight on all orders of \$25.00 or over east of Manitoba. GOVERNMENT STANDARD

	GOVERNMENT STANDAR	D
	· P	er bu
No.	Red Cloverat	\$32.0
No. 2	Red Cloverat	30.0
No. 1	l Alsikeat	22.0
No. 1	Alsike (Special)at	21.0
No. 2	Timothy, No. 1 for purity at	6.5
No. 3	Timothy at	6.0
No. 1	Alfalfa (Northern Grown).at	17.0

#### 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 a phrase of farm management that does not usually receive the attention itsimportance warrants. In the rush to get the crop into the ground at the proper time and in the best possible 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 consequence, part of the toil-earned revenue of the farm is swallowed up in the purchase of new machinery or in expensive repairs which might have been avoided had proper precaution been taken in time.

Throughout the Experimental Farms system, attention is given, so far as circum-stances permit, to this factor in farm man-agement. All implements are cleaned and placed under cover when not in use, all polished surfaces receiving an appli-cation of an anti-rust preparation.— Axle grease or other lubricant will answer this purpose. As shelter, many types of structure are suitable and an expenditure not exceeding \$400.00 will usually provide a suitable building. Besides it is not always necessary to go to this expense since any weather-proof building already available will answer the purpose

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 cutting parts are sharp. An assortment of bolts, 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 satis-factory service than one that receives erratic attention. To carry out this work systematically a properly fitted work shop is neces-sary. It provides a comfortable place 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, including anvil, forge, work bench, vise, tongs, hammers, hardies, punches, drills, square, chisels, saws, wrenches, etc.— Experimental Farms Note.

# Swat the Scrub Dairy 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 machine :---

### **Economy, Efficiency and Durability**

ts, and so put the

#### and Home

vork you are doave to go through t what you want d they know just e year, and they every branch of

acres of its own, this farm. This lose touch with

Advocate and bor to receive

will give you, months free

and the sum of abel one year

TODD & COOK Seed Merchants Ontario Nursery Stock at Wholesale Prices First class and true to name. Send for Catalogue. No Agents. The Imperial Nurseries **RIDGEVILLE ONTARIO** Registered Seed Barley O.A.C. No. 21, in two-bushel sealed bags, \$1.75 per bus., bags included. Government germination test, 100%. Yield last year, 48 bus. per acre-H. H. HOWELL, R.R. 1, Cainsville, Ontario **Clydesdale Stallion** FOR SALE Cumberland Recruit (imp) [13372] (16540). A grand stock horse with quality, splendid feet and legs. passed inspection in form 1. Priced right for immediate sale. Also a few young Shorthorns, both sexes. GEO. B. ARMSTRONG 1 - TEESWATER, ONT. R.R. No. 1

His Day of Work .- "Tommy Atkins" pleaded exemption from church parade on the ground that he was an agnostic. The sergeant-major assumed an expression of innocent interest.

"Don't you believe in the Ten Com-mandments?" he mildly asked the bold

"Not one, sir," was the reply. "What! Not the rule about keeping the Sabbath?"

'No, sir.

"Ah, well, you're the very man I've been looking for to scrub out the canteen."

It means dollars and cents to you.

For information about the breed, write to

#### **Canadian Ayrshire Breeders'** Association W. F. Stephen, Sec-Treas. HUNTINGDON, QUE.

#### Supply Cans and Pay All Express Charges, within a radius of 100 miles of Kitchener. Send a Statement with every Check. Pay Every Two Weeks. WRITE FOR FULL PARTICULARS ROSEDALE CREAMERY CO. Kitchener Canada

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

# The King of the Road A DOMINION TIRE

**TOBBY TREAD**" is a universal favorite. It is equally popular with owners of limousines and big touring cars and those who drive the less expensive cars.

"NOBBY TREAD" TIRES are practically puncture-proof. But the big nobs do not account for all of this popularity.

It is the marvellous workmanship—the superb materials the creative genius of construction-that make "NOBBY TREADS" almost immune from blow-outs and road-cutting.

When you consider their greater mileage, their wonderful



784

durability and their freedom from ordinary tire troubles, their greater ease and comfort in driv-ing, 'NOBBY TREADS' are the most economical tires you can put on your car.

**DOMINION INNER TUBES** 

for all Dominion Tires

They cost no more than ordinary tubes.

ARE GOOD TIRES

**DOMINION TIRES** 

DOMINION TIRES and ACCESSORIES are distributed through DOMINION RUBBER SYSTEM BRANCHES and sold by the Best Dealers throughout Canada. 156



For 24 years, this reliable preparation has been curing Horses and saving money for Tarmers and Stockmen. 7

## Cairnbrogie Clydesdales STILL TO THE FORE

-

DOMINIO

RUBBER

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

FOUNDED 1866

APRIL 17

Warra Ge

Gau

Has Imit

A Safe, 1 Ourb, 8 Straine Puffs, 4 Bingbo Cures 4 Thrush Bunche

Al a Hu Sprains, B Every bo Warranted per bottle. press, char its use. E testimonia

The Lawre

TOWE

REFLE

Fish Bra

THIS is a for frei deliver; outside worl heavy mat throughout, cordurou

ning in at t front.

NOWER:

FISH BRAN

Tower C Limi

Toronto, Vanco

" Tak

#### The School and the Community.

In seeking a building through which a community organization can function, people are more and more turning there eyes toward the school houses which have for generations been monuments of neglected opportunity.

It is true that many of our schools have not been built with the idea of using them as a meeting place for the citizens of the comminuty. With a little remodelling, however, they should be used to house the community forum, and what better place could be secured in which to work out the ideal of the new democracy. The school is the most democratic of all community organiza-tions. Here meet the children of the tions. Here meet the children of the rich and the poor; side by side in the school sit the children of all ecclesiastical denominations-divided on Sunday it is true, but reunited on Monday-here mingle the children of the farmer and the merchant, the laborer's boy and the doctor's son.

What a levelling institution it is for the youth of the land! Why not utilize it as the democratic meeting place for the citizens generally? We have gone so far 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 they later will vote? It does seem foolish to meet at a common centre to vote on public issues, and at the same time to arrive at conclusions as to how to vote at sectional gatherings or from a prejudiced press

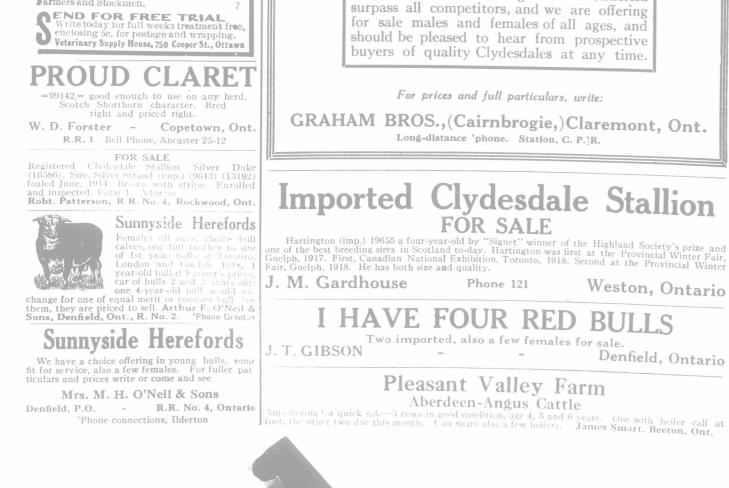
The record of the United States, especially of Wisconsin, may be of particular interest to trustees of Canadian schools. Figures show that for 1915 in that State over 500 schools were used as community centres; 242 had provided seating accommodation for adults, 479 had established community libraries, 204 had a young people's organization; and in 152 places the school principal was secretary of the community club.

Let trustees of schools already built plan to remodel these schools to meet the new demands; let the citizens in communities where new schools are being built have in view the use of the school as a meeting place for adult eiti-zens; especially let all communities who are discussing consolidation, plan to provide a place which shall be a real provide a place which shall be a real community centre. Already this is being done, notably at Foxwarren, Manitoba, where a magnificent building has been erected at a cost of some \$50,000. The community club at this place uses regularly the splendid school auditorium for all public gatherings, while the whole school plant is available for community purposes.

'There once was a tool-house, a great mental tool-house,

Twas shut every night in the year; 'Till we people who gathered around it discovered

That this was a folly too dear. Said they: "If 'tis ours, then we have



delight

Weston, Ontario

Denfield, Ontario

BULLS

the powers To use it whenever we will." So 'twas opened at night and with music And welcome, the whole place we fill. However, before the school can fill its proper place in the life of the community generally, a further step is neces-sary. There must be, it is true, a wider use of the school plant; but with that must come a wider use of the school person. I mean that the school staff must get the community vision and apply themselves more closely to com-munity tasks. Not the advancement of 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 ever to be actualized in the nation as a whole, to be actualized in the nation as a whole, and before it can be fully actualized in the local community, it must be grasped by the teen-age boys and girls in our public schools. Just whether they will grasp that ideal will depend in a great measure on whether our school teachers measure on whether our school teachers are demonstrating it in their teaching

and in their lives. But they must do more than teach the ideal of the new democracy—they must take their place amongst the local leaders who are seeking to actualize the ideal in the community. Teachers must realize that their obligation to the

The strongest off by Victor of Gle for service. Price Peter A. Tho Goodison S Herefor We have 3-year-o any herd, also Ge both perfectly ma and register furni

W. T. GOODISC

Choice heifers h Indiana S Wes

Alloway

Angus-

Robt. McEw

Springfi I have six bulls Middlebrook Pr cairns. Four of other calves you safely bred to sa

safely bred to sa KEN Bellwood R.R. No. 5, B

SU **ABER** 

The present strir some classy herd selves and sired G. C. CHANNO

Railway connection

Kennelwor

#### APRIL 17, 1919

Warranted to Give Satisfaction.

#### School and the mmunity. a building through which a

organization can function, ore and more turning their the school houses which erations been monuments pportunity.

that many of our schools n built with the idea of s a meeting place for the he comminuty. With a ing, however, they should use the community forum, ter place could be secured ork out the ideal of the new he school is the most all community organiza. meet the children of the poor; side by side in the children of all ecclesiastical -divided on Sunday it is inited on Monday—here ildren of the farmer and the laborer's boy and the

elling institution it is for he land! Why not utilize ocratic meeting place for nerally? We have gone so the school house as the on election day, why not lace where citizens gather issues upon which they e? It does seem foolish ommon centre to vote on and at the same time to usions as to how to vote therings or from a pre-

of the United States. sconsin, may be of particuo trustees of **Canadian** es show that for 1915 over 500 schools were unity centres; 242 had ng accommodation for d established community la young people's organi-152 places the school cretary of the community

of schools already built el these schools to meet nds; let the citizens in where new schools are e in view the use of the ting place for adult eitilet all communities who consolidation, plan to which shall be a real re. Already this is being t Foxwarren, Manitoba, icent building has been st of some \$50,000. The b at this place uses lendid school auditorium therings, while the whole available for community

as a tool-house, a great ol-house, y night in the year; who gathered around it

folly too dear.

## **Gombault's Caustic Balsam** Has Imitators But No Competitors: A Safe, Speedy and Positive Cure for Sare, Speedy and Fostave Cure I Ourb, Splint. Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Oures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle. As a Human Remedy for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Caustic Balsam sold is Warranted to give satisfaction. Price \$1,75 per bottle. Sold by druggists, or sent by ex-press, charges paid, with full directions for its use. Is Send for descriptive circulars, testimonials, etc. Address The Lawrence-Williams Co., Toronto, Ont. TOWERS FISH BRAND REFLEX LONG COATS " Takes the Wet Out of Rain." Fish Brand Reflex Long Coats THIS is a coat suitable for freight handlers, delivery men and all outside workers. Made of heavy material—double throughout, finished with corduroy lined collar— has inner cuffs in sleeves OWER'S MSH BRAND Coast Coast Tower Canadian Service Limited Toronto, Halifax, Vancouver Alloway Lodge Stock Farm

Angus-Southdowns-Collies Choice heifers bred to Queen's Edward, 1st Indiana State Fair. Bulls winners at Western Fair and Guelph. 1st prim Robt. McEwen, R. R. 4, London, Ont.

Springfield Farm Angus

I have six bulls from 8 to 15 months. All sired by Middlebrook Prince 5th, a son of Jock of Glen-cairns. Four of these are show calves. Also have other calves younger, and could spare a few heifers safely bred to same sire.

R.R. No. 5, Bellwood, C.P.R., Fergus, G.T.R. Bell 'Phone Fergus

SUNNY ACRES

**ABERDEEN-ANGUS** 

The present string of young bulls for sale includes some classy herd bull prospects, winners them-selves and sired by champions. If interested in Angus, write your wants. Visitors welcome. G. C. CHANNON - OAKWOOD, ONT. P. O. and 'Phone Railway connections, Lindsay, C.P.R. and G.T.R.

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.

Peter A. Thompson, Hillsburg, Ont.

Goodison Stock Farms Registered

Hereford Bulls for Sale

We have 3-year-old Rex Ingleside Bnll fit to head any herd, also George Ingleside one-year-old bull, both perfectly marked and in condition. Pedigree and register furnished. Write at once.

W. T. GOODISON - Sarnia, Ontario

KENNETH C. QUARRIE

#### THE FARMER'S ADVOCATE.

community does not cease with the work done during school hours; they are citizens of the community and owe a debt of service to the community which cannot altogether be discharged between the hours of 9 a. m. and 4 p.m., five days a week. The community movement is looking to the school teachers for part of the trained leader-ship that it needs.

So far I have mentioned two factors in school circles-the plant and the teacher. A third factor is the school trustee; for without his co-operation little will be done through the plant or the teacher. Many a school build-ing has been inadequately planned; many a school teacher's enthusiasm has been nipped in the bud by the nearsighted, over-cautious trustee. Yes, trustees must get the vision too. They should for instance provide the best accommodation possible in buildings, equipment and teaching staff. This would include, in addition to the regular equipment, provision for teaching domes culture. There is no reason why these subjects should not be taught in all the larger schools; and a resident teacher in agriculture should be secured.

The trustees could also help the recreational life of the community by providing first of all suitable playground equipment for the children. It is surprising to find how many country schools, even in the larger centres have little or no provision made for meeting the children's need at play-time. Swings, slides, a merry-go-round, tennis courts, baseball and basketball grounds— all of these could be provided for at very little cost. Then with a playground thus equipped, the school could become the recreational centre for the adult section of the community as well as the playground for the children.

Some school boards in Wisconsin are going a step further and are combining the position of school principal with that of community secretary, offering one-third increase in salary for the extra work entailed. Were this lead followed in Canada more of our enterprising young men would make the teaching profession their life work.

Given school trustees with a community vision, the school teachers will be avail able as community leaders, and the school plant, grounds and equipment will become a centre through which the whole community can learn to "think together, work together, and play to-gether. F. C. MIDDLETON.

#### Varieties of Grain.

At the experimental farm a good deal of work has been done in the testing out of different varieties of farm crops. The results of variety tests are given in Circular No. 16. The names of the varieties of cereals are tabulated in the order of merit for the different parts of the Canada. For instance, some of the leading varieties in the different clases as circular might be g in the Fall wheat, Dawson's Golden Chaff;

# Cultivate triple acreage with Planet Jr. tools

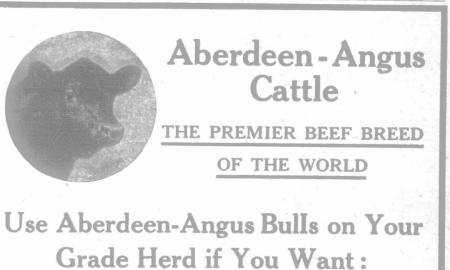
Your country needs all the food you can raise. Increase your production. Raise more than ever, by using Planet Jr. They enable you to cultivate three times the acreage tools. possible with ordinary tools, because you can do the work so easily, quickly and thoroughly. Planet Jrs. are fully guaranteed and will last a life-time.

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and Plow is a special favorite. Opens the furrow, sows all garden seeds (in hills or drills), covers, rolls down and marks the next row all at one operation. Hoes, plows and cultivates all through the season. A hand machine that will pay for itself in time, labor and seed saved in a single season.

No. 12 Planet Jr. Double and Single Wheel-Hoe has hoes that are wonderful weed killers. The Plows open furrows, cove them and hill growing crops. The Cultivator Teeth work deep or shallow. The Leaf Lifters save much time in late work when plants are large or leaves too low for ordinary work. Crops are straddled till 20 inches high, then the tool works be-tween rows with one or two wheels.

S. L. ALLEN & CO. Inc. Box 1108F Philadelphia

72-page Catalog, free! Illustrates Planet Jrs. doing actual arm and garden work, and describes over 55 different tools, including orders, Wheel-Hoes, Horse-Hees, Harrows, Orchard-, Beet- and Pivotor it today; also name of nea



- 1.—Market-topping Steers. 6.—Hornless Calves.
- and Heavy Weighers.
- Cattle that rustle in the cold.
- 4.—Early Development.
- 5.—Easy and quick feeders.

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.

2.—Hardy, Robust Cattle, 7.—Calves uniform in type

- and color. 3.—Heavy, Winter - haired 8.—Transform your mixed herd of all sorts into one
  - uniform, black, highclassed lot that will all look like pure-breds.

No. 4

785

'tis ours, then we have ٢S ever we will.'' at night and with music

e whole place we fill.

ore the school can fill in the life of the com-, a further step is necesst be, it is true, a wider ol plant; but with that ider use of the school n that the school staff ommunity vision and s more closely to com-Not the advancement 1 but the betterment of al of the new democracy. be actualized in the life munity first, if it is ever in the nation as a whole, n be fully actualized in nity, it must be grasped boys and girls in our Just whether they will will depend in a great ther our school teachers ng it in their teaching

st do more than teach new democracy-they place amongst the local e seeking to actualize community. Teachers t their obligation to the

spring wheat, (late ripening) Red Fife (early ripening) Marquis; (very early) Ruby; oats, Banner; Six-rowed barley Manchurian. The Arthur is placed at the head of the varieties of peas and Novelty is the name of the best flax for seed purposes. While these varieties have led at the various experimental farms, throughout many parts of Ontario the O. A. C. No. 72 oat and the O. A. C. No. 21 barley have been very popular. They are both exceptionally good varieties.

Occasionally there are times when a lie is the truth, The following story in the Methodist Centenary Bulletin illustrates that paradox: In Oregon there are many sloughs of mud or quicksand which are difficult and dangerous to cross. A certain Methodist missionary in that state, in the course of his travels, came to a slough which looked so for-midable that he called a boy, who was chopping wood on the other side, and said: "Boy, is that a safe slough to cross?" "Oh, yes." "Has it a good hard bottom?" "Oh yes," said the boy. The man started to cross; his horse mired, and he had to dismount and wade out. Naturally he was angry. "Why did you lie to me?" he demanded. "Didn't you say the slough had a good hard are many sloughs of mud or quicksand you he to mer he demanded. Didn't you say the slough had a good hard bottom?" "Oh, yes," said the boy, "the bottom is good and hard, but you didn't get down to it!"

#### Aberdeen - Angus Canadian Association Brandon, Manitoba

#### 36 Points for Aberdeen-Angus Sweepstakes

With the award of the grand championship for single steer to an Aberdeen-Angus at the Wichita show recently, the War Record of the "Doddies" went up to 36 points on the North American continent. From Edmonton, Alberta to Jackson-ville, Florida; from Honolulu, Hawaii, to Syracuse, New York, beef making 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 817 F.A. EXCHANGE AVE., CHICAGO

If you want a good breeding and show bull for the three-year-old class. I am offering the sire of the majority of our seven calves which we exhibited at 1918 shows. Or if you want one for the two-year old class, can sell the junior champion at Toronto also 1st prize at Winter Fair, 1917. We also have useful bulls and females in good breeding condition for sale.

Jas. Bowman

Elm Park, Guelph, Ontario

#### LARKIN FARMS Queenston, Ontario ABERDEEN ANGUS and JERSEY CATTLE SHROPSHIRE and SOUTHDOWN SHEEP Correspondence and Inspection Invited (Please mention "Farmer's Advocate")

#### **KNIGHTON LODGE STOCK FARM**

Offers for sale two pure-bred Aberdeen-Angus cows, with calves at side, Middlebrook Beauty and Victoria of Larkin 2nd. L. E. & N. cars stop within a few minutes' walk of farm. C. C. KETTLE, Prop., Wilsonville, Ont., R.R. No. 1. 'Phone 2930, Waterford. W. A. Woolley, Manage



# **Strength** Where Strength is needed

Every farmer knows that a gate is no stronger than its weakest part-and that the weakest part is usually the hinge. When this becomes twisted, the gate sags, and its usefulness is gone.

786

We have succeeded in designing a gate that is strong throughout, but especially strong as to its hinges-so strong that it is impossible to twist its hinges out of shape, even a fraction of an inch. In the

#### Invincib Gates

the unique feature is the setting of the steel hinge plugs in the extreme corners -we weld them there by electricity. Also, we weld the pipe stays to the onepiece frame; with the result that we have a gate as substantial as if it were one iece of steel.

With hinges set wide apart, the gate swings easily on its posts; and there is no indirect or bending strain on the frame-the strain on this "Square cornered" gate comes right in line with the upper and lower hinges-where we have provided the necessary strength to withstand it.

You would expect such a gate to cost more than a ordinary one-but this gate costs you no more than the round-cornered style, in spite of its special features of design and special strength of construction Invincible Fencing and Gates are sold and recommended by the better class of dealers throughout Canada; and the Farmers who have first-hand knowledge of their quality through years of use are telling their neighbors that there is true economy and very real satisfaction in buying these strictly high-grade "Made in Canada" Products.

Illustrated Catologue showing the various styles of Gate we make, will be sent on request. THE STEEL COMPANY OF CANADA, LIMITED :: MONTREAL



#### FOUNDED 1866

#### 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 first few paragraphs of this article, in respect to time, will of necessity be vague. In the main the approximate dates of the various stages of evolution in the horse are given.

From fossil remains the fact is fairly well established that the early man hunted and captured the horse for food, and that there were two varieties-one as large as the middle-sized horse of to-day, the other about the size of a large donkey. The largest specimens were not over 14 hands, and the average height was 13 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 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 was of abnormal size

Late in the Bronze Age, or in the Early Iron Age, the horse was domesticated. 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 early horses were captured by the lasso and belaboured with sticks and cudgels, probably later whips, to cow and subdue

Soon after being domesticated bridles 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 in the early days among the Libyans of Northern Africa. They rarely if ever used bits. The Europeans did use bits, the first being made of horn and bone, later of copper, bronze and iron.

From now on each paragraph will be preceded by the date of the occurrences

1800 B.C.—The country bordering the Black and Caspian seas were abundantly supplied with horses, but there were none

1712 B. C.-Joseph exchanged corn for horses during the famine in Egypt. That Mosis I, is said to have captured horses on his expedition into the country beyond the Euphrates.

1700 B. C.-Libyan women rode horses astride, sitting on horse cloths. Pairs were driven and four-horse chariots sometimes seen. The Libyan horse was evidently higher in stature than other horses because other people found their horses too small to ride, and drove them until a good many centuries later. About this time, Aram, the Armenian King, had a war with the Medes and padocians. All the combatants had large 1550 в. с.-In the reign of Ahhmes I. chariots were used in Egypt, but do not appear to have been used before that time, although it is difficult to conceive that the Egyptians had kept horses for 150 years without putting them to some use. For a long period the chariots were used only for display and in time of war. 1500 B. C .- Horses were employed in the great city of Babylonia.

#### APRIL 17

were riding them bare Assyrians pads. 648 в. С instituted races had | 600 в. С were comm former us Southern inhabitant 520 в. с. a system o

480 B. C famous bre 437 в. с. showing sev 425 в. chariots in

401 в. С Phœnicians attached to spurs came 400 в. the Veneti of horses,

their speed 300 в. с organized 170 в. с. Gaul.

150 в. commencin Gauls had 50 в. с horseback.

1 A. D. discard the people to c come into c The four b Venice, we time, and titude. 225 А Severus Al England. 356 A. D into Arabi Cappadocia 380 A. D. to-day, had Romans. 500 A. D

had come ir 600 A. D into use. 1066 imported S 1190 A. D

pacers as sa 1200 A. D This was th and heavy lighter bree running ra just outside

Spanish hor 1493 A. D

1500 A.

travelling,

that time I

Domingo

making th

and Mexico

1519 A. I

horses and

brought in

eighty. 1525 д. р

with horses.

with horses,1

the Mississ

After his de leaving four

may have 1 feral horses of

Indies and S

expresses si

pacers amon

into Canada

1609.—Im

1604. -- Im

1590 A. D

1528 A. D.

1539 A. D.

Cortez.

efforts

1511 A.

1450 B.C.—The Phœnicians had chariots when subdued by Joshua.

1400 B. C.—The Hittites had horses in Northern Palestine, and the Greeks were using them in chariots.

13 B. C.-King Erichthonious became the richest man on earth and owned 3,000 mares. He was, according to Virgil, the first to drive a four-horse team, but Virgil probably knew nothing of the evidences that the Libyans had done this

1285 B. C.-Sisera used chariots when

1000 B. C .- The Trojans had white horses, which color was unknown to the Greeks and Asiatics, where yellow-dun seems to have been the prevailing color, with an occasional mention of dapled dun. At this same period the Libyans had dark bay horses with a white star in forchard

975 B. C .- King Mu of China travelled in a chariot drawn by eight horses. 800 B. C.- All this time very few people

Winter on Canada a of their borse 1629 - Im

into Virgini.

#### of the Horse in Lines.

nces of the horse are found period long before the dawn d beyond the reach of the n of chronology, hence the graphs of this article, in , will of necessity be vague. the approximate dates stages of evolution in the

emains the fact is fairly well t the early man hunted and orse for food, and that there eties—one as large as the orse of to-day, the other of a large donkey. The ens were not over 14 hands. ge height was 13 h. 2½ in. lig deeply into the earlier two million years previous, e toes, and was about the ut will start with the horse ne first men, at which time ps, the chief item of their se days the horse's head

Bronze Age, or in the Early horse was domesticated. by the Swiss Lake er the Turko-Tartaric tribes the horse for its milk, not nd goats, like other early

bundant proof that the ere captured by the lasso d with sticks and cudgels, whips, to cow and subdue

eing domesticated bridles The first bridles were of e practically the same as o-day, with reins attached. ned its greatest domesticity days among the Libyans frica. They rarely if ever e Europeans did use bits, made of horn and bone,

bronze and iron. n each paragraph will be e date of the occurrences

he country bordering the pian seas were abundantly norses, but there were none

Joseph exchanged corn for the famine in Egypt. is said to have captured cpedition into the country

libyan women rode horses on horse cloths. Pairs and four-horse chariots 1. The Libyan horse was er in stature than other other people found their ll to ride, and drove them any centuries later. About im, the Armenian King, th the Medes and Cap

#### April 17, 1919

were riding horses and such as did, rode them bareback, but about this time the Assyrians commenced to use cloths and pads.

648 B. C.-A race for riding horses was instituted in the 33rd Olympiad. Chariot races had been in vogue before that.

600 B. C.-The Greeks and Scythians were commencing to ride horseback, the former using cloths. The Sybaris of Southern Italy were using cavalry, the inhabitants of Northern Italy were riding. 520 B. C.—Darias the Mede established a system of equine couriers.

480 B. C.-The Nisseans were raising a famous breed of white horses in Asia.

437 в. с.—The Parthenon friezes made, showing several horses in pacing attitudes.

425 B. C.—Alcibiades entered seven chariots in one race. 401 в. с.—In the battle of Cunava,the

Phœnicians used chariots with scythes attached to the wheels. Common prickspurs came into use about this time.

400 B. C.-For a considerable period the Venetians had been raising a breed of horses, many of them white, noted for their speed. The breed finally died out. 300 B. C.-The Celts of Noricum had organized cavalry.

170 B. C.—Roman horses exported into Gaul.

150 B. C.—Popularity of the chariot commencing to wane. The Transalpine Gauls had taken to horseback.

50 B. C.-The Belgic tribes take to. horseback.

1 A. D.—The British commence to discard the chariots, one of the last people to do so. Horse-shoes may have come into occasional use about this time. The four bronze horses on St. Marks, in Venice, were doubtless cast about this time, and show horses in a pacing attitude.

225 A. D.—The Roman Emperor Severus Alexander organized racing in England.

356 A. D.-Emperor Constantinus sent into Arabia two hundred "well-bred Cappadocian horses," which was the introduction of horses into that country. 380 A. D.-Saddles, similar to ours of to-day, had come into wide use by the

500 A. D.-Regular shoeing of horses had come into vogue.

600 A. D.-Stirrups were just coming into use

1066 A. D.-William the Conqueror imported Spanish horses into England. 1190 A. D.-FitzStephen writes about pacers as saddle horses in England.

1200 A. D.-King John imported heavy stallions from Flanders into England. This was the time of the "great horse" and heavy armour. There was also a lighter breed of horses in England, and running races were held about this time just outside of London.

1325 A. D.-Edward II. imported Spanish horses into England.

1493 A. D.—First importation of horses nto America by Columbus. All perished.

#### THE FARMER'S ADVOCATE.



the combatants had large

In the reign of Ahhmes I. used in Egypt, but do not been used before that time, difficult to conceive that had kept horses for 150 outting them to some use. od the chariots were used and in time of war.

Horses were employed in f Babylonia.

e Phœnicians had chariots he Hittites had horses in

stine, and the Greeks in chariots.

ng Erichthonious became on earth and owned 3,000 is, according to Virgil, e a four-horse team, but knew nothing of the the Libyans had done this

bisera used chariots when

he Trojans had white olor was unknown to the iatics, where yellow-dun been the prevailing color, oral mention of dappled same period the Libyans horses with a white star

ng Mu of China travelled wn by eight horses. I this time very few people

1500 A. D.-An Italian ecclesiastic,

travelling, expresses surprise on seeing pacers in England, a gait that had by that time become extinct in Italy.

1511 A. D.-Spaniards settled in San Domingo and began to raise horses, making that a centre for colonization efforts in North and South America and Mexico.

1519 A. D.-First importation of eleven horses and five mares into Mexico by Cortez. Shortly afterwards Alvardo brought in twenty horses and Naevaez eighty.

1525 A. D.—Allyon landed in Florida with horses, but was forced to turn back.

1528 A. D.-Narvaez landed in Florida with horses, but had to kill them for food.

1539 A. D.—Importation of horses into the Mississippi Valley by De Soto. After his death the expedition returned leaving four or five horses behind, which may have been the progenitors of the feral horses of our Western States.

1590 A. D.- A traveller in the West Indies and South America from England expresses surprise in not finding any pacers among the horses.

1604. -Importation of French horses into Canada.

1609.-Importation of English horses into Virginia, but these were devoured during the famine of the following Winter

1613-11 - Virginians made two raids on Canada and captured most, if not all,

1629 Importation of Dutch horses

Herd headed by Gainford Supreme, one of the best sons of the Great Gainford Marquis.

#### FOR SALE

Some choice young cows with calf at foot, also some open heifers and heifers in calf to Gainford Supreme.

We have also for sale some choice young bulls.

Farm one mile from Islington Station.

Samuel Truesdale, Manager, Islington, Ont. Harry McGee, Proprietor, 61 Forest Hill Rd., Toronto, Ont.

## **Imported Shorthorns**

SIRES IN SERVICE; Imp. Collynie Ringleader (Bred by Wm. Duthie)

Imp. Clipper Prince (Bred by Geo. Campbell) (Berd by Geo. Anderson) Imp. Orange Lord

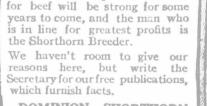
We are offering a large selection in imported females with calves at foot or in calf. A few home-bred females, 19 imported bulls and 8 home-bred bulls, all of serviceable age. If interested, write us, or come and see the herd.

J. A. & H. M. PETTIT - Freeman, Ontario

Burlington Jct., G.T.R., half mile from farm. 'Phone Burlington.

-Herd headed by Sea Gem Pride =96365 =. Pride and from a show cow. A number of other good bulls and a few females. Write for particulars. Telephone and telegraph by Ayr. KYLE BROS., R. 1, Drumbo, Ont.

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



It looks as though the demand

787

DOMINION SHORTHORN BREEDERS' ASSOCIATION W. A. DRYDEN, President Brooklin, Ont. C. E. DAY, Secretary Box 285, Guelph Ont. 21

FOR SALE

Two Scotch Shorthorn bulls both low down and thick. One is 18 months Kilblean beauty, from the Marr bred cow Scotch Thistle (imp.), and a seven months English Lady a show proposition. Both are sired by one of the best breeding son's of

Arch. McKinnon, R.R. No. 1, Erin, Ontario L. D. Phone

Wet Horses

Vour work horse gets overheated in the spring. His long, wet coat takes hours to dry. Mean-while, his open pores absorb the filth that has lodged in his hair all winter, and he catches cold and gets sick. Prevent this by spring clip-ping. Use a Stewart Machine. If dealer can't supply you send us his name. Write for catalogue. CHICAGO FLEXIBLE SHAFT COMPANY Dept. B 161, 12th St. and Central Ave., Chicago, IN



BRANDRAM'S Genuine B. B. White Lead is free from gritty particles—it falls from the stirring paddle in a stream of velvety smoothness. It breaks up so easily and mixes so readily with linseed oil that the labor preliminary to a painting job is greatly reduced when this splendid white lead is used.

## **Brandram's Genuine B.B. White Lead**

If your dealer doesn't handle Brandram's Genuine B.B. White Lead, write us for the name of our nearest agent.

788

There is a right way and a wrong way of painting. Before you paint anything be sure you are using the right kind of paint and giving your surface the correct preparation.

> All the little details of painting and varnishing are discussed in our de luxe booklet, "Possibilities in Paint," now on the press. It will be ready for mailing shortly and will be sent on receipt of 10c. in stamps to cover the cost of mailing if you write the Advertising Department, 2970 St. Urbain St., Montreal.

#### BRANDRAM HENDERSON

#### B-H Products for other Purposes

For Interior Finishing "China Lac" the perfect varnish stain.

Staining the Roof **B-H Shingle Stain in 19** different colors.

**B**-H Porch Floor Paint For porch floors, ceilings and parts exposed to the weather Plaster Cellings and Walls B-H "Fresconette"--flat tone

oil paint. Finishing a Floor B-H "Floorlustre"--excellent

#### FOUNDED 1866

into New York and English horses into Salem and Boston (these were from Leicestershire). From the English horses may have descended the Narragansett pacer.

1635 .- Importation of three stallions and twenty-seven mares from Holland into Salem, Mass.

1638-Swedish settlers on the Delaware River bring some of their native horses, probably pacers. The Swedish pacer is thought by some to have been the progenitors of the early pacers of England.

1640.—New England begins exporting horses to the Barbadoes. 1643.—A cargo or two of Dutch imported into New York from the Dutch West Indies.

1647.—Dutch horses from New York exported into Virginia. 1649.—There were 200 horses in Virginia.

at this time.

1649-1660—Importation into England of Place's White Turk, Morocco Barb and Hemsley Turk. 1657.—Siege of Azof, when horses were liberated which are supposed to be

the progenitors of the native horses of 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 mares. 1665.—Importation into Canada of horses from Picardy, France. 1668.—Virginia began to export horses.

Many of their horses ran wild.

Many of their norses ran wild. 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 coaches commenced to to come in use in England. Four-wheeled carriages had been used before. 1700.—The pacer had practically dis-

appeared in England.

1702-14.—Importation into England of the Darley Arabian (1711), Curwen's Barb and Carlisle Barb.

1708.-There were 2,363 horses in the Virginia light horse artillery. Earliest records of English racing began about this period.

1727-53.—Importation into England of the Godolphin Arabian (died 1753). 1730.—First English running horse

imported into Virginia. 1750.-The average size of the native stock of Virginia, was then 13 h. 2 in. Racing in New Jersey was becoming a

nuisance. 1768.—The average height of the Narragansett and Massachusetts horse was 14 h. 1 in. in Virginia and South Carolina 13 h. 2 in., in Connecticut, 13 h. 3 in., in Pennsylvania 13 h. 11/4 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 breeding

trotters in Russia. 1778.—The horses of New York aver-age 14 h. 1 in. About one-half were double criteria APRIL 17

#### Making

Concrete concrete pro made on the spare time d be put to g There is no from the ap poor fence, adds more and life of posts.

To make winter mont to see that before settin where there be found on

There are obtain good posts that e have well in

> Use new ce Use clean,

Use gravel graded; free clay, organic

Use enoug of 1 part cer broken stone best for post

Mix ceme while dry. Add brok

continue mi a period of than when m

> Proper am reinforcing i iron rods are

each corner o Have wellmany good pa but home-ma

good satisfac Clean and before pourin

Leave posts four hours. period is nec

Keep posts curing. Allow before using. Handle con cannot be tl wooden wooden po Missouri Co

#### **One Barl** -Dor

When you shovel, and axe, and thro and started m those barberri where,-you'r but go slowl on harmless vengeance fal berry that ne Japanese var pests to white quite conclus small and sp and free from leaf edges of dines. Barb bushes, but t every spine th one has three season, be it triple spines one and all Nature dons and flowers si growing thing flowers on th you'll find the bush with trip! barberry for concerned as it the bush that its flowers, li and alone. La the flowers t beautiful red ! women tell of and of using t ment of the b which they gre distinguishing looked them the pest, pick and don't stop sent the last be "West".—E. I College.



and English horses into oston (these were from From the English horses cended the Narragansett

tation of three stallions en mares from Holland ass

h settlers on the Delang some of their native pacers. The Swedish t by some to have been of the early pacers of

England begins exporting rbadoes. go or two of Dutch ew York from the Dutch

horses from New York irginia vere 200 horses in Virginia

nportation into England

Turk, Morocco Barb and

of Azof, when horses hich are supposed to be of the native horses of nd Northern China. e height of the native hands

nportation into England abia, three Turks from e Royal Barb or Turkish

ation into Canada of rdy, France. began to export horses.

rses ran wild. ortation into England rk and Stradding Turk.

were the leading item de Island. coaches commenced to

England. Four-wheeled n used before. cer had practically dis-

land. ortation into England abian (1711), Curwen's

e Barb vere 2,363 horses in the orse artillery. Earliest

sh racing began about rtation into England of

abian (died 1753). English running horse ginia.

rage size of the native was then 13 h. 2 in. ersev was becoming a

erage height of the Massachusetts horse in Virginia and South in., in Connecticut, nsylvania 13 h. 11/4 in. were twice as many In the other colonies nost all pacers. Orloff began breeding

es of New York aver-About one-half were -quarter trotters, one

#### 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 adds more to the appearance, efficiency 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 for this work where there is no danger of freezing can be found on every farm.

There are certain requirements to obtain good results in making concrete 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 well graded; free from soft material such as clay, organic matter, etc.

Use enough cement. A rich mixture of 1 part cement, 11/2 of sand, and 3 of broken stone not larger than 3/4 inch, is best for posts.

Mix cement and sand thoroughly while dry.

Add broken stone and water and continue mixing. Concrete mixed for a period of five minutes is much better than when mixed for one minute only.

Proper amount and proper placing of reinforcing is essential. Four 1/4-inch 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 good satisfaction

Clean and oil form with a heavy oil before pouring concrete.

Leave posts in mold for at least twentyfour hours. In damp weather a longer period is necessary.

Keep posts moist the first week while Allow them to season one month curing. before using.

Handle concrete posts with care. They cannot be thrown from a wagon like wooden posts.— E. W. LEHMANN, MISSOURI COLLEGE OF AGRICULTURE.

#### **One Barberry is Harmless —Don't Destroy It.**

When you've sharpened up your shovel, and you've ground your rusty axe, and thrown aside your coat and hat and started making tracks to reckon with those barberries which spread rust everywhere,-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 berry that never rusts at all. It's the 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 leaf 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 other 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 Mother Nature dons her robe of verdure green, and flowers start to blooming on every growing thing,—if you scan the yellow flowers on the bushes in your yards, you'll find they grow in clusters on the bush with triple barbs; while the Japanese barberry for whose safety we're concerned as if trying to be different from the bush that should be burned—bears its flowers, like its principles, solitary and alone. Later on to fill the places of 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 jell. The arrange-ment of the berries like the flowers from which the service of the service o which they grew affords an easy method of distinguishing the two. If by now, you've looked them over and decided they're the pest, pick up your axe and shovel and don't stop for any rest, till you've "West".--E. L. SARGENT, Colorado Agr. College.

# THE FARMER'S ADVOCATE.

# White Tractors and Threshers "THE FIRST QUALITY LINE"



The season is short. The equipment represents a big investment: The labor cost is high. If 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.

Above every other consider-

ation in choosing threshing ma-

chinery comes RELIABILITY.

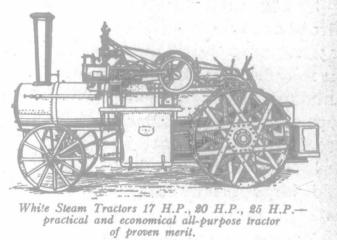
White—Allwork Tractor—14-28 H.P.—the largest engine on any 3-plow tractor—weighs only 4,800 lbs.

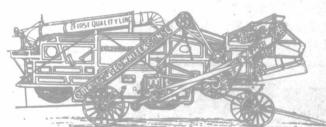
For that very reason White Tractors and Threshers have always been built with great overstrength in every vital part. The unusual strain is provided for. Parts that receive the most wear are made extra durable and strong. The whole effort of

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,





e father of the Orloff er imported to America

ne age of eight. o foaled; Yankee trot-

Horse trotted mile in Live Stock Journal,

ssip.

Lowell, Mass., have ne folder giving the ription of some of the reeding herd. Among v's Double, a strong. ck-bodied pig which his feet and weighed year old. This sire in winning championfairs across the line. sired by Lord Premanother of the good lood Farm. Not only but his progeny have e keenest competition. ny sold at the Interan average of \$380. Longfellow's Double d and eighteen prizes ws in 1917-18. The s Farm gives illustrastock in the breeding males are for sale.

give it freely.

The Geo. White and Sons Co., Limited,

Moose Jaw, Sask.

nea joi gas tractors. 24-inch cylinder, 40-inch body.

#### London, Ontario

Brandon, Man.

#### **English Dual-Purpose** Robert Miller, Stouffville, Ontario Has EIGHT of the best young bulls that he had owned at one time, good ages and beautifully baed Also several cows and heifers, some of them with calves at foot, others in calf to Rosemary Sultan the Grand Champion bull at head of the herd. Everything of Scotch breeding. The prices are very reasonable, and though the freight is high, it will be paid. Shorthorns Pure Scotch and Scotch-Topped Shorthorns We have several choice young bulls of the best of breeding and ready for service. Two are by Raphea's (imp.), one by Right Sort (imp.), one by Sittyton Selection, and several by our present herd size. Newton Cedric (imp.). Prices right. R. M. MITCHELL R. R. No. FREEMAN. ONTABLE For sale: Bull calves and young bulls. English bred for milk and beef. The right kind to head Canadian herds to increase FREEMAN, ONTARIO Shorthorn Bulls and Females—Herd headed by Ruby Marquis, a son of calves now coming are all by this sire. prices before buying elsewhere. profits. From very moderate prices and up. English Large, Black Pigs. A great bacon type, long and deep, thrifty. Come or write. PRITCHARD BROS., R.R. No. 1, Elora,Ont. LYNNORE STOCK FARM **Choice Shorthorn Females** F. Wallace Cockshutt Brantferd - Ontarie Mysies, Rosemarys, Clementinas, Missie, Miss Ramsdens, Cruickshank, Fragrance, etc., all good pedigrees and all good breeding cattle in calf to good bulls. Prices right. Also a few bull calves Correspondence solicited. JAS. K. CAMPBELL & SONS, PALMERSTON, ONT. Mardella Shorthorns **Highland Lake Farms** Herd headed by The Duke, the great, massive 4-year-old aire, whose dam has 18,609 lbs. of milk and 474 lbs. of butter-fat in the R. O. P. test. I have at present two exceptionally sood, young buils ready for service, and others younger, as well as females all ages. Some are full of Scotch breed-ing, and all are priced to sell. Write or call. For Sale: Two extra good (30-lb.) thirty-pound bulls ready for heavy service. Priced to sell. Also younger ones by a son of May Echo Sylvia. JEFFERSON, ONT. Ing, and all are priced to sea. Write of Can. THOS. GRAHAM - PORT PERRY, ONT. R. R. No. 5 R. W. E. BURNABY ..... Farm at Stop 55, Yonge St. Radial

#### Feeding and Caring for a Flock of Pure-bred Sheep.

If the greatest profit is to be realized from a flock of pure-bred sheep they must receive the very best feed and care the shepherd can give them. Not that they of necessity require greater care 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 Farm, Nappan, this has been well brought out in the feeding and caring of the pure-bred flock. It was found that even during the summer season the pure-bred flock could not be neglected, otherwise the results would be found to show in the following seasons increase and development of the young.

The flock must have a good pasture with not too rank a growth; preferably a short, thick bottom growth with an abundance of clover and plenty of good running water to which the sheep can easily get. Sheep take much more water than the average farmer would think. This holds true especially in winter.

This holds true especially in winter. Just before the breeding season the ewes should be culled; all undesirables taken out; and a certain period given between weaning and breeding time for the ewes to get into condition again. Best results are obtained where the ewes are turned in a nice clover field and flushed ust before mating season. It is found that where ewes and rams are in the best of health and condition a greater percent age of twins and triplets is dropped. All ewes should be tagged before the mating season. The best time to breed is in the fall. If you have warm quarters for the ewes and lambs it will pay to have the lambs dropped early; otherwise it is not advisable to do so. It is also found that a small flock of twenty to twenty-five per pen is better than a large one. When ewes go into winter quarters they should be supplied with good, well-cured clover hay. The next best is mixture of clover and timothy Pulped turnips at the rate of from  $2\frac{1}{2}$ to 3 pounds per head per day should be given up to within a month of lambing, with the addition of  $\frac{1}{2}$  to 1 pound of a meal mixture (100 oats, 100 bran and 50 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 had our heaviest losses from over-fat ewes. Just previous to lambing (say about a month) the turnips are gradually cut down to nothing. The percentage of bran, if it is good, is increased slightly until after the lambs are dropped. Then the oats are increased, as there is nothing like good oats to stimulate the milk flow. Salt should be supplied at all seasons of the year. A careful watch over the flock at lambing time will often save the lives of many lambs that will, at the end of civ or cauca months ho

# 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.

# CALDWELL'S 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 Present herd sire is one of the best sons of King Segis Alcartra Spofford. We have three of his sons born during May and June last, and also a grandson of Lakeview Lestrange. Apply to Superintendent. Premier Fcho Sylvia DaKal Na 38053

APRIL 17

FOUNDED 1866

Quest

Will it hu summer? salable? Ans.—Mo experienced the warm sell them w taken care become unso

Can the be improve

Ans.—It is stockmen the depends law of the anime lactation. I of milk but quality of the to the rule, I able to ince of certaine Excitement in the test. the lactation than at the Victory Bon

1. If a vested in V a will can o 2. A buy guaranteeing the cow cal A claim da What action Ontario Ans.—1. 2. A has

for breach in the Div would be wh sider reason Before res make an ear settlement. Hy

I have tw my front ya some brancl electric wire: as large and when it was 1. Can tl trees down i 2. If not, overhanging not touch th 3. Does to ployee to be amount of cu Ontario, Ans.--1, 2. Yes.





790

So convenient and simple in construction, a large roomy tub without any obstruction inside the tub. The rub-board is hinged to the slusher and when open the water and suds drain back again into the tub. No more sloppy kitchens, when you use a

CONNOR WASHING MACHINE 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. ONTARIO

#### TOP 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



Cream Wanted Charles Graham, of Pothat through the medium of that through the medium of the through the through the medium of the through the the through the the through the through the through the th	cow who has just completed another R.O.P. record of over 25,000 lbs. This youngster is a great in-
Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guarantee high- est market price.	<ul> <li>by the farmer's d of a straight, enrietta family, Lakefield. J. secured a roan got a nice red family. Henry g's Mills, also nia heifer, and</li> <li>by the nearest dams average 30.10 lbs. butter. We also have others younger. Write at once for prices, and see them. Priced to sell.</li> </ul>
Ontario Creameries LIMITED ONTARIO ONTARIO	<b>6 BULLS BY ESCANNA FAVORITE</b> A son of the famous Right Sort (imp.). All are ready for service and priced to sell. We have others that are heavy to well. W. N. , got a sweet, <b>6 BULLS BY ESCANNA FAVORITE</b> <b>6 BULLS BY ESCANNA FAVORITE</b> <b>1 1 1 1 1 1 1 1 1 1</b>

# Tests

ers to blend and should be to get



tests have been esults. Further, k men.

y profitably, and t is a complete

if not we will ho does, or ship

**Co.**, Limited

makers of all kinds of d information on any

SANE RIO ford. We have three of randson of No. 38053

#### APRIL 17. 1919

#### Questions and Answers. Miscellaneous.

#### Raw Furs.

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

Improving Quality of Milk. Can the quality of milk or butter-fat be improved by increasing the feed? A. D. I.

Ans.—It is the common opinion among stockmen that the quality of the milk depends largely on the individuality of the animal and upon the stage of lactation. Feeding will increase the flow of milk but has little influence upon the quality of the milk. There are exceptions to the rule, however, and some have been able to increase the test by the use of certain feeds in large quantities. Excitement will often cause a variation in the test. A cow nearing the end of the lactation will usually test higher than at the first.

#### Victory Bonds-Cow not up to Quaranty.

1. If a person , whose estate is invested 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 the cow calves she has a blind teat, can A claim damages? If so how much? What action should he take? J. M. H. Ontario

Ans.—1. No.

2. A has a right of action for damages for breach of quaranty, and may sue in the Division Court. The amount would be whatever the Court might consider reasonable.

Before resorting to litigation A ought to make an earnest effort to get an amicable settlement.

#### Hydro Tree Cutting.

I have two large black walnut trees in my front yard near the road fence, with some branches overhanging the Hydro electric wires. The trees were practically as large and as great a danger to the line when it was erected as they are now. 1. Can the H. E. Company cut these

trees down in spite of my protests? 2. If not, can they cut off the branches overhanging their wires, but which do

not touch the wires? 3. Does the law allow the Co's employee to be the sole judge as to the amount of cutting necessary to be done? Ontario. E. M.

Ans.—1. Yes.

3. It allows the Hydro-Electric Power 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 employees.

#### THE FARMER'S ADVOCATE

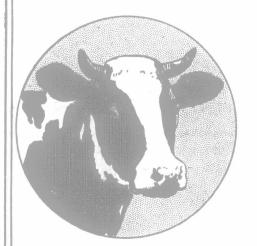
# How to Get Better Yields of Milk

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 proportions have been calculated with the utmost 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 54

791



lbs. in one day that I am offering for im-lore black than white. rice.

CK FARM

#### ane King

ber of approved cows—at a breed and his sire Ornaby er) 46.33 lbs. of butter and Hengerveld Korndyke is a is a 31.30 lb. grandson of

#### anville, Ontario

herd sire? She is a 26.96 lb. npion three-year-old R.O.P. is youngster is a great in-ell as females. Ingersoll, Ontario

ft—of serviceable age. All ns, and their individuality y Echo Sylvia. Can also Gypsy Pontiac Cornicopia. rry, Ont.

fit for service, a fine indi-f King Lyons Hengerveld, King Lyons Colantha, his . Write at once for prices,

TAVISTOCK, ONTARIO

#### DRITE

ed to sell. We have others service of the same sires.

BELLWOOD, ONTARIO

Farmer's Advocate."

#### De-horning Cattle.

1. When is the best time to de-horn cattle? Will it 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 blood in the stable?

2. What is a prescription for a condition powder for horses? H. D. G. Ans.-1. Dehorning should be done Ans.--1. Dehorning should be done when the weather is moderate, and before the fly season. March and early April is a very good time of the year to de-horn cattle. We would not care to de-horn cows heavy in calf. There is some danger of them losing the calf. Most cows will fall off in the milk flow a little, but once the wound is healed will usually but once the wound is healed will usually come back to normal.

2. A teaspoonful of the following three times daily, makes a very good condition powder: Equal parts sulphate of iron, gentian, ginger, and nux vomica. The horse should be fed well and given daily exercise.

A. McKenzie, of Oshawa, who is now in his eighty-sixth year, in renewing his subscription writes that he has taken 'The Farmer's Advocate" since it was a pamphlet of but a few pages issued month ly. "I much appreciate the journal and consider that it is one of the best farm magazines in the Dominion," said Mr. McKerzie.

#### 33-LB. GRANDSONS OF LULU KEYES

Write to-day.

I have at present ten young bulls all sired by my own herd sire, King Korndyke Sadie Keyes, a son of Lulu Keyes, 36.05 lbs. of butter and 785 lbs. of milk in 7 days. These youngsters are all first-class individuals, and their dams' records run as high as 33.28 lbs. of butter in 7 days. Several of them must go quick to make room. COBOURG, ONT.

(Hamilton House Farms) D. B. TRACY

#### Sunnybrook Holsteins! The Bull is the first consideration!

We have a few for sale highly strained in the blood of the World's Record cows, all sons of Sir Lyons Hengerveld Segis (one of Canada's greatest bulls). Nothing offered that is not from high testing dams. Inspection invited. Write for particulars.

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

## Manor Farm Holstein-Friesians

If it's a herd sire you want, write me. I have sons of both my senior and junior sires, King Segis Pontiac Posch and King Korndyke Sadie Keyes. All from good record dams. Choice bull calves at present to offer—average for two nearest dams, up to 34.71 lbs. butter to seven days. Correspondence solicited. Visitors welcome.

#### GORDON S. GOODERHAM, Clarkson, Ont. Farm on Toronto and Hamilton Highway

Stations: Clarkson and Oakville.

RAYMONDALE FARM

Vaudreuil, Que.

6 BULLS BY KING SEGIS PONTIAC DUPLICATE Brother to the \$50,000 bull. Three of these are ready for service and all are show calves. Write us also for females. We are pricing a number of heifers, bred to our own herd sire, Sylvius Walker Ray-mondale, a grandson of the great May Echo Sylvia. We now have bull calves a few months old by this sire. Let us know your wants. R. W. WALKER & SONS, Manchester Station, G. T. R Port Perry, Ont., R. R. No. 4.

#### **Elderslie Farm Holstein-Friesians**

Special offering—One bull fit for service, fine individual; dam gave 195.26 lbs. milk, 782.50 lbs. butter for year. He is a son of Judge Hengerveld De Kol 8th, who is a 32.92 lb. grand son of De Kol 2nd. Butter Boy. We have others younger equally as well bred. Write at once for prices or better come and see them. (Take Kingston Rd. cars from Toronto, Stop 37.) A. MUIR, Scarborg P. O., Ont. R. D. No. 1

743 King Street West	
Toronto - Ontario	
Messrs.A.J.Hickman & Co.	
Halse Grange, Brackley, England (late of Egerton, Kent)	
Exporters of all breeds of stock, draft horses, beef cattle and show and field sheep are specialties. You can buy imported stock, through us cheaper than in any other way, and we hope to get your enquiry at once, so that we can fit you out before this country is skinned of good stock, as it soon will be now the war is over.	
<b>Holstein Bulls</b>	

15 ready for service, 1 younger. From dams with 32.7 lbs. butter in 7 days to those priced for the most conservative buyer. Females also.

R. M. HOLTBY R.R. NO. 4, PORT PERRY, ONTARIO

#### Fairview Holstein-Friesians

Owing to lack of help, I offer my entire herd of thirty head, or part of it, mostly two and three-year-olds (milking), sired by bull with 90 lbs. a day on both sides.

FRED. ABBOTT Mossley, Ontario

**Cockshutt Corn Planter** 



It is Simple Requires no special skill to run-all working parts in plain sight. It is Durable

Best of materials—proper design; no breakdowns at critical times.

**Has Variable Drop** Plants thick or light to suit the land without stopping the machine.

Evenly Balanced Makes easy work, light draft, and less neck weight for horses.

Very Adaptable Plants 2, 3 or 4 kernels per hill, or drills it in rows-as you wish.

Fertilizer, Too Special attachment, works automatically, sows any desired amount.

## Plants Seeds in Hills or Drills it in Rows

Here is an Implement we are proud of. Every feature in it has been tested and proven hundreds of times in field. Its variety of work, its convenience, its established superiority—yet its simplicity and absence of intricate mechanism, make it ideal for Canadian work. You needn't dread a short planting season and "green" help if you 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 get a lot of good information in it that will help you this season.

Sold in Eastern Ontario,

Quebec and Maritime

Provinces by

COCKSHUTT PLOW CO. LIMITED Brantford, Ont

792

THE FROST & WOOD CO. LIMITED Montreal, St. John SMITH'S FALLS.

HEMME'S LATEST SEEDER Will sow either on drills or

level. It will sow seed exactly where you want it and not waste any where you don't want it same as planting by hand, thus saving a great deal of seed and labor in thinning as seed is sown 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 or fertilizer. You will produce enough extra roots to pay for it on 1 or 2 acres. Note the great amount of seed and labor it saves, will sow rape, turnip, carrot, onion, cabbage, sugar-beet, mangel, cucumber, sugar-cane, corn, or

FOUNDED 1866

Questions and Answers. Miscellaneous.

Blackleg in Cattle.

APRIL

Bet

**G**/

P

**G** Wit

carrie

a chee

suits

the rie

They

reach

that 3

maxin

**G** Gar 25, 50

dealer

andfor

Calf N Cottor

GAR

**BRO**S

**Specialis** 

SARNIA

Ont.

17

Summ

Feed

Is there any preventative for black-leg in cattle? We had several die when turned out last spring. Is there a vaccine for it, and if so where can it be

Ans.—There is a vaccine to be used as a preventative for blackleg. Write Dr. F. Torrance, Veterinary Director General, Ottawa, regarding the vaccine,

Treating Potatoes for Scab. How much formalin should be used for

a bushel of potatoes when treating for scab?

Ans .- Treatment for potatoe scab consists of immersing the tubers for two hours in a solution of one pint of formalin to thirty gallons of water, after which the tubers should be put in clean sacks or bins. Treatment should be given before the potatoes are cut.

#### Killing Willow Trees.

What will kill young willow trees in swampy land? The old trees were cut a few years ago but the young shoots are now about an inch thick. C. B.

Ans.-Willows are very persistent and are rather difficult to destroy without entirely removing the stump. Peeling the bark back will help to destroy them. Some claim that boring holes in the stump and filling with coal oil will kill the growth. However, you will likely find that it will be necessary to use the axe quite frequently in the removing of the new growth.

#### Warbles.

What is the cause of warbles in cattle forming a large lump of matter, instead of the worm coming out whole as it usually does? Can anything be done to help the present condition of affected animals? D. A. B. D. A. B.

Ans .- The matter forming indicates that the worm has died and a little inflammation has set up. It is advisable to go over the animals and squeeze out the warbles and kill them. It may be necessary to use a sharp instrument to lance the lumps. After removing the matter and the warbles, it might be well to use a little disinfectant solution.

#### Heaves.

Is ther any cure for heaves? G. E. M.

Ans .- The common causes of heaves are pre-existing diseases of the respiratory organs, severe exercise when the animal 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 drink large quantities of water after feeding than in horses that are fed on clean, high-quality feed. Chronic in-Heaves the disease. ion aggravate 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 liberally on grain. Sprinkling the hay and oats with a little lime-water is recommended.

Our Oxf Re We have at

The Sheep for



#### Sweet Clover and Alfalfa.

What time of the year is it advisable to sow sweet clover and alfalfa. How much seed should be used per acre? The field I was thinking of sowing it on has not been seeded down for fifteen years. The soil is of a sandy nature and about half the field is rolling. I was thinking of working the field until about the middle July and then sowing the hilly part with sweet clover and the level part with alfalfa, without a nurse crop. T. J. C.

Ans .- Sweet clover and alfalfa both do very well when sown alone on well prepared soil. Sown in July or in the spring. Both crops may be sown with a nurse crop in the spring. Alfalfa requires a soil where the water-level is several feet below the surface. It is a 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 almost anywhere. It is a very good pasture crop but alfalfa is superior for hay. From 15 to 20 U 15 to 20 lbs. of seed per acre is very good rate of seeding.

ewe lambs-th and breeding s

PETER R. R. No. 1 H. C. Arkell

EASI

Shear with a m saves you t quickly witho shearing gets 1 even stubble growth. Get a ing Machine.

send us his nam CHICAGO F Dept. A 161, 12th F

Shropshire ew Clydesdale Sta W. H. Pugh

Shropshires

lambs, good size Y O I

WEL

Farmer's A Four D

to Farrow in Ap lowest price F Abbotsford, Qu

ions and Answers. Miscellaneous.

lackleg in Cattle.

any preventative for black-e? We had several die when it, and if so where can it be

ere is a vaccine to be used ntative for blackleg. Write rrance, Veterinary Director tawa, regarding the vaccine.

ing Potatoes for Scab.

h formalin should be used for potatoes when treating for

atment for potatoe scab mmersing the tubers for two lution of one pint of formalin lons of water, after which the d be put in clean sacks or ment should be given before are cut.

#### ling Willow Trees.

kill young willow trees in d? The old trees were cut igo but the young shoots are n inch thick. C. B. ows are very persistent and

lifficult to destroy without oving the stump. Peeling k will help to destroy them. that boring holes in the illing with coal oil will kill However, you will likely will be necessary to use the quently in the removing of th.

#### 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

D. A. B. matter forming indicates m has died and a little inas set up. It is advisable e animals and squeeze out nd kill them. It may be use a sharp instrument to nps. After removing the e warbles, it might be well disinfectant solution.

#### Heaves.

ure for heaves? G. E. M. common causes of heaves g diseases of the respiratory exercise when the anima ion, and the wrong method leaves are more common are fed heavily on dusty lover hay and allowed to uantities of water after n horses that are fed on ality feed. Chronic in-Heaves ent disorder but may be areful attention to the Dusty hay should not be The animal should not gorge itself on water or working, feed lightly on, more liberally on grain. hay and oats with a little commended.

#### APRIL 17, 1919

**T** 

# Between Weaning and Fattening, Feed

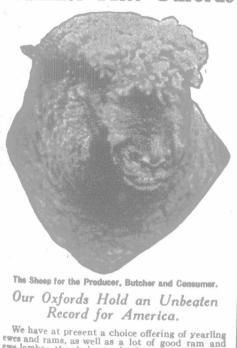
MEAI

With skim or separated milk it carries the young pigs along without a check from weaning, because it suits their digestion and contains the richness of the mother's milk. They build up on it very fast, and reach the fattening stage so quickly that you get a chance to make maximum profits on them.

**Gardiner's** Pig Meal comes in 25, 50 and 100-lb, bags. If your dealer hasn't it, write us for prices, and for information about Gardiner's Calf Meal, Ovatum, Sac-a-fat and Cotton Seed Meal.

GARDINER **BROS.** Feed Specialists, SARNIA. Ont. 17

Summer Hill Oxfords



## THE FARMER'S ADVOCATE.

#### Questions and Answers. Miscellaneous.

#### Irregular Line Fencing.

A and B own adjoining farms. The line between them has never been surveyed by a legal surveyor. The rail fence has been kept up part through cleared land and part bush by mutual agreement both parties knowing that it was not in its right place or straight but agreeing mutually that when a new fence was being built that it would be put in its proper place. Now B sold out to A and C to D and the trouble now arises between A and D.

1. Does the ten year limit of peaceful

2. If the land was equally divided and the lines staked by two neighbors both disinterested parties and A and D agree to their measurements and setting of stakes would it be legal?

3. Or would they have to get a legal surveyor?

A has often mentioned that said line fence was not in its proper place to B. C. and D. Would that be sufficient notice that it was disputed?

Ontario. F. I. E.

Ans.—1. No. 2. Yes.

3. No. 4. Yes.

Settling up an Estate.

If a man owning a farm rents it to his son and makes his will that the son is to pay a stated amount to the several members of the family stated in the will within three years after the death of the last parent, can the executors compel the son to pay off the shares to the several members of the family before the three years expires?

2. Can the Executors compel the son to pay over the money to the several members of the family mentioned in the will before they have signed off their claim, one living in Chicago, one in New York and one in California? 3. Should the Executors have the

papers sent to the several members mentioned in the will and have them sign off their claim and have the deed ready for the son at the time he pays the money?

Should the son pay the money to the Executors or send it direct to each member so mentioned in will?

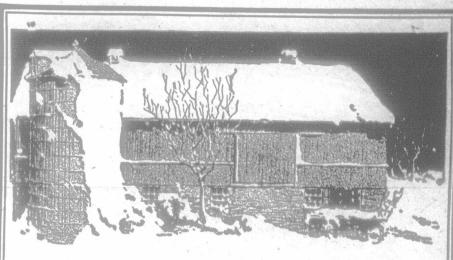
5. What commission can the Executors collect for their service rendered?

6. Who should pay the Executors for their service? What commission can the solicit-

or collect that the Executors employ to do the business?

Who should pay the solicitor? If the solicitor and Executors are

all in the same office room when the son writes out the cheques for the money for the several members mentioned with the bank exchange included, and none of them ever mention any thing about their fees or the allotted portion of their fees to be kept back can they compel the son to pay al! their commission?



793

## June Pastures in Winter **Compactly Stored in a Silo**

TEXT winter, when pastures are covered with snow, you will appreciate the great saving and convenience of a silo full of rich, juicy silage. It will be like having June pastures in January. Cows produce the same big flow of milk on silage as on pasturage, and you will get it right at the time when dairy products are worth the most. In spite of the great milk-producing value of silage, it is actually 15 to 20 per cent cheaper than any other feed you can use.

## Place Your Order Now for an **IDEALGREEN FEED SILO**

Don't go through another winter without silage. Now is the time to get your silo erected so that it will be ready when the crop is ready. Nothing is gained by delay, and if you wait until the last minute you will likely be put to extra expense to get the silo up in time.

Ask for our large illustrated silo catalogue that shows every detail of this silo-how the parts are made and put together, and the quality of the material used.

#### THE DE LAVAL COMPANY, Ltd. LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA. Sole manufacturers in Canada of the famous De Laval Cream Separators and Ideal Green Feed Silos. Alpha Gas Engines, Alpha Churas and Butter-Workers. Catalogues of any of eur lines mailed upon request. MONTREAL PETERBORO WINNIPEG VANCOUVER

## INCOLNS C. Nicholson of Horkstow LINCOLNSHIRE, ENGLAND

has for sale Pedigreed Lincoln Long Wool rams and ewes from his world-famous flock of ALL DUDDING-BRED SHEEP. By winning the CHAMPION and "ALL" the prizes in the two-shear and shearing ram classes at the Royal Show of England, 1915, all previous records were broken. Coates Shorthorns and Lincoln Red Shorthorns also for sale. STATION-BARNETBY

#### over and Alfalfa.

f the year is it advisable lover and alfalfa. How ld be used per acre? The king of sowing it on has d down for fifteen years. sandy nature and about rolling. I was thinking eld until about the middle en sowing the hilly part er and the level part with a nurse crop. T. J. C.

clover and alfalfa both hen sown alone on well Sown in July or in the ops may be sown with a the spring. Alfalfa rehere the water-level is ow the surface. It is a s well in some sections n others. On the heavy and County it grows to et clover does well al-It is a very good pasture s superior for hay. From eed per acre is very good

ewes and rams, as well as a lot of good ram and ewe lambs—the choicest selection of flock-headers and breeding stock we have ever offered.

PETER R. R. No. 1 H. C. Arkell	<b>ARKELL &amp; SONS</b>
	Teeswater, Ontario W. J. Arkell F. S. Arkell

#### EASIER SHEARING

**LASILK STILAKIIVG** Shear with a machine—get more and better wool —saves you tired arms or swollen wrists. Do it quickly without scarring the sheep. Machine shearing gets 15% more wool and leaves a smooth even stubble that will in@ease next season's growth. Get a Stewart No. 9 Ball Bearing Shear-ing Machine. If your dealer can't supply you send us his name. Write for catalogue. CHICAGO FLEXIBLE SHAFT COMPANY Dept. A 161, 12th Street and Central Avenue, Chicago, III.

FOR SALE

Shropshire ewe lambs and young ewes, two Clydesdale Stallions, four Shorthorn bulls. W. H. Pugh - Myrtle Station, Ont.

**Shropshires and Cotswolds**—A lot of young ewes in lamb to imp. ram, and ewe lambs, good size and quality, at reasonable prices. JOHN MILLER, Claremont, Ont.

#### Yorkshires We are now booking orders for our Tring pigs. Write for prices.

WELDWOOD FARM

Farmer's Advocate, London, Ontario

Four Duroc Sows or Gilts to Farrow in April; also young service boar. State lowest price. F.O.B. Abbotsford, Que. Box 1, Abbotsford, Que.

10. If the son refuses to pay all the fees which the solicitor and Executors claim they should have, can the solicitor or Executors legally hold the deed until he does pay it?

V. M. V. S. Ontario.

Ans.—1. No. 2. 3 and 4. The remittance should be made through a Bank, and forwarded along with releases to be executed by the legatees at the time they actually receive payment from the Bank's agents. matter should be attended to conjointly by the Executors and the testator's son The precise form the release should take depends upon the wording of the will and is a matter for consideration by the Executors'Solicitor.

5. Their is no fixed allowance. The amount whatever the parties interested may agree upon, or, failing such agreement, whatever the Surrogate Judge may, upon the passing of the Executors' accounts, consider reasonable. He may or may not adopt a commission basis for the allowance.

6. The son-assuming that he is the residuary legatee and devisee

7. He is not paid by Commission but by fees for his legal services rendered. The Executors, they in turn charg-8. ing the amount to the Estate with, of course, the result that it comes out of the

9. That would not affect their legal right to be paid, for their services and disbursements out of the Estate. 10 Yes.



Still to the fore, wi' a bonny bunch of gilts, bred and ready to breed; a few weaned laddies. Ca' in as ye're passin' or write me a bit note. Leslie Hadden, Pefferlaw, Ont., R.R. No. 2.

794

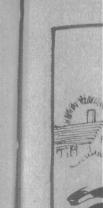
RECEIVED AT

JOHN BROWN

2 6P QA

#### THE FARMER'S ADVOCATE





APRIL 17,

# Which Separator did John Brown Buy?

FY W CHESTER 845AM DEC 21 1918

SKIMS CLEAN AT ANY SPEED

SHARPLES SEPARATOR CO.

STATION 25 BEETON, ONT.

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.

# SUCTION-FEED REAM 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



# Our School Department.

#### **Relationship of the School** Garden to the Class-Room.

BY L. A. DE WOLFE, M. SC. The school garden helps the class-room in, at least, two ways. First: it gives that healthful exercise so necessary to 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. Many a boy gets his first lesson in good manners and community welfare when he is taught not to walk in his pupil-neighbor's garden plot.

The lessons on soil physics, in connection 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 botany.

What better arithmetic problems can be given than the boy's own problems to find how much seed or how much fertilizer his garden requires, when the tabulated amounts given are per acre?

The insect pests furnish good lessons in entomology. The insecticides and 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 often well taught

The written descriptions of garden operations furnish unlimited exercise in English composition. No drawing lessons could be more-attractive than those based on the garden and its products; and no reading should be more suitable than some of the best garden compositions written by the students.

Commercial geography will, perhaps, be helped more than any one subject. In the hands of the skilful teacher, the school garden is the connecting link between the school and the real world.

#### **Testing Germinating** Qualities of Seed.

J. G. ADAMS, UNIVERSITY OF TORONTO

In planning for the school garden the be over-estimated. How often is the success of the garden spoiled by sowing seed which fails to germinate, or which produces only weak, sickly plants? The quality of the seed determines the vigor and value of the crop just as much as the quality of the soil or the methods of cultivation. And unless good seed be obtained these other factors are valueless. The seeds should be fresh, plump, bright inscolor, and of good weight for the kind of seed. But the quality cannot be accurately told from the appearance. A sample of the seed should be tested before planting to learn the percentage of germination. And this may furnish also ome indication of the vigor of the plants In testing for germination moisten a piece of cotton flannel or a piece of blotting paper and lay in a dinner plate. Then count out exactly one hundred seeds and place them in the centre. Cover with another moist cloth or blotter and invert another plate over them. For small seeds the blotters may be marked off into four sections with a lead pencil, and four kinds can be tested at once. The plates should be kept in a warm place. On about the third day the seeds that have germinated should be taken out and a record kept of them. Some ceeds will germinate in a few days, while others may require as much as two weeks.

Beet and chard seeds normally test out more than one hundred per cent., because each of these seeds is really a fruit, which usually contains more than one embry

The vigor of the seedlings should be noted and a record made of them. When removed from the dish they may be grown for a few days on a separate piece of moist blotting paper or cotton flanne kept in a warm place. Note the percent age number of seeds giving healthy plants of at least average growth.

None of the samples of seed should run below a seventy-five per cent. germin ation test, and should be nearer ninety and ninety-five per cent. to give satisfact tory results.

#### A Pound of Butter. BY H. H. DEAN.

The oil of butter is especially well adapted for oiling the brain. Brainworkers should use plenty of good butter and never any of the substitutes for cow's 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 weather is cold. It furnishes energy to do physical and mental work.

Butter consists of the tiny milk-fat globules (so small that it requires about ten thousand of them lying side by side to make a line an inch long) which are massed, or packed together, by means of a churn. After massing the fat globules, the butter-milk is removed, the butter is washed with clean, cold water, salt is added to taste, then the butter is worked to mix the salt through the butter, expel the surplus moisture and to make it com-

pact for printing or packing. The finest flavored butter is made from weet cream, and the butter is salted very lightly. Such butter has the true "creamy," natural flavor of fine butter. Ordinarily, however, after the cream is separated from the milk by setting it for twenty-four to thirty-six hours in shallow pans, or deep cans, or by running the milk through a cream separator, the cream is soured or ripened, making what is known as ripened or sour cream butter.

Butter for local markets and home use is best made into prints weighing one pound. All farm dairy butter, put up in prints or boxes must be branded with the word "Dairy," and such butter may not have the word "Creamery" on the wrapper or package.

Butter made during the summer may (crock, tub, or box), and if kept in a cool place this will be quite palatable in winter, when butter is scarce and dear. The 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 Canadians. Butter substitutes should find no place in Canada.

We have doubled our factory capacity and are determined to supply our customers far and near. See ad. also on page 740.

#### A Community's School Gardening.

#### BY S. B. MCCREADY

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 Progress 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-building and agricultural-education enterprise.

APRIL 17, 1919

#### THE FARMER'S ADVOCATE.

## artment.

chard seeds normally test out one hundred per cent., because ese seeds is really a fruit, which ntains more than one embry or of the seedlings should be a record made of them. When rom the dish they may be grown days on a separate piece of tting paper or cotton flannel warm place. Note the percent er of seeds giving healthy plants average growth.

f the samples of seed should a seventy-five per cent. germinand should be nearer ninety -five per cent. to give satisfac-

#### ound of Butter.

BY H. H. DEAN. of butter is especially well or oiling the brain. Brainould use plenty of good butter any of the substitutes for cow's h as ''oleo,'' ''peanut-butter."

is "concentrated sunshine," butter tends to make people shiny" in disposition. It is t producer," and may be used y in winter when the weather furnishes energy to do physical work.

onsists of the tiny milk-fat small that it requires about d of them lying side by side line an inch long) which are packed together, by means of fter massing the fat globules, nilk is removed, the butter is h clean, cold water, salt is ste, then the butter is worked alt through the butter, expel moisture and to make it comiting or packing.

flavored butter is made from and the butter is salted very uch butter has the true atural flavor of fine butter. however, after the cream is om the milk by setting it for to thirty-six hours in shallow ep cans, or by running the h a cream separator, red or ripened, making what ipened or sour cream butter, local markets and home use e into prints weighing one farm dairy butter, put up boxes must be branded with airy," and such butter may e word "Creamery" on the

ackage. de during the summer may lidly in an a or box), and if kept in a cool be quite palatable in winter, is scarce and dear. The ie and September are usually ths for packing butter. er is a wholesome food, and ed largely on the tables of Butter substitutes should in Canada.

ALKAUMA 

# **Does a Farmer Need a Truck?**

AMERICAN farmers use more trucks than 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. Everything he sells brings him less than the market price because 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.

A Ford Truck makes the same trip in two or three hours!

795

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 type most 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.

#### munity's School Gardening.

S. B. MCCREADY foundation securely laid l unselfish, active interest of the community, plans for are of the garden can give It is only a matter of good verybody will be helping. will do their share. The will do their share. The nittee will do their share, will be strong supporters s. The School Progress see the pupils' work. The live and a thing of beauty on if the temport en if the teacher cannot oin in the many good times had at their school. When k, she will find that her holds together round the A simple little school ber will be the fitting community-building and cation enterprise.

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. 1111

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 you 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. Freight charge to London, \$15.00; Toronto, \$17.00; Montreal, \$22.00; St. John, \$31.00; Winnings, \$47.00; Regins, \$65.00; Saskatoon, \$66.00; Calgary, \$77.00; Vancouver, \$93.00.

Per either Stake or Express Body, in load coat with cab but without doors 
 \$125.50
 F. O. B. Ford

 \$133.00
 F. O. B. London

 \$134.00
 F. O. B. London

 \$137.00
 F. O. B. Montree

 \$137.00
 F. O. B. St. John

Re in alle

100

For either Stake or Express Body, in lead coat with cab but without doors \$140.00 F. O. B. Winnipeg \$143.00 F. O. B. Regins \$143.00 F. O. B. Saskatoon \$147.00 F. O. B. Calgerr \$151.00 F. O. B. Vancouver

If painted job desired, add \$4.00 to above prices. If doors desired on cab, add \$6.00 to above price.

Ford Motor Company of Canada, Limited, Ford, Ontario

THE

APRIL 17, 1910

LIV.

ER MILKER

**AVERY TRACTORS** 

BUILT

Follows Nature

# THE LISTER MILKER "Follows Nature"

796

• 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 HOURSJOF TRACTOR WORK INSTEAD OF DAYS OF HORSE 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 out 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.

