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\* AGRICULTURE, STOCK, DAIRY, POULTRY, HORTICULTURE, VETERINARY, HOME CIRCLE.\*

VOL. LIII.

, 1918

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LONDON, ONTARIO, MARCH 28, 1918.

PERSEVER

No. 1331

PARTIE STINGS CON NO



A farmer is justified in feeling proud when he shows his neighbors his new FROST fence. It stands up there as "straight as a ramrod" and as spic and span as a soldier on inspection parade.

Its perfectly put on locks, and precisely straight and even spaced stays—its splendid outward appearance—are indications of its staunchness and goodness.

Years of service on many thousands of Canadian farms, with tremendously severe tests imposed on it, attest to its enduring stamina, and confirm all we have said about FROST fence as a lasting investment.

The FROST Company have always had one thought in mind—to build FROST fence so well that buyers of it will come back again every time they require new fence.

Our greatest asset is the great and ever increasing number of FROST fence customers—

an army of boosters for FROST QUALITY.

If you were to visit our mills and see how we make and galvanize the wire—how we put that peculiar elastic wave into Frost laterals—how carefully the locks are applied without kinking or weakening the laterals—you would have a pretty good idea why FROST fence is FIRST in quality, in service and in value. The next best thing is to see one stretched up on a field or to examine one at a FROST dealer's. If you don't know a near-by dealer, write us.

A style for every purpose.

# Frost Fence First

Frost Steel and Wire Company, Limited

Hamilton, Canada

MORORMICK

DECAUSE drill-planted seed gets an earlier,

D more even start - because drill planting saves seed and produces a better grade of grain-

because drill planting saves time and work and because the McCormick drill is one from which you get all these advantages, buy a McCormick

double-run feed which handles accurately both large

grain and small, from peas and beans down to flax, planting any desired quantity per acre, planting if evenly, and covering it to just the right depth. Your crop could not get a better start than the one given to it by a McCormick drill. See the McCormick local dealer when you are ready to buy. He will show you all the details of construction that put the McCormick drill at the head of its class. Or, if you write the nearest branch house below, we will send you full information.

International Harvester Company of Canada, Limited

BRANCH HOUSES

The McCormick comes in single disk and hoe styles, 11 and 13 marker sizes. All have the famous

Buy a McCormick

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Toronto Silo than in any other silo costing about the same to erect. The hip roof lets you tramp down the ensilage right up to the top of the

Now consider the construction of a TORONTO Silo. All woodwork is carefully selected spruce, thoroughly impregnated with hot tar and creosote. The wood cannot rot and is not affected by ensilage Then Toronto Silos are airtight be-cause the staves are DOUBLE tongued and grooved double protection against frost as well as air. The Toronto Silo booklet sent upon Ontario Wind Engine & Pump Co., Limited Atlantic Ave., Toronto.

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drill

Write for our new casy payment, free trial, plan. We will send you an engine complete without a payment of any kind to test outen your own farm. Just try it— you'll wonder how you got along without it. You'll be surprised how quickly it will pay for itself. of this "Help the Allies" Grinding Outsit and special proposition.

**GILSON TRACTOR** 



THE STANDARDIZED TRACTOR

-is a business machine designed along sound mechanical lines of proven worth, with no freak features. 15-30 h.p.

Write for free catalogue and rock bottom prices.

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BUILD CONCRETE SILOS Dwellings, or any class of buildings, from Con-

crete Blocks.

THE LONDON AD
JUSTABLE BLOCK
MACHINE makes all
sizes and designs of
Concrete Blocks. Price
865 00 Sand for extra \$65.00. Send for catalogue No. 3.

LONDON CONCRETE MACHINERY CO. Dept. B., London, Ontario.
World's Largest Manuf'rs of Concrete Machinery.

When writing please mention this paper.

#### APPLE TREES

If you intend planting Apple Trees or any Nursery Stock this spring, be particular as to the kind you get and be sure they are grown right, are healthy and clean, and backed by a reliable, dependable company.

PLANT E. D. SMITH'S TREES

They cost no more than inferior, poorly-grown trees and they are all inspected by Government inspectors'

If you are unfamiliar with the best varieties for your section, we will be glad to assist you in your selection, and such assistance places no one under any obligation to purchase. We have nearly 800 acres devoted to Nursery Stock and Orcharding, and can supply first-class stock of the following selected and inspected trees.

APPLE, PLUM, PEAR, CHERRY, QUINCE, PEACH, APRICOT, SMALL FRUITS, GRAPE VINES, ORNAMENTAL TREES, SHRUBS, CLIMBING VINES, HERBACEOUS PERENNIAL ROOTS, ETC.

Catalogues and Prices on Application.

E. D. SMITH & SON, LTD., Nurserymen, Etc. WINONA, ONTARIO ESTABLISHED 1882

#### THE WONDERFUL GILSON

SIMPLY CAN'T BE CLOGGED. The simple, scientific, carefully worked-out construction of the light running Gilson Silo Filler makes it absolutely impossible to clog the throat of the blower. The Gilson is the lightest running blower cutter made. It has broken all records for high elevation and rapid work with light power. A 4 h.p. operates the small size splendidly. Made in three sizes to suit any power. The Gilson is rightly called the

KING OF SILO FILLERS

because of its remarkable elevating powers, absolute safety, durability, strength and simplicity—it stands supreme. It has convenient and quick knife adjustment; solid steel-bound cutting wheel; patented safety reverse—and is guaranteed to cut and elevate MORE ensilage with the SAME power than ANY other ensilage cutter IN THE WORLD. Write to-day for catalogue and proof. Manufactured and guaranteed by—

GILSON MANUFACTURING CO. LTD. . 509 York St., GUELPH, Ont.

Bax Legal Will Form has stood NURSERY STOCK Courts. Don't take substitute. A Bax Will Form is simple, has full directions. You can't make any mistake. Ask for Baxat stationers, 35c. Make your own will at home.

AT WHOLESALE PRICES.

First-class and true to name. Send for catalogue. No agents.

The Imperial Nurseries, Ridgeville, Ont.

Sweet Fresh Ensilage down to the last forkf

THE HYLO SILO is per fectly air-tight. No frozer or goaled ensiting around the walls. Convenient and perfect fitting doors, adjustable without Write for prices and cate
AGENTS WANTED Mig. Co. Ltd. 69 York St.

KLINE FANNING MILI Will Clean Out All Wild Oats Is the fastest and best mill on the market or money refunded. Ask the man who owns one.

Write for Pamphlet

BEETON, ONTARIO KLINE MFG. CO.,



Strawberry Plants, etc. We have a full line of first-class Strawberries, Rasper-ries, Currants, Gooseberries, Grapes, Asparagus Roots, Fruit Trees, Ornemental, Roses, Seed Potatoes, etc. Write for free catalogue.

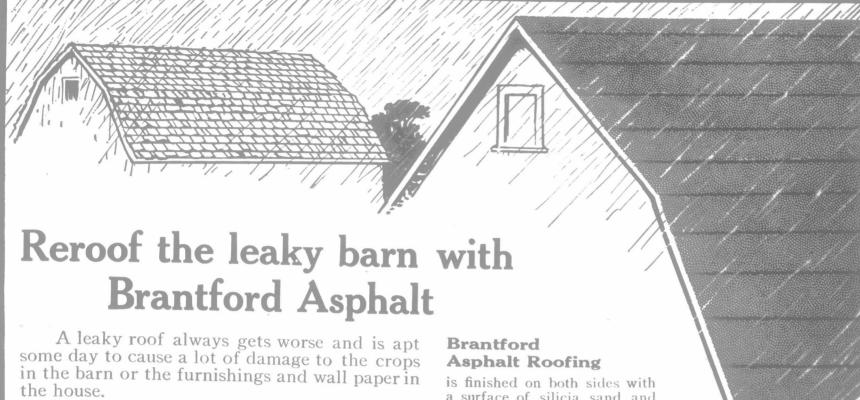
H. L. McConnell & Son, Port Burwell, Ont.

O. A. C. 72 SEED OATS Registered and Improved, grown on rich, clean soil; large yields. Write for sample and prices.

J. S. HILBORN Sec. Dumfries and Wilmot Oat Seed Centre New Dundee, Ontario

Happy Far

1866



With Brantford Asphalt Roofing selling at such reasonable prices, it is true economy to roof with it. There is hardly another line of goods that has had the small advance in cost since the war that Brantford Roofing has had. By installing improved machinery and increasing the volume of our output, we have lowered our cost of production which has enabled us to keep down the price of Brantford Roofing below what might be expected in the face of the rising cost of raw material, labor and transportation.

Old wooden shingles are being replaced with Brantford Asphalt Roofing. It can be laid very rapidly, saving time, which means considerable when labor is scarce and high. It is a wonderfully fire-resistant roofing—a fire starting on a Brantford Asphalt Roof being unknown to this day. It is also very durable being completely waterproof and the asphalt blended and tempered to resist all the extremes of the Canadian climate.

Brantford Asphalt Roofing

a surface of silicia sand and is made in three thicknesses and weights.

No. 1 is 60 lbs. per square. No. 2 is 70 lbs. No. 3 is 80 lbs.

#### **Brantford Rubber Roofing**

has the same high quality asphalt saturation and coating as Brantford Asphalt Roofing but it has a smooth, rubbery surface instead of being sanded. It is also in three weights. No. 1 is 40 lbs. No. 2 is 50 lbs. No. 3 is 60 lbs.

#### Standard Mohawk Roofing

While this roofing is lighter in weight than Brantford Asphalt and Brantford Rubber it is the best quality of any low price roofing on the market. It is a standard that has been tested for years and given entire satisfaction. Sanded on one side. One weight only—40 lbs.

#### Mohawk Rubber Roofing

The same grade as Standard Mohawk exept that it has a smooth surface. Used for all classes of temporary works -sheds, barns, shacks, bunk houses, camp sites; and even dugouts in the trenches are covered with it. 35 lb., 45 lb., and 55 lb. weights.

#### Leatheroid Roofing

Slightly lower quality than Mohawk Rubber and used for same purposes. Has a leathery surface. Exceptionally good roofing at a low price. 35 lb., 45 lb., and 55 lb. weights.

Samples and prices mailed on request.

Head Office and Factory, Brantford, Canada Branches at Toronto, Montreal, Halifax

Happy Farmer Tractor handling 3 bottom 14 inch plow backsetting Timothy Sod



## Thirty-One Cents

At Brandon the Happy Farmer demonstrated its ability to plow an acre in 45 minutes at a cost of only 31 cents worth of coal oil! Compare this with the cost of plowing an acre with your best team, with feed at high prices, and men's extra time to be counted in. Will it not pay you to use the

Model A-8-16 Horsepower.

Model B—12-24 Horsepower.

Here is the ultimate tractor for efficiency and economy combined! It is famous for its simplicity—few parts to get out of order. Any intelligent farm lad can run it. It is heavy enough for the hardest plowing test and for heavy hauling--light enough to use with the drill. And it will go anywhere; it will plow right up to the fence with no unfinished corners. It will turn in

its own space and not mire in soft spots. Model B's engine is not just "adapted" to coal oil. It is designed specially for kerosene. It burns it perfectly -all of it-with no smoke nuisance and no carbon trouble. Model B will not only pull the plow and the binder, getting your work done early in critical times, but it will deliver 24 horsepower for all kinds of belt work at low up-keep cost.

If you prefer a lower power tractor, Model A

Write us for full particulars about price, delivery terms, etc. Literature free on request.

Branches almost everywhere in Canada

The Renfrew Machinery Co., Limited Med Works Renfrew, Ont. Eastern Branch, Sussex, N.B.



# "I'm Off to Town, Is There Anything More You Want?"

OUR son or daughter will be able to handle your shopping in town,—to take your produce to market, or to invite "hands" to the threshing or silo-filling, if you own a Ford. Furthermore they always will be glad to make the trips.

In doing these errands they take a man's place. They save your time—and that of a horse. This time saving means money to you, and again, a Ford, it has been estimated, costs less than two cents a mile to drive, or two-fifths of a cent a mile per passenger. The Ford is, therefore, much cheaper than a horse to drive. It is safer. It is more enjoyable. It requires less attention. It will soon pay for itself. The Ford is the farmer's utility car.



THE UNIVERSAL CAR

Touring - - \$595 Runabout - \$575 Coupe - - - \$770 Sedan - - - \$970 Chassis - - \$535 One-ton Truck \$750

F. O. B. FORD, ONT.

Ford Motor Company of Canada, Limited Ford, Ontario



Better Crops Result from Spraying



Ins knapsack is ideal for spraying small plots of potatoes, shrubs and all small fruits. It is strongly in ide, powerful, and easily operated. We make the SPRAMOTOR in a size and style for every need—operated by hand, horse or g soline power. Prices a mee from S7 up to \$100. Mode in Canada, Ne diverge to the size of the canada, Ne diverge to the size of the canada, Ne diverge to the size of the canada. Ne diverge to the size of the canada, Ne diverge to the size of the

Send to-day for our free book on Crop Diseases and Spramotor Styles.

W. H. Heard Spramotor 4059 King St., London, Can.

# Clover Seeds

(Government Standard)

No. 1 Alsike	\$16.00	
No. 2 Alsike	15.00	
No. 1 Ked Clover	94.00	
No. I Alialia (Northern)	10 00	
No. 2 Timothy (No. 1 Purity)	5 50	
O.A.C. 72 Oats	. 1.25	
Silver Mine Oats.	. 1.25	
O.A.C. 21 Barley	. 2.00	

Terms:—Cash with order. Pags extra, 50c. each. Jute bags for oats, 20c. We will pay freight on clover seeds.

We guarantee our seeds to satisfy

you, Or you may ship back at our expense.

Ask for samples if necessary.

Caledonia Milling Co., Limited
Caledonia, Ont.

# **Clover Seeds**

(Government Standard)

Per b	us.
No. 1 Red Clover	.00 .50 .50 .00 .00 .50 .00 .50 .25 .50 .00
Terms:—Cash with order. Ba extra, at 45c. each.	gs
On all orders, East of Manitoba,	of

On all orders, East of Manitoba, of \$25.00 or over we will pay the freight.

We guarantee seeds to satisfy of ship back at our expense.

Ask for samples if necessary.

TODD & COOK
Seed Merchants

Stouffville

Ontari

# Selected Seed Grain

OATS	Per	bus
O.A.C. No. 3	2	1.50
Alaska		1.75
		1.25
O.A.C. 72		1.25
Newmarket		1.20
Abundance		1.25
Early Yielder		2.00
O.A.C. 21 Barley (choice)		1.75
No. 2 sample		
Black Barley		3.50
Forly Contemnial Page		4.25
Wild Coope Whent \$2.75	and	3.00
Red Clover.—No. 1		
Alsyke No. 1		
No. 2	1	6.00
Timethy No 1 for purity		5.75
Alfalfa (Northam Crown)	1	7.00
White Blossom Sweet Clover	1	8,00
White Diosson Sweet Clover		

We have a car of New Brunswick Irish Cobbler Potatoes to offer. The best early potato in existence. Write for prices.

Terms—cash with order. All prices ex-ware house, Guelph.

Cotton bags 50c. each; sacks 15c. each.

#### HEWER SEED CO.

90 Macdonnell St. E., GUELPH, ONT.

O.A.C. 72 Oats—\$1.20 per bus.

In dispose of our supply before the rush of work
tomes, we offer at this low price. Jute sacks 10c.
extra. Sample guaranteed satisfactory.

H. C. NIXON

St. George, Ont.

MARCH 28, 19

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Belo Onta ouebec MARI PROV

HE No.

No. (apart, spa

No. 2

No. 8
apart, spa
No. 8
apart, spa

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No.64 spacing 7,
No. 9 spacing 4,

"IDE No. 1

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3 fee

4 feet 10 feet 12 feet 13 feet 14 feet

Buy N

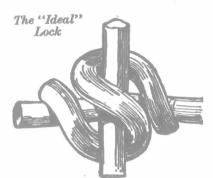
16 feet

THE

35

10

NT.



# "IDEAL" FENCE **PRICES**

#### FREIGHT PAID TO

Below we give the freight-paid prices to any station (except Electric) in Old Ontario on orders of \$15.00 or over. Prices for New Ontario quoted on request.

QUEBEC AND MARITIME PROVINCES We have opened a warehouse and office in Montreal to handle Eastern shipments and correspondence. Ask our Branch, 14 Place Royale, Montreal, Quebec, for "Ideal" prices, freight paid to any station in Canada, east of Montreal.

We have a large stock of all styles of "Ideal" fence on hand and will ship all orders the same day as received while stock lasts.

#### HEAVY "IDEAL"

No. 5380 5-line wires, 38 inches apart, uprights 22 ins. apart, spacing 9, 9, 10, 10. Per rod.........

No. 841 8-line wires, 41 inches high, uprights 16½ ins. apart, spacing 4, 4, 5, 6, 7, 7, 8. Per rod... 626

No. 8410 8-line wires, 41 inches high, uprights 22 inches apart, spacing 4, 4, 5, 6, 7, 7, 8. Per rod.... 576

No. 847 8-line wires, 48 inches high, uprights 16½ inches Per rod... apart, spacing 4, 5, 6, 7, 8, 8, 9. Per rod

No. 8470 8-line wires, 48 inches high uprights 22 inches 58c apart, spacing 4, 5, 6, 7, 8, 8, 9. Per rod

No. 951 9-line wires, 51 ins. high, uprights 16½ ins. apart, spacing 4, 4, 5, 6, 7, 8, 8, 9. Per rod.......

No. 9510 9-line wires, 51 inches high, uprights 22 inches apart, spacing 4, 4, 5, 6, 7, 8, 8, 9. Per 646

No. 1048 10-line wires, 48 inches high, uprights 16½ ins. apart, spacing 3, 3, 3½, 4, 5, 6, 7, 8, 8½.

No. 10480 10-line wires, 48 ins. high, uprights 22 ins. apart, spacing 3, 3, 3½, 4, 5, 6, 7, 8, 8½. Per rod.....

MADE THROUGHOUT OF FULL GAUGE No. 9 EVENLY GALVANIZED HARD STEEL WIRE, CARRIED IN 20, 30 AND 40 ROD ROLLS.

No. 1054 10-line wires, 54 inches high, uprights 16½ ins. apart, spacing 3½, 3½, 4, 5, 6, 7, 8, 8, 9.

No. 10540 10-line wires, 54 ins. high, uprights 22 ins. apart, spacing 3½, 3½, 4, 5, 6, 7, 8, 8, 9. Per rod.

No. 1157 11-line wires, 57 inches high, uprights 16½ ins. apart, spacing 3, 3½, 3½, 4, 5, 6, 7, 8, 8, 9.

No. 11570 11-line wires, 57 ins. high, uprights 22 ins. apart, spacing 3, 3½, 3½, 4, 5, 6, 7, 8, 8, 9. Per rod.

No. 939 9-line wires, 39 inches high, uprights 16½ inches apart, spacing 3, 3, 3, 4, 5, 6, 7, 8. Per rod..

#### MEDIUM HEAVY

No. 7261 7-line wires, 26 inches high, uprights 8 inches

TOP AND BOTTOM WIRES No. 9; OTHER WIRES "IDEAL" FENCING TOP AND BOTTOM WIRES NO. 9; OTHER WIRES NO. 12; CARRIED IN 20, 30 AND 40 ROD ROLLS.

No. 9301 9-line wires, 30 inches apart, uprights 8 inches apart, spacing 3, 3, 3, 3, 3, 4, 5, 6. Per 506

#### TOP AND BOTTOM WIRES ARE MADE OF No. 9, ALL OTHER WIRES No. FENCING TOP AND BOTTOM WIRES ARE MADE OF No. 9, ALL OTHER WIRES NO. 13. MADE IN TWO STYLES ONLY. CARRIED IN 10 AND 20 ROD ROLLS.

#### Improved "Ideal" Stock Gates—Open Mesh

Made in the following sizes only: 12 feet long, 51 inches high, each... 6.2513 feet long, 51 inches high, eath 14 feet long, 51 inches high, each

#### Improved "Ideal" Farm Gates - Close Mesh

mproved	Ideal	rarm	Gates ·	- Close	ME
3 feet long,	48 inches hig	h, each			\$3.00
	ng, 48 inches				3.25
4 feet long,	48 inches hig	h, each			3.50
10 feet long,	48 inches hig	h, each			6.25
12 feet long,	48 inches hig	h, each			7.00
13 feet long,	48 inches hig	h, each			7.25
	48 inches hig				7.50
	48 inches hig				8.00

#### Supplies for "Ideal" Fence

Ideal Fence Stretcher, each Hand Stretcher for Single Wire, each Universal Post-Hole Digger, each Ideal Steel Fence Posts, 11/2 in. x 11/2 in. angle by 71/2 ft. long,

#### Brace Wire, Staples and Barb Wire

Galvanized Staples in 25-lb. Boxes	\$1.85
Galvanized Staples in 100-lb. Boxes	7.00
Galvanized Fence Hooks, per 100 lbs.	7.00
No. 12 Brace Wire, per 100 lbs	
No. 9 Brace Wire, per 25 lbs	
No. 9 Brace Wire, per 100 lbs	
No. 9 Coiled Spring Wire, per 100 lbs	
4 pt. 4" Galv. Cabled Barbed Wire, per 100 lbs. (about 95 rods).	6.75
4 pt. 6" Galv. Cabled Barbed Wire, per 80 rod spool.	5.50
2 pt. 5" Galv. Cabled Barbed Wire, per 80 rod spool.	5.25
"Ideal" Single Strand Barbed Wire, per 80 rod spool.	3.75

Buy Now and Save Money

The enormous demand for steel by the European countries leaves only a limited tonnage for home use—therefore prices are uncertain. We suggest your ordering now, while our stock lasts and prices are right. Remit by Bank Draft, Post Office Order or Express Money Order.

THE McGREGOR BANWELL FENCE CO., Limited, Walkerville, Ont.

# At what age do Farmers Retire?

A farmer retires when ill health compels him to do so, or when he has enough money to keep him for the rest of his days.

Farmers are much like other men. In the past they have spent freely as they have earned and old age has found most of them without the money upon which to retire.

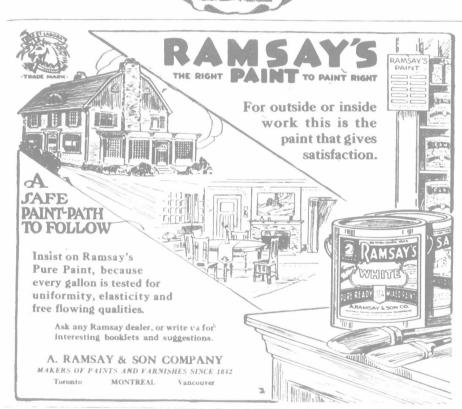
But the farmer of today—if he is wise—does not leave the matter of his independence in old age to chance. By investing a few dollars each year in an Endowment Insurance he builds up a fund to keep him in comfort when he is old, or to care for his family should death claim him early.

Write for a free copy of "Barlow Drops In" which tells all about it. Address:

## THE IMPERIAL LIFE Assurance Company of Canada

Assurance Company of Canada HEAD OFFICE - TORONTO

Branches and Agents in all important centres







#### For the Business Man on the Farm

The desk pictured above—the "Efficiency Desk" will do for you, in your record-keeping, what the automobile and the modern tractor have done in the field of actual farm development.

In it you can keep, indexed for instant reference, your Government reports, your market prices on produce for use in basing future prices, and your clippings from farm papers on interesting subjects.

Your accounts, taxbills, insurance papers—everything fits into it—and right at your fingers' ends. You've probably been looking for something like this before—a desk and a record-

keeping convenience combined. Here it is to suit your needs exactly—and at the price of a desk alone.

Take a pencil now and write a postal to our nearest branch for descriptive folder and price,

THE OFFICE SPECIALTY MFG. CO., LIMITED Home Office NEW MARKET Canada Filing Equipment Stores at:

Filing Equipment Stores at:
Toronto Montreal Ottawa Halifax Hamilton
Winnipeg Regina Edmonton Vancouver



# Palmer's Summer Packs



THE shoes for aching feet—light in weight, durable, roomy, comfortable and waterproof. Made from selected Skowhegan leather with water-proofed leather sole and heel and solid leather insoles. The ideal shoe for farmers or others working on the land.

Also specially suitable for woodsmen, trackmen, millmen, sportsmen, laborers — all who require strong, easy fitting footwear.

Get a pair of Palmer's "Moose Head Brand" footwear from your dealer. They will give you foot comfort and great wear.

JOHN PALMER CO., Limited Fredericton, N. B., Canada 31

# Two Bushels to One Next Season – Sure

Let's help Food Controller Hanna double the food production this year. If you do your part, you will DOUBLE YOUR PROFITS. Doing something for your country and for yourself at the same time is good patriotism and good business. "Double Your Crops," you may say, "is very good advice, but how is it to be done?" We answer, "by using the very highest grade of Fertilizer" such as our

the very highest grade of Fertilizer," such as our "Best-by-Test" Brands. Consult with us about your soil and your crops and we will help you decide what is best to do. Every pound of

our Fertilizer is guaranteed.
We have full supply of all kinds up to full strength of analysis. We give special rates where farmers club together and order in our load lots.

"Best-by-Test" FERTILIZERS

CANADIAN FERTILIZER CO., Limited

12 Market Chambers, Chatham, Ont.

MARCH 28



# All Classes are Liable Under the Dominion War Tax Act

Returns covering 1917 details must be filed on or before 31st March next

THE Income War Tax Act applies to every class of person residing or ordinarily resident in Canada.

Every unmarried person, or widow or widower without dependent children, whose income exceeded \$1,500 for the calendar year, 1917, and all other persons whose income exceeded \$3,000 for the same period, must fill in and file the necessary forms.

All persons engaged in farming of any kind, who are liable under the provisions of the Act, must get three copies of Form T-1 and answer in detail all questions asked. Special attention is called to the following points as well as to those specifically mentioned in the Form:

Gross Income Must Include all income from the sale of produce, stock, or other products whatsoever, as well as monies received from other sources, such as Dividends, Interest, etc., as provided in the Forms.

Personal and Living Expenses must not be deducted in determining gross income—the figures must include the value of all food and other necessities of his own production, consumed by the taxpayer or his family.

Depreciation.—In giving figures under Depreciation, particulars of the value of implements, machinery, and outbuildings on hand January 1st, 1917, upon which depreciation is claimed should be shown, but must not include any amount for dwelling occupied by the taxpayer.

The amount expended for labor in the preparation of land for crops and in the cultivation, harvesting, and marketing of the crop should be stated, as well as the cost of seed and fertilizer and the amount expended for labor in caring for live stock, cost of feed, repairs to farm buildings, but not cost of repairs to dwelling. The cost of small tools and material which is used up in the course of a year or two, such as binder twine, pitch forks, spades, etc., should be shown as these are deductable.

The cost of labor may include board of hired men, but no amount as wages for the taxpayer himself will be allowed.

Penalties.—Default in filing returns renders the person or persons liable on summary conviction to a penalty of one hundred dollars for each day during which the default continues. Any person making a false statement in any return or in any information required by the Minister of Finance shall be liable on summary conviction to a penalty not exceeding ten thousand dollars or to six months imprisonment, or to both fine and imprisonment.

Don't forget to fill in three copies of the Form. Keep one copy and file the other two with the Inspector of Taxation for your District.

Forms may be obtained from the District Inspectors of Taxation and from the Postmasters at all leading centres.

Postage must be paid on all letters and documents forwarded by mail to Inspector of Taxation

Department of Finance, Ottawa, Canada

#### INSPECTORS OF TAXATION.

For Ottawa and District — K. Fellowes, Cor. Bank St. & Laurier Ave., Ottawa, Ont.

For Kingston and District — G. A. Macdonald, Kingston, Ont.

For Toronto District — Hugh D. Paterson, 59 Victoria St., Toronto, Ont.

For Hamilton and District — Berkeley G. Lowe, Customs Building, Hamilton, Ont.

For London and District — George R. Tambling, London, Ont.

# Spring Wheat Spring Wheat Seed for Ontario

HE world demand for wheat in 1918 justifies the greatest possible effort towards increased production. The small acreages of Fall Wheat put in last fall will mean increased acreage in Ontario available for Spring Wheat. The Ontario Government is co-operating with the farmers in order to provide seed. It has purchased 50,000 bushels of No. 1 Marquis Spring Wheat Seed through the Seed Branch of the Federal Department of Agriculture. More will be purchased if necessary to fill needs.

**Distribution**—Seed is sold only in 2-bushel bags. Carloads will be placed at certain points in the Province where less than carload orders can be filled. Where Farmers' Clubs or other organizations buy in carload lots, the price at their local stations will be the same as at distributing points.

Where to buy—Purchases may be made either in the warehouse at the distributing points, or orders may be placed with the nearest District Representative of the Provincial Department of Agriculture, or they may be sent direct by mail to the Markets Branch, Department of Agriculture, Parliament Buildings, Toronto.

Payment in Cash—Price is \$2.74 per bushel at all local stations. In all cases, without exception, Cash must accompany order. Send remittance by check, postal note, post office or express money order made payable to Ontario Department of Agriculture, Markets Branch

Order Early—In the event of the requirements of the Province being under-estimated, there may not be enough seed to go around. It is advisable in order to insure having their orders filled that purchasers should place orders as soon as possible. All orders are subject to confirmation and will be filled in the order received. As seed is delivered in 2-bushel bags, order should be for even numbers of bushels, and no order for less than 2 bushels can be accepted.

Names of Distributors are: Alliston—L. Coffee & Company. Barrie—Brown & Company. Bolton—A. A. McFall. Brantford—Dominion Flour Mills. Chatham—The Canada Flour Mills Company, Limited. Durham—Rob Roy Cereal Mills Company. Guelph—Jas. Goldie & Company, Ltd. Hamilton—Wood Milling Company. Kemptville—Kemptville Milling Company. Lindsay—Spratt & Killen. Listowel—Hay Brothers. London—Hunt Bros. Ltd. NewMarket-W. H. Eves. Orangeville—E. C. Clark. Orillia—D. C. Thompson. Oshawa-Hogg & Lytle. Peterboro—The Campbell Flour Mills. Port Hope—H. Sculthorpe. Port Perry—Hogg & Lytle. St. Catharines—Maple Leaf Milling Company. St. Mary's—St. Mary's Milling Company. Simcoe—Norfolk Co-operative Association. Stouffville-Stiver Bros. Toronto West—The Campbell Flour Mills. Welland—Maple Leaf Milling Company. Woodbridge-W. D. Matthews & Company. Woodstock—James Cullen.

# Ontario Department of Agriculture

Markets Branch
Parliament Buildings, Toronto

Sir Wm. H. Hearst, Minister of Agriculture

Dr. G. C. Creelman, Commissioner of Agriculture



ONTARIO

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# The Farmer's Advocate and Home Magazine ESTABLISHED 1866

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT. OF 1875

LIII.

LONDON, ONTARIO, MARCH 28, 1918.

1331

#### EDITORIAL.

Keep the sheep and kill the dogs.

Breed the work mares this year and work the brood mares

The nation can keep up its spirits without pouring so much down its neck.

The German defensive war grows rather aggressive on the Eastern front.

The better prepared you are for spring, the less you will feel the labor shortage.

The farms of Canada are looked to in 1918 for the biggest ields they have ever given.

The Railways got what they went after. They generally do for they are strong lobbyists.

The war must be won now or our children will have to take up the fight for liberty later on.

Get the best help you can; use it the best you can, and if you can't do any better help yourself.

When the knolls in the country whiten and the land pulls up loamy and friable, be ready for the field.

Tractors are here to stay and are a big help, but on the farm the horse will still be relied on for the draft

If Russia does not soon awaken there will be some re-formed spelling of the word with a capital P and a

The man who put in high-priced steers last fall to feed through the winter doesn't see any big profits at present beef prices.

The feed question is still unsolved. Everyone hopes that a favorable crop year will put an end to some of the difficulties now experienced.

At the time of writing "sap's running" and doubtless by the time this reaches our readers some of them will be "boiling down," or "sugaring off."

Many complaints have come to hand that millers in Western Ontario have been overcharging for millfeeds. The set price should be lived up to. Laws not enforced are worse than useless.

The Newark News says that the most courageous slacker was the fellow who married his mother-in-law to evade military service. Most men would rather be officered by the military than the militants.

Seed corn is said to have sold at from \$30 to \$50 per bushel at an auction sale in Essex Co. the other day. Good seed pays. This was guaranteed to germinate 98 per cent. The cost of filling the silo is going

#### Beef Prices.

At the present time there does not appear to be any chance that prices for live cattle will advance very materially this spring. Those who put cattle in to feed last fall at prices around ten cents per pound run a small chance of making any great profit this year, and the man who eats the expensive cuts of beef from city tables is far from justified in calling the cattle feeder a profiteer. Figured any way you like, with feeds as high in price and as hard to get as they have been during the past few months, the margin between the purchasing price of the cattle last fall and the selling price this spring is bound to leave little more than the manure for the work of the field. Of course, there will be special cases where a small margin of profit will be made, but the great bulk of the cattle which will go on the market during the spring months, unless prices advance which does not seem likely, will net the feeders very little for their efforts. In this there is a danger that fewer cattle may be fed next fall and winter than has been the case during the winter of 1917-18. The producer will not continue any line of production which does not leave him at least a living profit, and any attempts to beat down prices only have a tendency to discourage production. It is true that eleven or twelve cents per pound live weight is a big price for finished beef, but it is also true that the cost of producing this meat has advanced so rapidly that there is less profit for the feeder in a great many cases than accrued from the cattle-feeding business when the finished product sold at about half the price.

#### Uses for Spring Wheat.

This spring there will be more spring wheat sown in Eastern Canada than has been the case in any single season for some years, and circumstances ju tify this departure from the general cropping system. Wheat is needed to support the Allied cause. A question has been raised as to whether or not it would be advisable to plan to sow spring wheat in with fall wheat on such fields as may show considerable winter killing. Provided the fall wheat is not of a too early ripening variety, and the spring wheat used is fairly early in maturity, sowing spring wheat crosswise of the drills of fall wheat might give very good results. Another important point to remember in this spring's cropping is that there is some likelihood of there being an order passed before next fall prohibiting the use of marketable wheat for feed. Keeping this in mind and knowing that peas are hard to get for seed this spring and that husking corn seed is practically out of the question, it might be well to mix a fair proportion of wheat with oats or with oats nd barley in the seeding this spring, in order to have some heavier feed for pigs, fattening cattle, and cows on test next winter. A peck to one half bushel of spring wheat to the acre mixed with oats and possibly a little barley would ensure some heavier feed. It would be well to consider the time of ripening in arranging the mixture. Spring wheat should ripen fairly well with Banner, or O. A. C. 72 oats.

#### Titles.

It has been reported that some hold-up has taken place in the putting through of titles for Canadians. We believe that the list has not been sent to the Imperial authorities. Most Canadians, democratic in spirit, believe that we already have enough titles in Canada. possibly too many. Titles can never be anything else but a menace to democracy. They promote class distinction. They tend to set apart those who are fortunate, or unfortunate, enough to have them bestowed upon them. They are not in the interests of the public welfare, and are a relic of fuedalism. Hereditary titles should from now on hav no place in Canada.

#### Municipal Garbage-fed Piggeries.

Some steps have been taken to induce urban dwellers to "keep a pig" as the slogan reads, but a number of cities are adopting the wiser and more feasible plan of establishing municipal garbage-disposal piggeries. The garbage from one home will not go v ry far in maintaining a healthy, growing pig, so the greater part of the ration will necessarily have to be purchased in the form of grain. Those people who would keep a pig around their dwellings at all are the class who do not throw much valuable food into the garbage pail, hence grain will have to constitute the bulk of the pig's ration. But grain or millfeed is the controlling factor in hog production right now, and nothing could be gained by diverting the inadequate supply from one channel into another. More than that, under farm conditions there are usually by-products of the dairy and kitchen, roots, soiling crops and pasture, which decrease very much the grain required to produce one hundred pounds of gain. On the other hand, the urban dweller, usually inexperienced in hog feeding, must purchase practically all the feed required to develop and finish his pig at the highest market price. His grain comes dear, and he has next to nothing which will act as a substitute to conserve feed and cheapen production. If there were plenty of grain and few already engaged in swine production, the situation would be vastly different, but as it is nothing can be gained by drawing on the nowlimited supply of feed in order that it may be fed by inexperienced hands under altogether unfavorable conditions. The feeding of domestic garbage by untutored people is also a great source of danger to the industry for disease is sure to result and control would be difficult. The most valuable garbage comes from the homes of wealthy people, hotels, clubs, restaurants, etc., and the poorest kind is found in the garbage pail of the ordinary, thrifty wage earner. The latter class of people would be the only kind so situated as to look favorably on the back-yard pig sty and with little or no table offal to be disposed of, grain or millfeed would be resorted to.

The city of Worcester, Mass., has operated a municipal garbage disposal piggery for forty years, and their scheme, which is discussed elsewhere in this issue, is considered the most successful and efficient on the Ameriontinent to-day. True, some grain is fed there, but it is dispensed by trained, practical feeders who so manage the plant that garbage is the main ration and grain or millfeeds a secondary consideration. If those interested in production would assist the cities in utilizing a valuable product which is usually incinerated, and show them how it might be converted into a kind of food for which the whole world is clamoring to-day, some good would surely result.

#### Real Breeding Classes.

The Farmer's Advocate has pointed out in times past the mistake of over-loading mature breeding stock with fat for the show-ring. Repeated extra fitting undoubtedly injures individuals as breeders, and as it is the best individuals of the respective breeds that go into the show-ring, eventually considerable injury is likely to be done the breed as a whole. Of course, there is no compulsion to highly fit for the show-ring, but the judge is called upon to place the animals according to their condition on the day upon which he is judging them. This being true, and fat covering a multitude of defects, the animal most superbly fitted generally heads the line. In some cases doubts have arisen in the minds of the spectators regarding mature females in high fit. Many will say they are non-breeders, and too often in the past such over-fitted animals have proven of little value as breeders. In the West, one Exhibition Board, at least, has seen fit to revise the prizelist so that only breeding females shown in breeding condition are eligible. It has been made necessary to show the females in mature classes with offspring at

AND HOME MAGAZINE. THE LEADING AGRICULTURM, JOURNAL IN THE DOMINION.

> Published weekly by THE WILLIAM WELD COMPANY (1 imited).

> > JOHN WELD, Manager.

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foot. This should give encouragement to those breeders who endeavor to keep their best females in breeding condition and to "show their work cows and work their show cows." The idea of making the mature female classes in the beef-cattle section, real breeding classes should be carefully considered by fair boards in the hast,

#### \*Give the Help a Chance.

BY ALLAN MODIALMID.

That is an interesting experience of L. D. G's as got our money on the same horse just me a he gives it to us in the M iich 7th issue of "The Farmer's Advocate". And he tells it well. He belongs to the class of writers that have something to say, not to these who have to say something. As the publisher said, when he was looking over Harriet Beecher Stowe's second book,"
"When she wrote 'Uncle Tom's Calain' ale had a book to write but when she wrote this one she had to write to write but when she wrote this one she men to write a book." I. D. G. writes from a full heart and a first-hand knowledge and from what he sixs it books as though he delict a gut any further experience along the same line. The's had crough and it city help is all that is to be first heavy having took by it probably my that is to be not next may be seen on a premary my and worry along along and says what he can out of the wreck. He doesn't feel like any left har the old appeared would be tarm hands at the inpact season of the year and have then. It is the what

New there is too defising the fact that a consequent of us an included to take party and it to be a till as I be to do so this mater. It is a more than Biblewhasaid, Canary good than the strain of New 16: Gera the city a sit of purch as a sit when a son to attraction to putting near you work, or the risk had object.

2 1 10 00 1. 700 . . . . van Process die vie auch vertreigt vielente i Mart, vollage Vertreige de von Araffant, mogene Mogene fand in von Van Van Mogene Mogene Martine and ar sated to the place as well The world be off the way in before we were

 $\{v^{(i)}\}$  is let  $\{u_i\}$  rolling the bunches on in a

way that would have me half buried I before could get the reins tied up and start building my load. After a couple of days of this his hand began to blister where the weight of the fork-handle came on it. It didn't give him any notion of easing up on the work however. He rolled his pocket-handkerchief up and putting it over the blister he let the fork-handle rest on that and went

on pitching hay as usual.

I began to think after a few days of this that the prospects for business were good, so I kept the team on the mower going pretty steadily and with the help of good weather, at the end of two weeks, the whole crop was in the barn. The sun was hot enough some days to knock out a "nigger", but my man was so busy getting that hay in that he didn't seem to notice it. I believe it is a fact that a person who is working hard and sweating does not find the heat so hard to stand as one who is doing nothing but trying to find a cool spot to lie down in. But that aside, I want to say that that man of mine gave me a feeling of respect for city folks that perhaps I didn't have, to the same degree, previous to my experience with him. I know that they vary in quality there, as do the people in the country, but I also know that there must be some first-class men there, because I had one of them. I have an idea that if the right stuff is in a person one or two generations of city life isn't going to take it all out of them. But we can't expect to take a man or boy straight from the factory or office and put them right into the hardest kind of physical work without any gradual hardening or training of some kind. When our soldiers are taken from the occupations they have been accustomed to they are given months of this training before they are expected to be fit for regular service. So it seems no more than fair that we make some allowance for those who we may have to help us with our work and who are "not to the manner born." They simply can't stand the heat and the long hours, neither of which they have been ac ustomed to, in I they have to either give up or take i chance on getting knocked out entirely, which has happened before new. I heard of a case of this kind just last summer. A college professor's sen who was taking a University course got the idea that he could make a little money and at the same time build up his health by spending his helidays in the employ of some farmer. Accordingly he went to the country and pitched right in to the regular farm work. Whether he had to work any harder than the ordinary tarm hand I cannot say but the result was that a few weeks later he was dead. the effect of sunstreke. Another case I heard of was where the farmer put the high-school girl that had conce to help him, to cleaning out box-stalls. She had made up her mind not to give up no matter what she was called on to do but all day at this work "took the conceit" out of her and she had to quit.

To a considerable extent it depends on the farget himself whether his labor problem will be solved ber him or not. If we treated our hired help with some consideration and gave them a circuity to make good, there might not be so many dismal experiences to 1813. both by farmers and their would be help. Tiase venue people from the schools and others from the cities come to us with the idea of being of service and of simore than just a few days. They have addition I mest of the rest of us and it's out drives well as to our interest to see that they are not morthest; do conraged and sent back to their letter we that give a bad impression, and profession pression, of farmers as a class. It's case. reputation than to live down a boltone we'll feel better it we keep on good to neighbors, even it they do live in the

#### Nature's Diary.

A. B. KLUGH, M.

Canada From Ocean to Ocean XIII Another characteristic animal of the Re-Mountain Coat. This species is really not at all, but an antelope, and more closely alls chamois of the Alps than to any other form.

The Mountain Goat is about four feet in stands three leet at the shoulder. Its cont long, hanging white hair, with a short woodly is of a vellowish white. The horns are slender wises, curve slightly backward and are black in are also the hoots.

The ligher, almost inaccessible slopes of the ams above the timber-line are the stronghold Here it feeds upon the moss which great Ha Mountain Goat is an expert climber and

the ack one footed, making its way up sharp in h her teliag from crag to crag, and travelling along not has that langing the most awe inspiring precious the second train also take a vertical downward in 20 act without injury. Writing of the Money breder bland sixs: "We had nearly bediadaigt man bone or two up the market North Variou and high above the deet past in the best to prount in tops had sent the bests to The Cours were not very far hor. is about it was a long way round. They "that on a themmatic callop, but orts the sellect. We picked our way over to Just vis that snow chough to show e tel don, the most tental precipies 2 . The r we came to a great chimney of conductinging with fingers and moccasins \*\* storm! the face of it. When I came out I and I had the Goats in a sort of natural

trap, and they were all bunched up against a rock which I thought could not be passed. The big billy, however, made a desperate attempt at the face of the rock, scrambling up at an obtuse angle, then standing on his hind legs, and throwing his legs over, from right to left. I thought he would surely fall fack, but he did not. The smaller Goats followed and in a moment they were gone.

Since there are no beasts of prey which live above the haunts of the Mountain Goat this species has the idea firmly engrained that all danger must come from below. Speaking of this peculiarity Wister says:"Thereis no use attempting to hunt them from below. Their eyes are watchful and keen, and the chances are that if you are working up from below and see a goat on the hill, he will have been looking at you for some time. Once he is alarmed, ten minutes is enough for him to put a good many hours of climbing between himself and you. His favorite trick is to stand stock still, watching until you pass out of sight behind something, and then he makes off so energetically that when you see him next he is on some totally different mountain. But his intelligence does not seem to grasp more than the danger from below. While he is steadtastly on the alert against this, it apparently does not occur to him that anything can come down on him. Consequently from above you may get very near before you are noticed.

The Rocky Mountain Sheep, which is also frequently termed the Bighorn, is four and a half feet in length and stands three and a quarter feet at the shoulder. The general color is grayish-brown, darkest on the back. In the females the horns are short, but in the males they are very massive, curving backward and outward, and in the old rams they make a complete spiral circle.

The haunts of this species are on the high mountains, above the timberline, where there is frequently a luxuriant growth of grass. Unlike the Mountain Goats, which remain in these elevated regions throughout the year, the Sheep descend into the valleys in the winter.

This species is just as expert a mountaineer as the Mountain Goat. The rams contest for the ewes, each gathering as large a harem as he can protect from his rivals, that is, anywhere from three to twelve. These tamilies keep together until spring, when the rams separate from the ewes. In May or June the ewes have one or two lambs. In the summer the ewes and their lambs and the yearlings and young rams are found in flocks, and the old rams in little bands by themselves.

The Hoary Marmot which looks like a large, rather gravish Groundhog, is a common animal among the loose rocks of the rock-slides, and its penetrating, somewhat nasil, whistle is a characteristic sound of the

The Dipp r is remarkable on account of the fact that although a land bird it frequently flies under water. It is always found about rapid streams and lives on aquatic organisms which it finds in them. The song of this species is loud and clear and somewhat resembles the o tar cathird. The Dipper makes a large nest of steen mess, fined with grass, in the shape of a globe, with an entrance at one side. This nest is always placed these to a stream and is frequently on a ledge of rock utoler a waterfall

To be continued.)

#### THE HORSE.

#### Veterinary Prescriptions For Farm Use.—III

Blisters.

are arrivent applications, used for the purpose it is known as counter-irritation, the a more or less marked effect upon a = deep scated; or they may be applied decreased atting the action of the absorbthe reduce enlargements of different wes it was thought that two inexist at the same time; hence, 🐃 a of an internal organ, for I the lungs, it was claimed that kin covering the lung cavity d inflammation must of neces-The name "counter-irritation. now practiced with the idea alis, but the theory of action vessels of inflamed areas are d artificial inflammation be the skin become engorged and duce the engorgement of the ais; hence, reduce inflammad a blister probably depend ed its application as apon the taply applied to the surface the effects are alight, but well rubbed in they are in the form of a paste or paste of the ordin des or HUND, OF CARR of the per a combinar mixed used, they of the of the streng lesired, so the action - more. d. six, eight. on or counter in ers gond res 4.

> 2 drams. 2 drams 2 ounces

This, of cou be made stron application she some arrangem the part. The patient be at I thereby get son or he may bite blistered parts at a time with until filteen to been spent in hours a little 1 and in almost t lard, or other a The patient's he be provided wit The blistered I scale becomes in ten days to blister can be ap ing is required weeks. While to fall out, it de reasonable atte there is no do devoid of hair. nitric acid, sulp etc., which have action and it us ing applications and leave a perthis nature are many of the pro as a "Sure Cur the bones, mus-where a paste 1 patient a rest for the rest for at inflammatory a necessary to co during and inm blister, a liquic avoids the news reach the parts v none of the irrit. cannot irritate ordinary liquid l as the paste blist and usually requ marked skin irr blisters prescribe to some of the as the different produce mere paste blister 1 Sweat Blister they usually . to a sweating a Two dragas mercury maxes liquid blister

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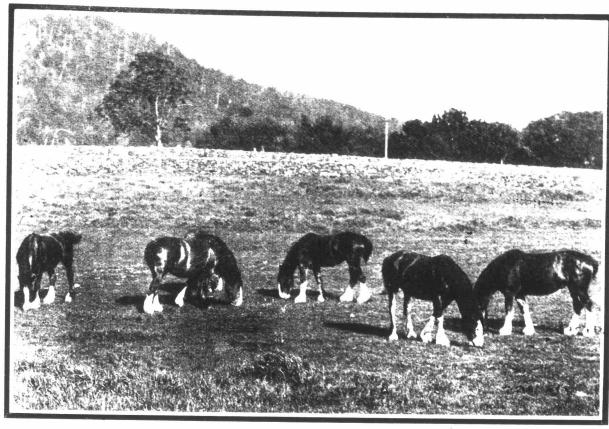
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This, of course, is one to four, and the mixture may be made stronger or weaker as desired. The seat of application should be clipped, and the animal tied, or some arrangement made to prevent him biting or licking the part. The blister causes an irritation, and if the patient be at liberty he will lick or bite the parts, and thereby get some of the blister on his lips and tongue, or he may bite sufficiently hard to scarify the skin of the blistered parts. The blister should be applied a little at a time with smart friction, then a little more, etc., until fifteen to twenty minutes of smart rubbing have been spent in the application. In about twenty-four hours a little mere of the blister should be rubbed in, and in about twenty-four hours longer sacet oil, clean lard, or other non-irritant lubricant, should be applied. The patient's head should now be let down, and if he can be provided with a comfortable box-stall, it is advisable The blistered parts should be oiled every day until the scale becomes locke and is removed, which is generally in ten days to two weeks, when, if necessary, another blister can be applied as at first and when further blistering is required it should be done in about every four weeks. While blistering in this manner causes the hair to fall out, it does not destroy the hair follicles, provide reasonable attention to directions be observed; hence, there is no danger of causing an area permanently devoid of hair. There are certain ingredients, such as nitric acid, sulphuric acid, arsenic, corrosive sublimate, etc., which have well-marked blistering and corrosive action and it used, except in small quantities, in blistering applications, will surely destroy the hair follicles and leave a permanent scar, or bare spot. Blemishes of this nature are often noticed after the application of many of the proprietary medicines which are advertised as a "Sure Cure" for nearly all the diseases to which the bones, mustles, tendons, etc., are liable. In cases where a paste blister is used it is necessary to give the patient a rest for at least two days, and wise to continue the rest for at least a few days longer until the acute inflammatory action is allayed. In cases where it is necessary to continue the work or drive the patient during and immediately following the application of a blister, a liquid preparation is generally used. This avoids the necessity of tying the patient so that he cannot reach the parts with his mouth, as there being practically none of the irritant on the hair, or surface of the skin, he cannot irritate his lips, etc., with it. Then again, the ordinary liquid blister is not usually of as great strength as the paste blister, it does not cause so acute an irritation and usually requires repeated application to cause well marked skin irritation. We, of course, refer to liquid blisters prescribed by those versed in such matters, not to some of the proprietary medicines advertised, such as the different "Caustic Balsams", etc., which quickly produce more marked superficial irritation than a safe paste blister. Liquid blisters are often referred to as Sweat Blisters, from the supposition that the exudate they usually cause and the results that follow, are due io a sweating of the parts.

Two draws of either cantharides or biniodide of mercury may with four ounces alcohol, make a good on course the mixture can be made cither weaker a stronger by using less or more of the drug, in propaten to the quantity of alcohol. The usual method of preparations of this kind is to apply a little wi It friction once daily, until the parts I, then applying oil daily until they he come for become sin in; then applying the blister again, ds at first i. The application of a blister in any form, with the ide uring some bone disease, as bone spayin, ringhome. not, is from the assumption that the ounter in i caused by the blister increases the deep-scale mation and hastens its course to



Clydesdale Brood Mares at Pasture.

joint usually destroys the articular cartilages which clothe the surfaces of the bones that contact each other after which the bones become united, as one bone, by bony union. This is called *anchylosis*, and when it is completed inflammation and pain cease. Counter-irritation, such as blistering, or firing and blistering hastens this process, and if the bones involved are not those in which the normal motion is considerable, lameness will disappear and whether or not a more or less marked stiffness will remain, depends upon the extent of said motion.

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#### The Feminine Character in Brood Mares.

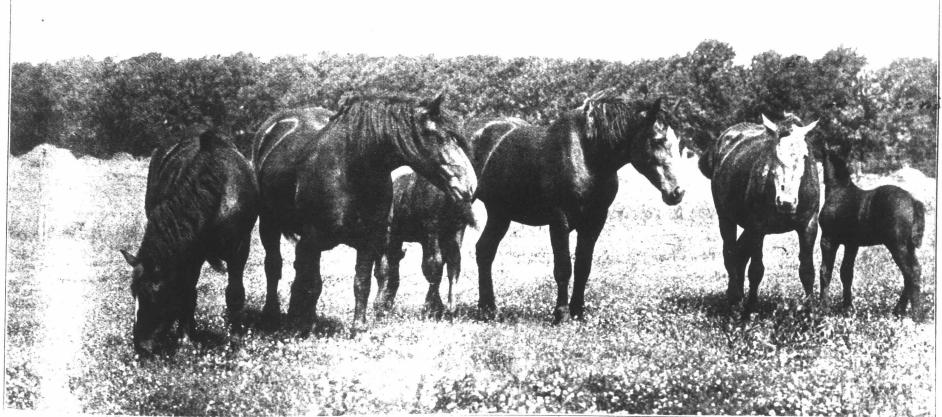
The good brood mare is a treasure to her owner. She asks for little but good tood, liberty and kindness. Differing from the male of her species whose function is to dominate and procreate by an ever ready aggressive and at times spasmodic energy, she produces continuously and is shy and timid, because continually vulnerable through her maternity. Therefore, a watchfulness for herself and her progeny are ever part of the quiet and constant activities of her life.

Such feminine exercises are instinctive, and that they may become characteristic will depend somewhat upon the way we treat her. It is impossible for us to kill in the mare this instinctive predisposition of sex, but we may by mismanagement prevent it from becoming habitual and characteristic. The acknowledgement of those instinctive qualities of the female will help us to

teminine character which shows itself in the disposition and build of a good broad mare is accepted by breeders as denoting her value as a matron.

We will find feminine character outstanding in the head, neck, loins and body, and to a less extent, in the female's general condition. In the appearance of the head we will especially find the mare's predisposition towards feminine function, in her body the ability to wards its performance. The eye will be fairly large and set out prominently, giving a wide range of vision, which encompasses the following foal-without effort. Its expression in repose will be quietly contemplative, kindly and unselfish in its depths, differing from the eye of the stallion, which is focussed by sell interest and glowing with the fires of aggression. This expression of the mare's eye will be verified by her passive appreciation of kindness and fondling, differing from the stallion in whom a restless reciprocation denotes the vigor of his kind. There will be no sulkiness or dullness in the expression of her eye or the carriage of her head, nor the opposite ready excitability or overactivity. The eats will appear from the front to be set high on her head because the soft submissive line of her neck is straight from the head to the shoulder, differing from the ears of the stallion, the hard aggressive line of whose crest rises above them. The mare's lons will be strong to carry the body's load, the ribs will be wide and long to hold the organs of digestion, the coupling rooms and the flanks

The management of the brood mare should be directed by considerations of her feminimity. Her instincts of liberty and self-reliance should be gratified by an approach to matural conditions. Her diet should not be too strongly by the exercise should be mare all.



Illustrating the Ferninine Character in Brood Mares.

In her years of matronly maturity her feminine character becomes evident to every observer. In the field she moves more quietly, coming towards us in an attitude of meckness, yet confidence and self-respect. Never like the stallian, who comes shaking his high crest in invitation to playful battle. But it is not so in her youth, because sex has not then so set its mark upon her. As a feal she gambels in equal terms with the colts, full of suddenly overflowing activity, and perhaps evident sex character as developed later should not be considered desirable at an early age, because the passiveness and meckness which become—characteristic of the regular exercise of the maternal function may mean in the filly a lack of constitutional vigor, which will cause her to fail later as a broad mare.

The robi st filly as she grows elder will, more than the colt, she wa dispesition towards quietness of mind and fleshiness of body, which while admirable and prophetic of future usefulness, should not be encouraged to the point of sluggishness. Her environment should present an enticement to fairly constant activity in the search for and choice of food, and when such is the case this proof of a superabundant power of sestaining horself will mark her as the coming mother of well-neurished foals when with this quietly active dispesition and normally fleshy condition, the filly shows a kindly eye, alert understanding ears, a long, straight and fine topped nock, a wide le in, deep ribs and re emy compling, a soft skin and silky hair, she bids fair to become the mether of generations that like herself will be the mest a seful and beautiful creatures on our farms, beautifying our lives by their presence and enriching us by their teil.—T. L. Nebel,

#### LIVE STOCK.

The recently organized Canadian Co-operative Wool Growers Ltd. is one of the big-things accomplished in the co-operative world, and deserves the support of sheep raisers. Its field is Dominion-wide.

It only requires a short time to deck the lambs and castrate the males among them. Ram lambs harass the fleck in the autumn and—have to be separated at considerable expense of time and convenience.

It has been demonstrated at the spring sales that the use of the curry-comb and brush, and perhaps a blanket, for a few days previous to the sale, means additional dollars in the public appraisal of the animals offered.

The season will soon be here when the largest proportion of the spring pig litters will be born. Allow the in-pig sow plenty of exercise and access to the soil. This treatment will correct many constitutional disorders common in sows after such a winter as that just coming to an end.

There can never be any appreciable progress so long as scrub sires are used. Consider this well and make plans to breed this spring to the best pure-bred sire available. A lifetime of breeding scrub live stock will not be a pleasant past to look back upon, and if a change is intended, do it now.

The present feed situation suggests that purchases be made this summer. It has become quite as necessary to buy feed as coal in the summer time for the next winter's use. The by-products of the mills are in excess of demand during summer months, but in winter the reverse is true. The course to pursue is obvious.

It is reported that Hon. G. W. Brown, formerly Lieutenant-Governor of Saskatchewan, has purchased the Senator Edwards Shorthorn herd, of Rockland, Ont. There are twenty-seven head in the herd, and these are being shipped to Mr. Brown's farm at Riccton, Sask. "Joe" Barnet is to have charge of the farm.

A breeder of pure-bred cattle, in a modest way, who dispersed his herd this spring wrote "The Farmer's Advocate" that he started with a few common cows but always used tair sires. At his auction sale held a few weeks ago the live stock, implements, and equipment realized \$14,000. The average good tarm sale usually brings around \$5,000, in these times, so the pure-bred herd meant something to this breeder. More than that, his annual revenue from it was specific to what one might expect from an ordinary herd.

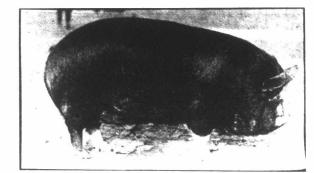
#### Short Ribs for the Feeder.

EDITOR "THE FARMER'S ADVOCATE

The discouraging condition of the Teronda cattle market is causing serious disquietude around function teeders. Indiging from what one garbers also to be stock yards and from the directors received her equal drovers, "The Bears' seem to be active to the regard with a vengentee as far as the mark for the director what is getting on as the series corned. The drift of what is getting on as the series corned. The drift of what is getting on as the series corned. The drift of what is getting on as the series corned and up deliveries adveloping a big grass output makes its appearance, which is the precipitate panishes its appearance, which is the series because of the abnormal cost of stall his sixtless. Days' is cited as an excluse but in few retailer started that his trade was going on a beginning as usual, except probably that consumers were great over the cost of their cuts but they had loads of one as the other the cost of their cuts but they had loads of one as the staff on the headres. This does not help the man who ministers the staff on the head who at the same time contemplates

big operators paying \$19 per hundred for live hogs, while cattle ranged at \$11 and \$12—an extraordinary soread, cost of production and food product values considered. The new government regulation limiting packing house profits at not over two per cent, on their gross annual sales nor more than eleven per cent, on actual capital investment, will hardly relieve the cattle feeder when he counts up the cost of filling his stalls last fall and the fabulous price of feed. At the end he finds himself squeezed in some kind of a deadly ring. About all that is going to be visible to him for his year's toil is a costly pile of manure which is a long, long remove from the 80 per cent, dividends of Sir Bakem Spareribs. What is left to the beef feeder to live on will be a bit of short rib skinned to the bone and the marrow extracted. The net outcome will react upon the country's supplies of beef and against cattle feeding before another season with killing effect. There are limits to the endarance of the farmer and a word of warning to the wise should be sufficient. For marketable cattle what is now due is a substantial advance in prices.

Middlesex Co., Ont. ALPHY.



Champion Barrow at the International.

A Berkshire, bred and shown by Hood Farm, Lowell, Mass

A Derksime, fred and shown by 11000 Paring Lower, Mass

#### New Professor of Animal Husbandry for O. A. C.

BY W. H. P.

Live stock men throughout Ontario will be pleased to learn that Wade Toole, Managing Editor of The Farmer's Advocate, has been appointed to succeed Prof. G. E. Day as head of the Live Stock Husbandry Department, at the Ontario Agricultural College. Prof. Day's engagement with the Dominion Shorthorn Breeders' Association necessitated the appointment of a new Chief for the Department, and President Creelman is to be congratulated on the choice he has made. Mr. Toole's early training and career have fitted him admirably for the work which lies before him at Guelph, and his good judgment as well as the broad and optimistic view which he entertains in regard to the live stock industry are guarantees of his future success.

The new Professor of Live Stock Husbandry at the O.A.C. was born on a 150-acre farm, in Ontario County, Ontario, on March 3, 1886. There a useful herd of 20 to 25 Shorthorns was maintained in his vounger days, two or three good Clydes lale mares were numbered amongst the farm horses kept, some steers were fattened. and Yorkshire hogs were bred, but only for pork purposes A flock of pure-bred Shropshire sheep was taken in hand by Mr. Toole when yet a mere lad, and the returns from this venture were used to defray the expenses of a college course. The Short Course in stock and seel judging at the O. A. C. was attended in January, 1907, and the regular course was entered in the fall of the same year. At the end of the second college year, Mr. Toole headed a large class for the two years' work and received the general proficiency medal. He was a member of the  $\Omega$ C. Stock Judging Team at the Chicago International pa 1910. After graduating in the spring of 1911, Ma Toole joined the stuff of "The Farmer's Advances. Live Stock Editor, and since October 1913 has a rate free the Managing Editor's chair. His early training on the home farm, in the heart of that great live-stock district in South Ontario, awakened a very strong liking for the industry with which he has become so closely as a rived. and during Mr. Toole's seven years' engagere on with The barmer's Advocate" he has enjoy, to the parpertunities for travel and to become acq. the live stock industry from every angle [1] exact assect with the herds and the issue to in terms, and his class connection with Provide a distributed eye and some infinitely types and Animal Husbandry, will be a like Management and Laher. to mer's Alvocate recret the less to set in, but the College and a contained are of the Proximer is su 1. standry. The best wishes of "The landing Prof. Toole to his next Max first, and we bespeak for h interested in live stock.

#### Steer Feeding for War Time Markets.

EDITOR "THE FARMER'S ADVOCATE":

At the present time with the high prices and scarcity of all concentrated feeds, steers should not be highly fitted for market. The present crisis calls for an exceptional output of all food products, especially meat, and every effort should be made to raise as many cattle as possible, and to feel them largely on foods, which cannot be used for human consumption, or are not especially adapted to some other equally important class of live stock such as pigs. For these reasons, therefore, the following experiment was planned and carried out at Macdonald College during the past winter. Keeping in mind the necessity of rapid growth and cheap gains, and the advisability of a ration which did not involve more labor than necessary either in the process of growing or feeding the crop, corn silage was chosen as the basic feed in the experiment, the idea being to test to what degree corn silage could be utilized in a ration, with clover hay, to replace expensive concentrates. Corn is a heavy yielding crop; it can be grown comparatively cheaply without an excess of labor; it can be grown to advantage in many rotations; it is easily stored and can be fed conveniently with no waste products; it has a high feeding value and is relished by the stock fed.

A great deal of experimental work has been done in the past, at various experimental stations and agricultural colleges, in regard to feeding corn silige to various classes of live stock. Most of these experiments have, however, been planned with the idea of replacing other roughage rather than concentrates in the various rations. Some experiments have been conducted with the different kinds of roughage as the sole ration, but only for the purpose of wintering young stock and not preparing them for market.

An experiment was carried on at Macdonald College in which some Quebec and some Western steers were fed. They were divided into three lots each and fed similar rations respectively, thus duplicating the experiment. The rations were made up of (1) corn silage, (2) clover hay, (3) a meal mixture, consisting of equal parts of oat feed and dried distillers' grains. were not chosen on account of their individual qualifications but rather because they were available and would serve as a representative meal mixture. The quantity of hay was constant in all the rations. first lot, in each case, received a large allowance of silage and no meal, the second lot somewhat less silage aud a small allowance of meal, while the third lot received still less silage and a large quantity of meal. The rations were fed for nine weeks, the quantities being slightly increased at the end of each three weeks.

#### Average Weight per Steer.

Feeding period 9 weeks.

	Initial Weight	Final Weight	Total gain	Gain per day
QUEBEC STEERS Lot 1. No meal. Lot 2. 4 lbs. meal. Lot 3. 6 lbs. meal.	876 873 915	946 1004 1032	70.7 131.7 117.3	2.09
Western Steers Lot 4. No meal. Lot 5. 4 lbs. meal. Lot 6. 6 lbs. meal.	SS3 909 SS4	1003 1055 1022	120.0 145.7 138.5	1

Note. The quantity of meal above is the average daily ration for the three periods.

All the steers showed a remarkable thriftiness and were in very good condition during the entire period. They were not highly finished, but were in good shape for the present requirements of the market at the end of the trial. As may be seen from the above table, the three lots of Western steers made both cheaper and larger gains respectively. In the Western steers those fed no meal made the cheapest gains, while in the Quebec steers those fed a small quantity of meal and a large allowance of silage made the most economical gains. In both cases these which received a liberal allowance of silage with some meal made the greatest gains, and these ted a small amount of silage and a large quantity of meal made good gains but at too high a cost. The results of these experiments, therefore, show that:

A Steers can be profitably fed and fairly well fattered on a ration consisting wholly of corn silage and he consisting wholly of corn silage

where concentrates are added in moderate spin states are recommically.

Alternationary meal ration with a small roughage through a small state will make good gains but with the concentration of feed the practice is not seen as the reconomical.

C. E. B.

active of many dairymen's success as bought their first really highmat the head of their head. The the time, but it turned out to be a many. There is an opportunity to be a localers at some of the ales of dairy. Don't allow the other fellow to get MARCH 28

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Swine fee Experimenta cover the qu ward as to with the dry pastures for during prev as in 1917, were used in of grain und secured fron results repres practical feed rect his feedi for the more capacity of t in reserve a made or to v upon whether their pasture hand were pa Three gre

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#### Swine Feeding Experiments at Lacombe.

BY G. H. HUTTON.

Swine feeding experiments carried on at Lacombe Experimental Farm, Alberta, in 1917, were intended to cover the questions which are being insistently put ferward as to the actual value of pasture as compared with the dry-feed lot and the relative value of different pastures for hogs. Similar work had been under way during previous seasons, but not on so large a scale as in 1917, when from five to over seventy animals were used in single phases of the work. Figures as to cests of grain under different systems of feeding have been secured from car lot groups. It is felt that since the results represent average farm conditions as to numlers of hogs included, they form a basis upon which the practical feeder may safely construct his plans and direct his feeding operations. The work in 1917 provided for the more definite determination of the acre carrying capacity of the various pastures under test by holding in reserve a group of hogs from which drafts could be made or to which withdrawals could be sent, depending upon whether any group of hogs were not holding down their pastures to proper proportions or on the other hand were pasturing their area too closely

Three groups of hogs were fed inside the same grain ration as these on the various pastures, and the comparison of cost of gains in these grounds with these enpasture is striking.

The following were the pastures used in the 1917 pasture experiments: Alfalfa, dwarf Essex rape, duplex rape, thousand-headed kale and sweet clover. Comparisons were made between the cost of making a pound of pork gain on the self-feeder on rape pasture as against feeding a three per cent. grain ration by hand on rape pasture, and both the self-feeder and the three per cent, ration fed in the dry feed lot.

The acre carrying capacity of alfalfa was low this last season, due in part, at least, to the fact that the early part of the season was very wet. The land on this pasture was located was not sufficiently well-drained to ensure good development of alfalfa during a wet period. As to earliness, alfalfa h s the advantage over any of the other pastures tested, and because of this fact, should command a place on every farm where it can be grown. It will be found ready for the young pigs when they most need the variety pasture supplies, and weeks earlier than rape, which we consider the best late pasture crop for hogs. These two pastures, alfalfa and dwarf Essex rape, make a good team for the feeder to drive together in his endeavor to cut down the grain cost of pork production. The legume is available early, while the rape pasture supplies the needful in variety for a period much later in the season than anything else so far tested. Together they stand to complete the fall pasture season, while divided they fail to meet

the requirements of the hogs for the full growing period.

Duplex rape and thousand-headed kale both made a good showing for a short period only, their season last year being less than half as long as that of dwarf Essex rape. In economy of gain these pastures made a favorable showing while they lasted, but the gains did not cover a period long enough to represent relative economy

of gain.

Sweet clover failed to hold its own with the other pastures, and since this is the second year such failure has been shown, it is fair to assume that this legume is unlikely to compare with alfalfa where the latter will succeed. The carrying capacity per acre is about one-third that of dwarf Essex rape when grain was fed through a self-feeder, and the grain saved per acre about twenty per cent. of that effected by the same method of feed-

When a three per cent. grain ration was fed in connection with rape pasture, 4.72 pounds of grain were required for one pound of pork gain made. When the same class of grain was fed through a self-feeder in conjunction with rape pasture 4.34 pounds of grain were required for one pound of pork gain made. The three per cent. ration without pasture showed a grain cost of 4.41 pounds, while the self-feeder group, without pasture, required 6.16 pounds of grain for every pound of gain made.

The cost of gain under the three per cent, ration without pasture is not materially greater than the costs shown for the groups receiving a three per cent, ration on pasture, but the logs were lighter at the finish on the non-pasture group, and the cost of finishing them up to the same weight would widen the spread slightly. This group averaged 103.5 pounds at the close; the self-feeder dry lot 112 pounds; the three per cent, grain ration group on rape pasture, 118 pounds; while the group on the self-feeder and rape pasture averaged 199 pounds have weight. It will be noticed that this group which showed the greatest gain made it at the lowest cost. The groups were all divided in the beginning of the test as to litters, and were therefore practically the same

same are when these weights were taken.

This is soon the self-feeder pasture system or border is sharm as being most economical. It has saved level, proved theor and interest on investment. Reportedly, proved 1,453 pounds grain per acre as compared with the status cost of producing the same amount to the properties of the status cost of producing the same amount to the second that the per mode that is select. It is important to compare the per mode capable to select the two systems of feeding, it would appear to the labor cost of feeding under the solitated status. Expressing the idea in another way, the per same capacity for handling hogs under the self-

feeder system is one hundred per cent, greater than under the hand feeding plan.

As to the method of scoling alfalfa and rape pastures, we advise sowing in drills cabout twenty-one inches apart), for the teason that the hogs pass between the rows and the plants are less injured by trampling than when sown broadcast, and appear to grow with greater vigor. In order to meet the increasing consuming power of the hogs with age, the area under rape should be from two-thirds to three quarters greater than that under alfalfa. Since the return per acre on the basis of grain saved from the area allotted to hog pasture is a liberal one it will be better to err on the side of having too large rather than too small an area of land for this purpose. I believe that an acre of rich land will produce sufficient pasture of the varieties now under con-

#### An Efficient Garbage Disposal Piggery.

At this time considerable effort is being made to conserve our food supplies and Canadian cities are beginning to manifest considerable interest in the economical disposal of garbage. With this in mind, it seems opportune to present a few facts concerning the municipal garbage disposal piggery operated by the city of Worcester, in the State of Massachusetts. This information has been given to the public by Frederic Bonnet, Jr., Professor of Chemistry and Sanitation, Worcester Polytechnic Institute, Worcester, Mass. Garbage, of course, is not so valuable as it was previous to 1914, when Canadian urban dwellers practiced com-



A Group of Yearling Romney Marsh Rams on a Farm in England.

sideration to carry an average of four thousand pounds live weight of hogs for the pasture season, provided they are being grain-fed through the self-feeder. This season the rape pasture (self-feeder) are carried hogs at the rate of 9,254 pounds to the acre, for a period of one hundred and forty-six days. The land was very rich. Though alfalfa carried much less weight to the acre, we feel that the estimate above given is a safe one under the conditions set forth.

In showing a remarkable grain saving, pastures have this year only duplicated the results of previous seasons. If all the hogs being grown in Alberta were fed grain through the self-feeder, given access to alfalfa pasture in early summer, and rape pasture for late summer and fall, a total saving of tremendous volume would be effected in the grain required for the same production of pork now turned out; the hogs would go to market carrying a greatly reduced investment in labor and interest and would find their ultimate destination in two months less time than those now handled under the old system.

In order to make a broad comparison between different breeds as to the cost of producing pork, a large number of Yorkshire, Berkshire and Duroc-Jersey sows, due to farrow in the spring of 1917, were purchased from many different breeders. By such purchase the majority of the different strains of the different breeds as far as represented in Western Canada were included in the experiment. Two hundred and forty hogs was the maximum number in this test at one time.

The pigs were weaned at the same age, given the same class of pasture, and fed the same kinds of grain in the same proportions through the self-feeder. The test was begun on May 7, 1917, and concluded on January 17, 1918, when the tardy growers of the different breeds were finally weighed out.

This is the second of a series of three tests which were outlined over a year ago with the object of securing in quite a large way data as to the difference in cost, if any, of producing pork with these three breeds. A full sammary of the results will not be available until the third test is completed. It might be said that the average number of pounds of grain required to make a pound of pork gain with the three breeds in this particular test was 4.99.

In view of the urgent need for increased production in 1918, let the figures showing pounds of grain required for one pound of gain receive the earnest attention of the feeder, for even at the present high prices of grain they point to the fact that a fair percentage of profit may be realized from this business, that the pig patriotic may be also be the pig profitable.

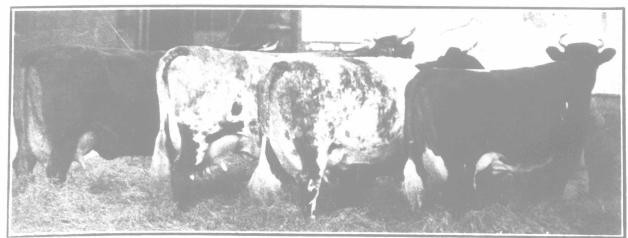
paratively little thrift in the management of their households.

Worcester is one of the old and well-established cities of New England, with a population of about 175,000, It is an industrial city with diversified industries, but with no unusual characteristics. Its foreign population, according to the census of 1910, amounted to only 33.5 per cent. In 1872, when the population was 44,000, the Superintendent of the Municipal Poor Farm, began sending a wagon into the city now and then to collect enough garbage to feed the pigs. The work developed with the growth of the city until in 1917 about 70 per cent, of the garbage of Worcester (20 to 30 tons per day) was taken to the Home Farm and fed to 2,000 to 3,000 The Home Farm proper consists of 376 acres owned by the city, which leases an additional 220 acres at a rental of \$1,500 per year. The city is divided into 21 districts from which the garbage is collected twice a week without charge to the householders or business There is also a special collection for the fish offal and rotten eggs from markets and commission houses, which collection is made daily in special cans with tight-fitting covers. These cans are provided by the dealers. Since this material is not fed to swine. but is buried, no revenue is derived from it, and it is a direct tax on the scavenger department of \$1,760 per The teams leave the Home Farm at seven a.m., and have on an average a 13-mile haul daily (maximum 18, and minimum 10). It requires from two to four hours to make a load. Owing to the fact that Worcester has practically no alleys, the average time per house collection is 1.65 minutes (maximum 3.9; minimum 0.4).

The rules of the Board of Health require the individual householder to provide a suitable water-tight covered receptacle to keep garbage and swill until the same is removed by the city scavengers. No person is allowed to deposit in the garbage any tin cans, water, ashes, glass, sweepings, oyster or clam shells, sawdust, cork dust, old boots or shoes, dead animals, etc.

#### Garbage Feeding Economical and Sanitary.

With the growth of the city and the development of the garbage feeding plant, complaints began to arise as to the economical and sanitary aspect of the scheme. A committee was appointed in 1914 to investigate conditions, and the chairman reported thus: "That disposal by feeding is the most economical method; that the greatest intrinsic value of the garbage, the feeding value, is made use of; that the garbage of Worcester cannot only be disposed of without cost, but that the revenue from the sale of hogs has almost been sufficient to pay for collection." The sanitary experts reported



A Group of Milking Shorthorns at Flintstone Farm, Dalton, Mass.

quite as favorably, and Dr. Edward Cahill, of the Massachusetts Bureau of Animal Industry, made the statement that 95 per cent. of all the hogs of Massachusetts are garbage-fed. Of 2,276 hogs sold by the Worcester pig farm to a local packing house, only I were condemned by the United States Covernment were condemned by the United States Government meat inspectors. This speaks very highly of the health maintained in the swine herds.

#### Operation of the Garbage Piggeries.

The garbage as it comes from the farm is neither washed nor steamed. Washing is considered uneconomical because so much valuable food material is washed away and wasted. It is declared to be unnecessary since no material advantage is gained thereby. Cooking or steaming the garbage has been found by experience to be bad, since the garbage is thereby made more acid than it or linarily is and substances are incorporated, in the food which are harmful to the hogs and which would not be eaten in the raw garbage. A hog is more capable of picking over and culling garbage than any man or machine can be.

#### Inoculation Against Cholera.

The double treatment for swine cholera is practiced in the State of Massachusetts under rigid Government supervision. This makes it possible to inoculate the hogs on the gambage-feeding farm and immunize them against hog cholera. Restrictions are placed on the double treatment in Canada, but the single or serum alone treatment may be used on garbage-feeding plants. It is furthermore required that the garbage be cooked. Speaking at the last Swine Breeders' Association meeting, in Toronto, Dr. F. Torrance, Veterinary Director General for Canada, expressed the opinion that the serum alone treatment combined with the cooking of garbage would protect the herds. At Worcester, the hogs are fed until they are frequently over a year old. It might be considered impracticable to use the single treatment on such hogs, as it only renders them immune for a period of six weeks to two months. It is not a Canadian practice to feed hogs up to the age stated, but if it were found to be economical and desirable some. suitable arrangement might be made with the Health of Animals Branch, whereby the hogs could be protected against hog cholera.

#### Out-of-Door Feeding Platforms.

The pigs are fed in pens until about six months of age, during which time they consume garbage. They are during which time they consume garbage. They are then turned into hog lots (100 pigs to about three acres), with out-of-door feeding platforms made in 8.by 8-foot sections of 2-inch plank. These are mounted on skids and have a half-round timber on two sides to prevent the garbage being pushed off. The cost per section was \$7 with farm labor. Several sections are placed and when the ground around the platform end to end, and when the ground around the platform becomes fouled the sections are skidded to another location and the ground of the former location plowed up. By this means the garbage trampled into the ground is kept from decaying and producing foul odors. The platforms are shovelled clean daily, and the material removed is composted or buried. The hogs are kept for about fifteen months, when they are sold. They then weigh 250 to 300 pounds. A herd of sows and boars are kept to provide feeding stock, and farrowing is controlled so there may be a sufficient number of pens. During farrowing and sometimes during inoculation a little grain and middlings are fed. Boars are rarely kept more than two year and only prolific sows that are good mothers are kept for repeated breeding.

#### Cost and Revenue.

Space will not permit of a detailed description of buildings and equipment, but suffice to it say that the average net cost of disposal per year was \$10,169, or \$0.074 per capita. The total cost of collection and disposal per year now totals \$60,435. About 1,500 swine are sold each year, and at the price of pork in 1917 realized a total of \$60,000. In the years 1902 and 1910 a clear profit was shown over and above the cost of collection. In 1902 the total expenditures were \$18,765.03; the total receipts were \$18,766.99. In 1910 the total expenditures amounted to \$37,039.68, and the total receipts were \$43,224.25. The estimated cost of building and stocking a 20 to 30-ton garbage piggery is set at \$81,700.

There are about 2,000 swine on the Worcester farm during the winter months, but in summer this humber is increased to 3,500. About 100 to 150 pigs, depending upon the size, will take care of one ton of garbage, per day. One caretaker can care for about 250 to 300 pigs a day-feed them, bed and clean out the pens. five cords of cleanings are produced daily (1,500 to 1,600) cords per year) and have a value of about \$4 per cords as ferthizer at the farm. The Home Farm has neverbought fertilizer in any material quantity for its farm land, or truck garden, and the scavenger department has never been credited with the value of the pig manure

from the piggery We have endeavoied to set down briefly the system We have endeavosed to set down briefly the system followed on a space still garbage-feeding hog farm. Such plants are contained in the United States. There is a possibility that the deepe to conserve feed and produce more food may lead cries and provide individuals in Canada to consider garbage icoding. Before attempting in Canada to consider garbage icoding Before attempting any such plan, the promoters of such a scheme should become thoroughly acquainted with the details of the work and place the responsibilities connected with the operation of same in the hands of a competent and trained man.

Don't allow the flock of slieep to run in yards or old orchards where burrs are standing or where other weeds will get into and injure the fleece.

#### A Good Live Stock Show at Brandon.

Once more the Manitoba Winter Fair at Brandon was a substantial success. The visitors to the event were impressed by the high quality of the Clydesdales and Percherons, by the outstanding quality of the fat cattle, and by the success of the bull sale. The lastmentioned feature unmistakably marks the progress of the pure-bred cattle industry of Manitoba and the West generally. The quality of the bulls wa good, and buyers were on hand to bid on the best animals. In all 189 bulls were sold, bringing \$48,060, or an average of \$254. The 154 Shorthorns brought an average of \$238.35; 18 Aberdeen-Angus brought an average of \$337, 'and 6 Herefords averaged \$281.68. The Shorthorn females, 8 in number, averaged \$321.25, and 2 Hereford females averaged \$402. The feature of the sale was the price paid for Rosewood 2nd, a Nonpareil year-old Shorthorn bull, bred and contributed by J. B. Davidson, Myrtle, Man. This bull sold for \$2,200 to C. McMillan, Oak Bluff.

The fat classes for cattle were well filled, and the entries were brought out in good fit. The grand champion bullock of the show was calved in 1916 and bred by J. D. McGregor, Brandon, Man. The name of this animal was Glencarnock Victor 3rd, following in order the two animals previously bred at Glencarnock and

champions at Chicago. The Clydesdale exhibit was of very high order. The classes were exceptionally large, the horses were unusually well fitted, and the winners had to be exceptionally good. In the aged-stallion class, no fewer than 23 horses lined up, and the judge, Dean Rutherford, of Saskatoon, encountered some heavy work in placing the awards. The winning horse was Edward Garnet, a big, stylish animal, shown by Ben Finlayson, Olds, Alta. In the three-year-old class, Thomas Halpenny, Regina, won with Baron Wallace of Hillcrest. There were over twenty in the two-year-old class, and here R. H. Taber, Condie, Sask., won the first-prize ribbon with Duke of Hillcrest, a quality horse by The Bruce. The yearlings also constituted a strong class; here Taber also stood first with Prince of Hillcrest, which entry later carried off the male championship of the show. The female classes were well filled, and some beautiful mares paraded before the judge. In the four year-old and over class, Flashend Princess, shown by G. C. Porterfield, Brandon, stood first. Doon Lodge Manita, owned by Mrs. W. H. Bryce, Arcola, won the Canadian-bred championship for females

The Percheron exhibit was not as large as has been seen in other Western show-rings, but the quality of the horses was uniformly high. The outstanding representative of the breed was George P., shown by Dr. Read, Regina. He was a very showy horse and hard to fault. He won the aged class and the championship

#### THE FARM.

#### Comments on Correspondence.

EDITOR THE FARMER'S ADVOCATE

I have been a reader of your valuable paper for a number of years. I have read many farmers' letters with pleasure, and a few, I must say, with disgust. It seems as though men in almost every walk of life have something to throw at the poor old farmer, in this time of stress and strife. The common by-word is "The farmers are getting rich." I think a great deal of this kind of talk is the farmer's own fault. Farmers are just like a lot of hens, if they lay an egg they have to cackle to let everybody know it. If a farmer happens to hit luck and make a few dollars, he has to advertise it, but he never advertises his mistakes or failures.

Now, just think what our city cousins and our ex-Food Controller, and a lot of our Government officials, who have never raised a hog and probably wouldn't know a hog from a load of hay, would think if they happened to read that letter in the February 28 issue, by J. P. Cole, where he says he made \$79.90 profit on four pigs not five months old. Can you blame the city folks for callingsus profiteers? I will just run over Mr. Cole's figures for fun for myself. He just gives account of 2,090 pounds of feed. If I am not mistaken, Government experiments have shown that it requires from 5 to 6 pounds of grain to make a pound of pork; 2,090 pounds divided by 5 gives us 418 pounds of pork. four hogs weighed 720 pounds, so when we subtract 418 pounds we have 302 pounds of pork unaccounted for. That at \$18 per cwt would be \$54.36, leaving his profit at \$25.54, which I would consider a very good profit. Maybe Mr. Cole keeps his brood sow and young pigs on hot air, but I find that it costs me more to make the first 100 pounds of a hog than it does the second 100 pounds.

We are making good money this winter feeding hogs, because we happened to be lucky enough last fall to have a lot of soft corn, but for the man buying all his feed, I think he has to be a good feeder if he breaks Yes, and here is a little more of the sunny side of the hog business. We must not forget that hogs, like human beings, will sometimes die in their young days, and again a man may get a nice bunch of hogs almost ready for the market when along comes hog cholera and away go his hogs into a hole in the ground, profit and all. We never had the cholera in our herd, but we will have to make a lot more profit yet this year to even up what we lost in the year 1916.

I have been looking over the hog and grain markets for the past fifteen years and comparing them, and I have come to the conclusion that the man who is rais ing hogs is about where he always was-just a little

profit if he figures right. But I don't think any of us will make that 11 per cent. on our investment, like the privileged packers are allo ed. By the way, I see by to-day's paper that the Government is talking of laying aside a little, and, in case the packers have to sell on a declining market and lose money, it will be paid back to them. Now, would not this be a good way to increase the production of pork,-just let the Government lay aside a few millions to pay the farmer all he loses by holding his hogs till they are finished, even if the price does drop a couple of dollars a hundred, because we all know that there are thousands of hogs sold every year half-fat, for we know not when the price will drop?

I don't want you to think that I am an old grouch,

because I am not. I am a young man who came in the first class of the M. S. A., but I am exempt on account of physical unfitness. I have been on a farm all my life and like the work, and I know that there is a good living, and a little to lay aside, on the old farm for the fellow who is willing to work hands, feet and head from five o'clock in the morning until eight o'clock at night. I don't think that many farmers will ever get

#### Essex Co., Ont.

J. A. HEATHERINGTON.

Better Plowing Essential. EDITOR "THE FARMER'S ADVOCATE":

To-day, more than ever before, the writer, as well as many others who held the plow fifty years ago, can testify to the truth that we grew more grain per acre on the run-down clay farms then than we have in the past three years, even with all the tile draining and artificial fertilizers that are being expended on the farms. The writer, being a close observer and having farmed on various kinds of soils, firmly believes that at least two thirds of the failures on low muck and sandy lands and clay farms especially can be traced to the wide, flat lands leaving no drainage. We well remember seeing all the fields plowed in about six-pace lands, and after the crop was put in many of the furrows were run through with a plow and the cross furrows cleaned out nicely, This gave drainage and warmth to the soil and a complete failure, as we have known them too frequently the last few years, was unknown. The cause of this mode of plowing is no secret. It can be traced to the riding plows and other riding machinery, and the fear of the present young generation of a few bumps. I would like a little space to show the new beginner how to produce the greater production we read so much about, and give the thinker something to think over. In some of the particulars some may not agree with me, such as a clean cut, wide bottom plow, with a coulter, wheel and skimmer that will turn a minature furrow of 11/2 inches deep by 21/2 inches wide, and a good stiff team that will turn a full furrow on striking out the lands. These first two furrows should be turned flat over so their edges just meet firmly together, but not one piled on top of the other to be dragged over the surface when cultivation begins. Strike out your lands six or seven paces wide and back furrow each land off by "geeing" about until the proper width. You will not plow two lands before you will see what a nice slope you have from the centre of the land to the ditch. If the furrows are turned over flat, rolling is of very little use and lost time, and the disk should be run lengthwise a couple times, taking care not to get too deep so as to tear up the sods or weeds on top to start before your crop gets up and crowd it out. The disk when properly used is a good pulverizer, but otherwise it throws the land into knolls and holes for water to stand in. It should always be lapped half way to avoid the above unevenness. If the land is stubble or corn ground, there has been nothing better invented to pack and level it with than the good old drag harrow, and if it only could be made to ride easily it would not be so little used. By the time a field is dragged four times over there is scarcely a foot of land in that field that the horses have not stepped on. Work the lands mostly lengthwise and don't try to fill the furrows up, but work the edges down, and when you get a good crop when your neighbor has none you won't mind the reaper bumping a little.

In conclusion I want to put in this already too lengthy letter a few don'ts. Don't get your seeds too deep down in the cold, wet ground. Don't roll after planting, unless you give it a harrowing after. Don't plant corn, beans, or potatoes, deep in a hole, but on top, and cover with earth; try this if you want these to grow this year and you surely do as seeds never were higher in price. Don't sow timothy or clevers in front or behind the drill without rolling or dragging first. Try this with one-third less seed. Give a light dragging after as those spindly little plants cannot shove their way through two inches of heavy soil, and half of the seed after or before a drill goes three inches deep. Don't think you are gaining time by plowing wide lands, as you are not. One gains one round across the field every time a land is struck out. I want to tell you how a neighbor of mine made a complete failure growing factory peas last year. He had the sod field plowed without a skimmer so the grass and weeds showed in the edge of every furrow, and plowed in is wide lands as possible. He crossed and cornerwise disked so deeply that the field was all covered with bits of sod. He rolled and dragged it and drilled them in at least four inches deep, then rolled the sods in to grow and the peas so solid they could not get through the ground, and as peas cost the company from \$12 to \$15 to seed an acre, it is a serious thing to make such mis-

Elgin Co., Ont.

Note.-It is hardly likely that the farms which our correspondent speaks of farming fifty years ago were as badly run-down as far as fertility is concerned as they are now after a half century of cropping. The land would be new then.—EDITOR.

MARCH 28, 1 Huma

EDITOR "THE In December ment. Not as a three years ago

would vote as I I knew, and every day, tha political pariah but had never or party issues. strong enough the Conservativ me for my suppo

During the a Gordon, (Ralph vince on Canad in a nearby town of our men in F enemy, the appression of Britania the great need o boys at the fro service for over ing party and a important one roused within m I offered my se Union candidat sides of politics

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less. With the g was that they be that was enough felt that the Unio under a nom-dethe Union Gove the honest-minde party only could conscription and butchered in Fran

Getting down men were partiza political muchine thoroughly built would almost say unswerving devo life, some position which will ensure a chance to make of voter who is re ness of governmental after year by the tive or political for some mere or less and enables the I as so much certa is the biggest cur clean gevernment male of influence heeler, he acts for ignorant, shiftless at the time of an el A second class

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#### **Human Nature and Politics.**

EDITOR "THE FARMER'S ADVOCATE":

In December last for the first time in my life I went on the stump in my county in support of Union Government. Not as a party man, mind you. I gave up party three years ago and vowed to myself that in future I would vote as I pleased or thought best or not at all.

I knew, and my knowledge of the fact is increased every day, that such a course would brand me as a political pariah or outcast. I had always vited Liberal but had never given much thought or time to elections or party issues. However, I was always considered a strong enough Liberal to make the candidates for the Conservatives believe it not worth while to ask me for my support.

During the autumn and early winter, Major C. W. Gordon, (Ralph Connor) lectured throughout the province on Canada's position in the war, and I heard him in a nearby town. His graphic portrayal of the heroism of our men in France, the powerful organization of the enemy, the apparent sloth and inefficiency of the Allies, especially of Britain and English speaking countries, the great need of men to help and take the place of our boys at the front, many of whom had been in active service for over three years, and the need of subordinating party and any other mean consideration to the all important one of doing all we could to win the war, roused within me my first real feelings of patriotism, and I offered my services in the election campaign to the Union candidate, knowing that my friends on both sides of politics would repudiate me as a job seeker.

At first it was rather amusing to be treated by my old party friends on both sides as if I had the small pox. Then I began to pity those who were so blinded by the teaching of years that they would close their ears to all arguments, but those of their own party papers and heelers. At the different places we held meetings had a splendid chance to study human nature in the men and women I met. The women were, as a rule, in favor of conscription and a Union Government. I was suprised also that althought it was their first experience in the franchise their ideas were comparatively clear and well defined, and they seemed to have less of prejudice and more of a fair-minded desire to vote right than the men of either side. I had always been in favor of female suffrage for I felt that the masculine vote had fostered a political system of graft and corruption that was making Canada a disgrace, and the slime was spreading and becoming thicker every year, and I hoped if women were given the franchise their influence would be for political purity, at least.

In this campaign I met many women voters, talked with them when their hearts were yearning for sympathy and encouragement to bear the absence of loved ones at the front, and for knowledge of the questions at issue in the present crisis, and I still feel that the extension of the franchise to women will be one of the wisest laws that the statesmen, not the politicians, at Ottawa could pass—They will, if allowed to vote, use the privileg much the same as the men, inasmuch as they will be influenced by friends and government parasites. They will hear, read and be prejudiced on general questions by the people they talk with, and the papers they read. become, the majority of them, almost if not quite as strong partizans as the male voters and will listen to or read only one party's arguments. They will probably never give as much feeling, thought and time to politics as the men but-and here is where their real value will come in. If any question concerning moral reform, political trickery, national progress, or bettement of existing conditions comes up as a plebiscite or in connection with an election, I think we can in almost depend on the women voting for the right, at least as far as they can see the right.

But the men I met in this campaign! They were hopless. With the greater number the predominant feeling was that they belonged to the "Grand Old Party", and that was enough said, if they were Tories they piously felt that the Union Government was their party working under a nom-de-plume and that all who worked for the Union Government had turned Tories. While the honest-minded Liberals maintained that the Liberal party only could save the country from the disgrace of conscription and save our precious boys from being butchered in France.

Getting down to an analysis of feeling, I found that men were partizans for three principal reasons. The political machine of both parties has been built and thoroughly built on the hopes and aspirations of, I would almost say, the majority of voters who hope by unswerving devotion to party to gain, at some time in life, some position or emolument under the Government which will ensure them a life of greater ease and honer; a chance to make a little more money. This is the class of voter who is responsible for all the graft and wickedness of governments the world over. Held off year after year by the indefinite promises of his representative or political friends in power or given possession of some mere er less soft job, he sticks slavishly to party and enables the machine to manipulate blocks of him as so much certain filling material in an election. He is the biggest curse to be found in the state, as far as clean government goes. This monster is too often a male of influence in his county or community; a party heeler, he acts for the machine in herding together the ignorant, shittless and unthinking and don't-care voters at the time of an election.

A second class takes his party politics like his religion and his surmaine, from his father and thinks as much of changing the first as either of the others. He is also generally anneasoning, ignorant and prejudiced. He does not stand out distinctly, but shades into and

partakes of the feelings of each of the other two classes and is probably as hopeless as far as any real support to his country goes—No matter how flagrantly corrupt his party has been he will not believe anything against them, he also is a "sure count" with the political heeler.

A third partizan is the one who is afraid to change. He fears the turning out in the cold by his own machine and non-acceptance by the opposite group. Being prepared for it I was amused to notice how quickly the cordiality of the Tories toward me cooled after the Union Government came into power and my usefulness and the campaign ended. How much more self-respect would be engendered in a number of our voters and how much purer governments we would have if yoters would only realize that their representatives and political friends considered them as so much fuel useful principally at election seasons to keep the party machine in action, and how faithful they are to this machine even against their own interests.

In my precidential address before the farmers of Nova Scotia last year, I spoke of the contemptible action of both parties in the local house in allowing legislation asked for by the farmers to pass the house of assembly with the understanding that it would fail to pass the local Senate, thus hoodwinking the farmer into believing that his representatives were doing all they could for him. In spite of the fact that the representatives had thus made a laughing stock of the farmers there were a number of farmers of both parties in my audience who were indignant at my arraingment of the political tricksters who had fooled them. In regard to this last class, or, in fact, all classes of partizan voters, I would like to live to see the day when a man or woman voter will be as much ashamed of having to confess that they are, and always have been followers of one particular party as they are ashamed to-day of being called turnomats.

These classes of partizans cannot believe that a man could change his vote from pure and disinterested motives. In the campaign in December last I found comparatively few who took me at my face value and believed that I was working from patriotic purposes. The Tories thought I had turned Tory permanently. A few Liberals considered me a weak Liberal who had been influenced by the enemy's false appeal to patriotism. A large number of both parties were sure I was after a Government job, and a few insinuated that I was getting paid straight for speaking as a former Liberal in favor of Union Government.

In any case I would not have missed the experience for a good deal. I learned a lot more about human nature and had my ideas about the political system confirmed and strengthened.

N. S. R. J. MESSENGER,

#### Favors Four-foot Sleighs.

Editor "The Farmer's Advocate"

Having noticed your articles re wide sleighs, I thought I would tell you the opinion of the people in this district. The general opinion of the farmers is that sleighs should be four feet, centre to centre of the runners on the ground. Many farmers have already got their sleighs made that width. This being a lumbering district and having used sleighs of both four and five feet, teamsters all say for an all-around sleigh four feet is by far the best width of all. A sleigh being much lower down than a wagon and the load placed directly on top of the runners instead of in between the wheels as on a wagon, I do not think it necessary to have sleighs made four feet eight inches as a wagon is.

Muskoka District, Ont.

R. V. KNIGHT.

#### Prevent White Grub Injury.

Crop Protection Leaflet No. 5, by C. Gordon Hewitt, Dominion Entomologist, has recently been issued by the Dominion Department of Agriculture and deals with white grubs.

White Grubs, which are the larvæ of the well-known May Beetles, or June bugs, will, it is expected, cause serious injuries in the Province of Ontario, and possibly in other sections of Eastern Canada in 1918. The statement is based on our knowledge of the life-histories of these insects. The grubs feed naturally on the roots of grasses, so when sod land is ploughed up they are deprived of their usual food and readily attack such crops as corn, potatoes, strawberries, etc., if grown on the land. The injurious species require three years to complete their life-cycles; in other words, a period of three years elapses from the time the eggs are laid until the grubs which hatch from the same are mature, transform to the pupal state and appear as beetles. In 1917, the beetles were very abundant in certain districts in Eastern Canada, and eggs were deposited freely. The grubs hatching from these eggs did not develop much during the past year, but in 1918 they will grow more quickly and, being more voracious, will undoubtedly cause serious injury to the roots, etc., of various kinds of field crops. They will continue to feed throughout the growing season, and in the autumn of 1918 go deeper into the soil to pass the winter. In the spring of 1919 they will again come near to the surface, feed for a short period and then rest for a time preparatory to changing to the pupal state. It will be seen, therefore, that the second year in the life of the grub is the destructive one.

#### Methods to Prevent Serious Injury.

CROPS FOR INFESTED LAND.—The female beetles lay their eggs in sod land, and also land bearing such crops as timothy and the small grains. Suitable land nearest to groves or woods is favored by the beetles, which feed upon the foliage of the trees and then visit such nearby fields to lay their eggs. In districts where the beetles were abundant in 1917, it is to be expected that such land is now more or less infested with the grubs, and it would, therefore, be unsafe in 1918 to plant on newly broken sod land, or on land grown to the above crops in 1917, any crop which would be attractive to the grubs. Crops particularly favored by white grubs are potatoes, corn and strawberries. In addition to these, other crops which are grown in wide rows, and timothy, are liable to injury. The safest crops to grow on land which is suspected of harboring grubs, are alfalfa, clover or buckwheat. If it is not desirable to use infested land for alfalfa, clover, or buckwheat, the same may be again planted to timothy or small grain. Such crops as corn or potatoes should not be planted in 1918, on newly broken sod land in districts where the beetles were abundant in 1917. Corn or potatoes grown on land which grew the same crops in 1917, and which were kept cultivated and comparatively free of weeds during the flight of the beetles in May and June, 1917, will be reasonably safe from injury by white grubs in 1918.

CULTURAL AND OTHER METHODS.—Under garden conditions, grubs are often turned up when the land is being dug or ploughed. As many of these as is possible should be removed by hand and destroyed. Under acre conditions there are unfortunately no practical measures known to destroy the grubs when they are known to be present in the land, and destroying crops. Late summer ploughing which brings many grubs to the surface.



Two Necessities on the Up-to-date General Farm—Sheep and an Automobile.

crushing numbers of them and exposing others to weather conditions, is useful particularly in years when

the grubs are changing to beetles. Land known to be seriously infested and required for cropping in 1918 may be ploughed in late spring, thoroughly harrowed and planted to a late crop. Such late cultivation will attract to the fields, crows, blackbirds, and other birds, which are known to feed readily upon these grubs, particularly during their nesting period. Domestic fowls, such as chickens and turkeys, are also fond of white grubs and should be allowed the run of infested fields when these are being ploughed.

Limited areas may be practically freed of white grubs by turning in hogs, either in spring after the first of May, by which time the grubs will have come near to the surface, or in late summer when the crop has been removed. These animals are very fond of white grubs, and will root them out and devour them. An intestinal worm of hogs, called the giant thorn-headed worm, is known to pass one stage of its life-history within white grubs. The worm is introduced into the hog when the latter devours the white grub. There is little danger of this happening, of course, if the hogs are allowed the run of fields in which no such animals had been pastured within three years, as any worm infested grub in the land during such period will have matured and disap-

#### Representation.

EDITOR "THE FARMER'S ADVOCATE":

I notice in your issue of February 28th a letter from Mr. Pierce in reference to the adoption of a better method of representation, and the use of the referendum. Permit me to endorse all he says with one exception: It would not do to give an elector three equal votes in a constituency electing three members. What is necessary in order to secure minority representation is the giving of a single transferable vote to each elector in a constituency in which several members are to be elected. Under our present system of single member districts it is absolutely impossible to secure proportional representation; so that the first step in reforming our present system is the grouping of our small districts into larger ones and the election therein of several members.

Some time I may trespass upon your space to show what kind of representation we do actually get under our present system. Now, however, I venture only to point out the fundamental error in our present methods. We have divided our electors into various portions and have given each portion the privilege of electing a representative. But each portion so happens to be composed of those who live together in the same district, not of those who think together. Hence we cannot get any correct representation of opinion. H. G. Wells says of Proportional Representation that it is "not the substitution of something for something else of the same nature; it is the substitution of right for wrong."
And in the same connection Prof. H. A. Overstreet says:
"Think of what our 'official' brain centers are now. Districts and precincts! Square miles of space inhabited by heterogeneous crowds of beings having nothing deeply and continuously in common! It is preposterous. The true social brain center is the group that functions in common, that has interests and knowledge in common. Until we tap such centers as these we shall remain as we are now, socially and politically brainless."

#### Keep the Ball Rolling.

W. C. Good.

EDITOR "THE FARMER'S ADVOCATE":

Brant Co., Ont.

Having seen in your issue of February 7th the sug-tion of "Subscriber" with reference to "Wider Sleighs", I can say he has given expression to my ideas on this subject, as did the article in your February 28th issue on the same topic. I think this is a subject that should be discussed by farmers, to see if some means could be arrived at by which sleighs would have to be wider. New sleighs could be built wider without much expense, but to get the sleighs we have rebuilt seems to me to be the greatest difficulty. Yet if a law were passed requiring all sleighs on the roads to be the same width as wagons, and manufacturers were not allowed to make undue profits on hub runners (because we would have to buy them), I think the change could be made.

Let us keep the ball rolling till we have wide sleighs on our roads. York Co., Ont. SUBSCRIBER.

#### Germination Tests.

Articles which urge the importance of sowing only

EDITOR "THE FARMER'S ADVOCATE"

seed whose vitality has been proved, are very gratifying reading to those whose work is in connection with the seed supply. A small addition could profitably be made to the instructions for testing seed, given in the articl. on the seed supply in your issue of February 7th. It is some years since the method of home testing by means of moistened blotters between plates was first recom-mended. Experience has shown that it is unsatisfactory, and that much good seed will be lest if grain is discarded owing to its failure under such a test. At the office of the Seed Branch considerable attention has been given to methods of home testing, and it has been found that even in the laboratory, where more attention is naturally given to the seed than would be possible in the majority of homes, the method gives very unsatisfactory and contradictory results owing to the difficulty of maintaining constantly the proper degree of moisture. After all the recommended methods had been tried out, it was found that the simplest, as well as the only satisfactory way is to plant the seeds in a small box or can of moist earth, which is kept in a warm place until the vital seeds have sprouted. This is especially true of Western oats which share with corn the distinction of being the most deceptive of common farm seeds. The superiority of the method is so evident that in the Seed Laboratory at Calgary oats are always tested so, rather than in the standard germinator, the blotters of which are kept moist automatically. It is important too, that when-ever possible a sample of seed which is known to be good be sown at the same time as the sample to be tested. Then if the good sample fails to grow well, one may be ure that proper conditions have not been maintained. If the results of a test are not convincing or if facilities for testing are not at hand, any one may have his seeds tested free at the seed laboratory. The samples should be addressed to the Seed Commissioner, Dept. of Agriculture, Ottawa, and, if not exceeding twelve ounces in weight, are carried free by the mails.
H. B. SIFTON

In Charge of Germination Laboratory.

#### No Carping Criticism.

EDITOR "THE FARMER'S ADVOCATE":

Enclosed please find postal note of \$1.50 as renewal of my subscription for 1918. We are well pleased with "The Farmer's Advocate." We have been taking it now for a number of years, and think it is improving each and every year. Life nowadays on the farm is so hurried and burdened with work that we have scarcely time to read any paper at all, but we always find time to read the "Advocate," even though we have to curtail our hours of sleep, and think that it is time well spent. It is no flattery to say that your editorials on the various questions affecting the farmer that frequently arise are excellent, calm, fair, appropriate, sensible, timely and to the point. The trouble with some of us too often is that we are inclined to indulge in carping criticism, and it sometimes does more harm than good, and gives us a bad name, for we often hear urban dwellers say that 'the farmers will grumble anyway; that they are never satisfied, no matter how much they get for their produce they want more." We cannot deny that there is often some truth in this assertion, and although we get plenty of reason for grumbling it is better not to let it become a habit with us. The conditions that give cause for grumbling are often those of our own making. We grumble at the Government and its officials, and

then when election time comes around we listen to the race cry, religious cry, and every other old cry that is raised by the professional politician, and we vote to give the professional place and power in preference to the farmer who would best serve our interest. It is no wonder that leading men who spend their time and use their talents advocating the cause of the farmer, after a while become discouraged and quit. The representatives of the big interests are always on the alert and when they see a leading man advocating the farmer's cause, they first try to choke him off and if they don't succeed that way they then try coaxing him off, and invite him to a banquet or to speak at a club me eting usually held in the city of Toronto, where they wine him and dine him, and pet him and flatter his vanity, until he concludes a "separate peace," and what is worse, he often joins the enemy and hits back at the defenceless head of the poor unfortunate farmer. Now, this is all our own fault. If we don't stay loyally by our leaders and support them, especially in the hours of adversity, we need not expect them to lead us to the

However, the future is looking brighter for the farming class. A few years of war and consequent scarcity of food has taught the urban dwellers and the powers that be that the farmer is at least a factor and of some importance. And the frantic efforts of our leaders to conserve food and fuel and to increase production have, in many cases, only clogged the wheels of progress. But it has taught the farmers that our leaders are not the oracles of wisdom we used to think they were, and we must do our own thinking now as well as our own physical work.

> "Others' follies teach us not, Nor much their wisdom teaches: And most of sterling worth is what Our own experience preaches.'

Ontario Co., Ont.

JOSEPH FOX.

#### Gang Threshing Would be a Success.

EDITOR "THE FARMER'S ADVOCATE":

I have read your valuable paper for some time, but have never found any articles which have interested me more than those on "Gang Threshing." Where help is so scarce and the fall ploughing a very important matter, if not a vital one, it is practically impossible to get the ploughing done when there are so many threshings to attend and silos to be filled.

Regarding small outfits run by gasoline engines, I may say there are few men who understand gasoline engines and can repair or adjust them when they get out of order, besides they have to be kept dry or the ignition and batteries will not work. True, it would cost more at the time, but think of the great amount of extra time that would be saved in changing hands, etc. Besides there wouldn't be such early and late hours at both ends of the day that are caused by changing

Personally, I might say, that on account of such a large number of threshings which I had to attend and being alone the greater part of last fall, resulted in my not getting half my fall ploughing done. Gangs cannot help but be a grand success and a great time-saver to the over-worked farmer these days. Could many of our prominent farmers not lay this before the Minister of Agriculture and the owners of threshing outfits, and next fall be ready to carry out this valuable scheme?

Northumberland Co., Ont. WARREN A. ATKINSON.

#### Record Prices For Seed Corn.

In the report of a farm sale recently held near Harrow, Ont., seed corn was said to have sold at from \$30 to \$50 per bushel. The variety was White Cap Yellow Dent, and the seed was guaranteed to germinate

#### Canada's Young Farmers and Future Leaders.

#### What I Like About My Part of Canada.

EDITOR "THE FARMER'S ADVOCATE"

The backbone of true patriotism is love of home. It is characteristic of Canadians, that the part of this wonderful country in which we dwell, is to us the best part of Canada. Sad, indeed, is the lot of the man who does not like his own part of Canada, for contentment is the keynote to highest efficiency and true happiness. Happy is he who has found his work and lives in congenial surroundings. But I like to think of "our not alone in its geographical sense, but rather in its relation to our work, or our place in service to the nation. Perhaps the views of a young farmer may be of interest, in view of the increased attention paid agricul ture of late. Formerly the farmer was regarded by most people as a very useful and necessary man, but probably he himself is chiefly to blame for the inferior position in which he was placed. Farmers generally were too indifferent, conservative and unorganized, to be a very dominant force in national affairs. True, they worked hard, and produced much wealth, but as a rule the railways, manufacturers and middlemen got

most of the benefit. However, owing to the world food scarcity the farmer to-day is taking his proper place and here are a few reasons why farming is one of the best and greatest vocations of the present day.

Wherein lies the chief charm of farming? Is it the easy life, the money, or the pleasure? With chores every day of the year, including Sunday, with long, arduous days in seeding, harvest and threshing the farm offers no inducement to a lazy man. As to money, it is doubtful if the average farmer who pays his honest debts, supports church and other beneficial institutions, improves his home, lives and dresses comfortably, and takes time to enjoy life a little is saving very much hard cash. True, prices are high now, but taxes, machinery and other expenses eat huge holes in the farm receipts, and the city business man would be surprised at the small margin a farmer has to himself. As to pleasure, our urban cousins with their many companions, movies, concerts and theatres might find our country pleasures tame indeed. For sport in ordinary times we have football, hockey, tennis, boating, driving, skating, and snow-shoeing. "In times like these" we should be busy enough not to need very much of these exercises, however. Occasional concerts and entertainments of mostly

home talent help to make country life pleasant, and during the long winter evenings and rainy days, our hobbies, books and magazines, and piano become real friends to us. The city young people pay others to amuse them, we have to depend on our own resources, and I think in the end it is better to learn to be good company for oneself.

As a life-work farming is attractive to me for several reasons. First, it is a man's job every day. The manual labor involved demands fit bodies, and in return we get good health and appetites and sound sleep. Modern agriculture demands trained minds, and the most brainy men will find ample scope for their in-tellects. Again it demands trained hands, for a farmer has to be a carpenter and machinist and be proficient in many other trades in his work. Lastly, to be a true success a man must be of a high moral make-up, for farming more than any other vocation is a partnership between God and man. Even the most careless about religious matters must take his Partner into account in his work. Though he may say very little, may not even analyze his feelings, yet underlying all his work he must realize his dependence upon God for success. This gives one's successes a better flavor, for the farmer

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To set up a hor spare time and less a as the brand-new, exfore it is desirable.

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4. Put arms in pr 5. Put a bolt of end of arms, and tight

can feel that he is creating wealth where there was none before. Every bushel of grain he grows, every animal he rears, every product he produces is that much increase added to the nation's resources. The city clerk who exchanges so many hours a day for a stated salary or wage, or the business man who buys the product of another's ingenuity and industry, selling at a substantial increase, cannot realize the satisfaction of the farmer who, in partnership with Nature, is creating wealth from the raw material.

Again, farming is a challenge to our individuality. The farmer is, in a way, master of his destiny, as far as his own farm is concerned. Of course, every one is dependent on his fellowmen to some extent, but a farmer may keep what kind of stock he wishes, grow particular crops, and is not bound by hours or rules in the manner and time of doing his work. This gives him a sense of independence, and he is thus able to do what he himself wishes, when he likes, and does not have to answer to any superior for it. This independence is not an unmixed blessing perhaps as farmers have not co-operated mixed diessing pernaps as farmers have not co-operated in their own interest as they should, but that is another subject. This individuality should be manifest in the appearance of our farms. We should have some outstanding characteristic to distinguish our farm from our neighbors. For instance, an appropriate name, the

breeding of a particular kind of horses, cattle, or poultry, buildings painted in some color scheme, at least something different from the common run.

Another advantage is a variety of work. Many of Another advantage is a variety of work. Many of our jobs would be very monotonous as a yearly proposition, but very rarely does any particular operation last more than a few days. If some of them did last into the weeks, I fear we would be heartily tired of them and long for a change. What variety of work we have in the year's operations! The factory hand or tradesman who daily goes over the same routine, does not have the satisfaction of finishing up an operation for the year, the satisfaction of finishing up an operation for the year, and commencing something entirely new. It certainly adds zest to our daily labor.

Again, every year gives the farmer a greater chance. While it is necessary to plan for several years ahead, and our stock and crops are dependent on work done in the previous years, yet every spring brings renewed hope of better success. One season may be too wet, another too dry, yet here in Ontario we can always depend on some crop, and the mistakes of one year need not be repeated the next. Besides there is the interest of experimenting, and the keen farmer will not be content to drift along in an old rut, but will be ever branching out and trying new methods.

Nor must we forget the beauties of Nature that the

poets rave about. The sunrise and sunset, the rolling fields of grain, the flowers and birds, are all seen and appreciated by the farmer, but you may be sure he says little about them. He is too much afraid of being thought sentimental, but were he shut up in a factory or office he would certainly miss them greatly. Nature is a great study, the growing grain, the trees, even the weeds that cause so much trouble, all have their vital interest. The oriole that sings to us at breakfast and the bob'o'link, as we plow, are old friends that we miss when they migrate. Most farmers are fond of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals which are so described to the control of their animals are so the control of their animals are so that the control of the co animals which are so dependent on them for food, and do their part to earn it. They too are interesting, especially when young and when they are ready to be sold, though sometimes it is very hard to part with old faith-

Lastly, we have the fact that in farming, as perhaps in no other vocation, the home and business are closely knit together. The home is not merely a place to eat and sleep, it is a vital part in the concern. Every member of the home should have a share in the enterprise and its success. Herein lies the greatness of agriculture that home is the centre of its operation, and this is the greatest reason why I like my part of Canada is the greatest reason why I like my part of Canada.

M. J. SLEMMON.

# Automobiles, Farm Machinery and Farm Motors.

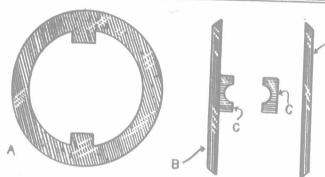
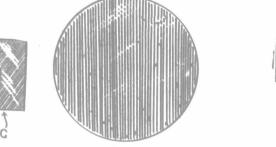


Fig. 1-Parts of Adjustable Bushing Pulley.



#### Homemade Pulleys.

EDITOR "THE FARMER'S ADVOCATE"

Most farm equipment includes that useful piece of machinery, the gas engine. It can be put to many uses. However, on most farms it is put to few uses in comparison to its possibilities. Often by using a little labor, pulleys, belting, etc., the small engine used experience of the small engi clusively for pumping water can be made to run the grindstone, separator, pulper, and so on. This convenience is lost if the engine is not attached to the machines it has power to operate.

To set up a homemade shaft outfit calls for little spare time and less actual cash. It is practically as good as the brand-new, expensive article for light jobs; therefore it is desirable.

Below several styles of home-made pulleys are described. They are thoroughly practical, as the writer has proved to his own satisfaction. There are many more designs, but the following will supply you with

A shows how to cut rim for pulley with adjustable

Board should be as wide as pulley diameter. With compass draw a circle as large as pulley

Saw out with compass saw.

Inside describe another smaller circle, leaving a good space from outside circumference for thickness

4. Mark out two lugs directly opposite each other, as shown in Fig. A. 5. Cut out inside portion.

Cut out as above until a sufficient number have been made to give pulley proper width of face. Cut lugs so that when pulley is assembled the grain will cross; that is, cut lugs with grain one time and across the next. This gives extra strength. B shows arms for same.

Selectaboard a little narrower than width of pulley face and of suitable thickness.

I. Cut long enough to catch on lugs, but loose enough to move in and out freely. 2. Bore a hole in each end, nearer the ends than the centre. Two arms are required.

C sho is bushing for same. Put arms in pulley, one on each side of lugs. Measure exact distance between when on each side of lugs.

Make a block as long as width of arms, wide as distance between arms, and of suitable thickness as

Bore a hole lengthwise through block, oneeigth of an inch smaller than shaft diameter. Saw in half, leaving one half of hole in each part, as shown.

To Assemble Pulley. 1. Nail parts of rim, previously sawn out, together, putting lugs in the same straight line with each other.

Slip rim over shaft. Nail one-half of bushing on each arm equidistant from the ends, being sure to put these on squarely. 4. Put arms in pulley.

Put a bolt of proper size through holes in each end of arms, and tighten enough to be solid.

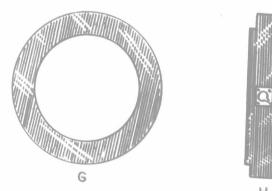


Fig. 3—Parts of Arm Pulley.

6. With a circular plane or key-hole saw put a crown on pulley.

If pulley has been carefully made it will be strong, solid and have a firm grip on shaft.

If pulley grips lugs, but not shaft Reduce width of lugs slightly.

Or, plane a little off inside faces of shaft bushing. If pulley grips shaft, but not lugs, reduce thickness of bushing.

Solid Pulley. D

D shows how to cut rim for solid pulley. Refer to section A, parts 1 and 2. E shows square bushing for same

Shaft should be square for this bushing.

1. Make square hole in sections of rim a little larger than shaft, taking care to have holes exactly in centre of rim section.

F shows key-way bushing for same. Shaft should have key-way for this bushing. Get a flat piece of iron, or steel, and drill hole in it a little larger than shaft. Steel plate should be one-

half an inch thick and of proper size, as shown. 2. Make key-way in plate to correspond with the one on shaft.

#### To Assemble Pulley With Square Bushing.

Nail sections of rim together. Slip pulley on shaft.

Secure with small steel wedges driven between pulley and shaft.

#### With Key-way Bushing.

Nail sections of rim together. Bore hole through pulley, in the centre, a little

larger than shaft. Fit steel plate to pulley, securing it with screws or small bolts.

Slip pulley on shaft.

Drive key home. Finish by crowning pulley in both cases.

#### Arm Pulley.

G shows how to cut rim of arm pulley. Refer to section A, parts 1, 2, 3, and 5. H shows arm and bushing of arm pulley

Fig. 2-Parts of Solid Pulley.



2. Cut tenons of about one-half inch shoulder on arm, as far down as width between outer and inner rim of pulley.

Bushing for same.

Refer to sections E and F.

#### To Assemble Pulley.

1. Lay arm on rim with tenons in proper position for actual use.

2. Cut a piece out of rim to let tenons fit into the space tightly

3. Reduce thickness of tenon to same as that of rim. 4. Build up by laying the rest of sections one on each side and nailing solidly. Repeat until completed.

5. Put crown on pulley.

6. Attach to shaft same as solid pulley.

#### Larger Pulleys.

Slight changes are necessary for larger pulleys.

1. It may be impossible to get boards wide enough for one-piece rims in pulleys of large diameter. If so, lay two boards side by side and fasten so by means of cleats. Saw out same as for one board. Be careful in building up rim to put pieces in their respective places.

2. Large pulleys (those having adjustable bushings) require more bolts in arms. Place two bolts near bushing and one near lugs on each side of shaft.

3. Large pulleys (those having adjustable bushings) require the bushings to be made slightly different, as follows: Bushing must be an inch longer than width of arms, also an inch thicker than is necessary. Lay arm on bushing in same position as it will assume in actual use, leaving one-half inch of bushing on each side of arm. Using this as a guide, cut a groove wide as arm and half an inch deep in bushing. Repeat on the other half of bushing. This prevents side motion of bushing, and is much stronger all through.

4. It is seen that larger pulleys must be stronger throughout than small ones; thicker rims, heavier arms and larger bushings. However, the maker can easily regulate all this.

Perth Co., Ont. CLARENCE BINGHAM.

#### **Battery Queries.**

I have received some good information regarding the management of cars or autos. There is a large battery in hind seat of my car, I don't know what kind of battery it is. I read on one side of it: "everready multiple battery—best for ignition, superior to storage batteries, recommended for automobiles, motor boats and air ships, non-evaporating and water proof". I would like to know if this is a wet battery or if it is likely to need charging this spring. R. T.

Ans.—Your battery is not of the wet type. It is of the style that operates continuously until worn out.

1. Will a 2½ H. P. gasoline engine run a 22-inch circular saw?

Will a 21/2 H. P. gasoline engine saw wood, the wood being from 3 to 8 inches in diameter if fed slowly?

3. Will a 2½ H. P. engine run satisfactorily with-

out batteries but with the magneto alone? Which is the better, batteries or magneto?

Is it needful to have both batteries and magneto? If a 21/2 H. P. gasoline engine will saw light poles for home use, what size of pulleys should I use to obtain

the right amount of speed?
7. Will a 2½ H. P. gasoline engine saw wood such as light sawing, if so what size of pulleys should I use, the wood being from 3 to 8 inches in diameter? Our timber is mostly composed of small poles.

8. What is the difference between coal oil and

Yes. Yes.

The magneto gives a constant spark while the battery spark weakens as the cells become old. The magneto is probably the better.

No. Magnetos have been so improved during recent years that one can start as well off them as off the battery.

6. This question can't be answered definitely, because the enquirer hasn't given the speed of his engine. A 22-inch saw should run about 1,640 r. p. m. To get the proper proportion of the pulleys divide the engine speed into the saw speed. For example, suppose the engine runs at 410 r. p. m.  $1,640 \div 410 = 4$ , hence the engine pulley should be four times as large as the saw pulley. If, however, the engine speed were 328 r. p.m. then  $1,640 \div 328 = 5$  and the engine pulley should be five times as large as that on the saw.

7. A 2 horse power engine is generally considered not large enough for 8-inch poles, but will handle 3 to 6 inch stuff at about 1 to 1½ cords per hour. The saw to use with it should be 20 inches in diameter, and the speed 1,800 r. p. m. The proportion of pulleys should be worked out as explained in No. 6.

8. None. They are the same thing.

W. H. D.

#### Piling on the Load.

Do you realise that a gasoline motor in an automobile does not start under a load, but that to get the machine in motion the load must be piled on the power plant after it commences operation? If you are unfamiliar with the fact it is well in future to bear it in mind because when constantly impressed upon a driver's intelligence it counts for a great deal in economical up-keep as well as the reduction of wear and tear. Because it is impossible to start your motor under a load the power plant is connected to the driving mechanism by an apparatus which is called the clutch. A pedal in the foot board which everyone knows by the name of the "clutch" or the "clutch pedal" controls the clutch and when pressed down takes the load off the motor and by lifting puts it on again. There are three types of clutches in general use, the dry multiple disc, the wet multiple disc and the cone. The dry type is composed of a set of steel plates having faces made of asbestos material. Connections are made alternately to the fly-wheel or to the clutch shaft of the transmission. A spring forces the plates together, when the clutch is engaged, and thus they are made to revolve with the fly-wheel of the motor. The load is taken off the engine when the clutch pedal is pressed down and the plates separated so that they cannot act as a unit. clutch of this type it is folly to ride the pedal, that is to keep your foot constantly upon it. If you persist in doing this the asbestos faces of the plates are bound to wear and very soon the clutch will begin to slip. While your machine is running keep your foot off the clutch pedal and so allow the plates to remain in maximum contact all the time. When a clutch slips you are wasting a lot of gasoline and energy because the power developed by the motor is not being transmitted fully to the rear axle. Perhaps you have experienced clutch difficulties and maybe you remember occasions when the motor has been racing its head off but the car has been moving sluggishly and on some occasions would have difficulty in ascending the smallest hills. The whole fault was due to the fact that the clutch was not in strong enough contact to deliver all the power from the engine through the driving mechanism to the wheels

On the multiple dry disc type adjustment can be made by moving the lock nut or adjusting nut on the clutch release rod to allow more room between the clutch release bearing and the plates. There is a set screw in the rear end of the clutch release rod by means of which the clutch pedal itself car be adjusted. It is well to remember that no oil or gre, se should ever be put on the clutch discs. The clutch itself contains two grease cups which should be looked after every five

In the wet type of clutch the plates run in oil and should you find a slipping, clean out the case very thoroughly with kerosene and put in new oil. The mixture in which the plates work is called an oil bath, and you should prepare it exactly in accordance with the manufacturers' instructions.

We only mentioned one cone clutch but to be absolutely accurate there are two, the leather face which runs dry and the fabric face which operates in an oil bath. The main thing to remember about the dry type is that the leather should always be soft and pliable,

When it becomes dry it has a tendency to grab. Neatsfootoilisa good dressing for the leather as it has proven itself very valuable under all occasions. Castor-oil is also recommended by some people and they have been known to prefer it to Neatsfoot oil. We may also add that Fuller's Earth is spoken of very highly. The fabric face cone clutch must be handled similarly to the wet multiple disc clutch. When it commences to grab remove the oil bath, clean out the receptacle and put in

a new mixture that is, above everything else, clean. Now you know in a general way practically everything about clutches. Furthermore you should not be afraid of them because as you can see there is nothing mysterious or complicated about their operation or maintenance. When your power plant is running nicely let out the clutch very smoothly remembering that as you let it out you are piling a load upon the motor and that the easier you put it on the quieter your moving off will take place. Engines are built of the finest material but if you jerk and jump your car these severe actions cannot fail to ultimately result in damage to your motor. It is also well to know that if for any reason you push down your clutch pedal while skimming along the road that it should be let back as evenly as possible not only for the comfort of the passengers but in order that the strain may be as uniform as possible. Men who are known as skilful drivers and mechanics are usually those who give the most attention and use the most care in the handling of their clutch.

#### THE DAIRY.

Don't neglect the animals that are a little "off" their feed. A good deal of trouble can oftentimes be saved by giving treatment early. Both ends of the animal should

Every dairyman should have a number of good books in his home, and among them should be several on dairying. A dairyman and his family cannot learn too much about the business they are engaged in.

Have you purchased a spring balance and secured a few milk-record sheets yet? Some of your neighbors have and are already enthusiastic over the prospect of knowing their cows by milk and fat production as well as by name.



A Herd of Holsteins Near London, Ont.

Feeders and cattle alike are looking forward to the return of such sammer scenes

With the coming of warm days the cows become more "picky," and greater care must be taken in pre-paring the rations so as to make them appetizing to induce the animals to take a full feed so that production will not suffer.

Goldie's Nehalein Beauty, a four-year-old Jersey heifer of Oregon State, is not only a show animal but a heavy produ er. In two years and two months she gave 27,691.2 pounds of milk and 2,068.15 pounds of butter At 50 cents a pound for butter she returned her owner a good revenue

Between February 1 and 15, 46 Holstein cows and heifers were accepted for entry in the Record of Mesit. There were 22 in the mature class, with Abbekerk Queen Countess, a New Brunswick cow, as the winner, with 30.38 lbs, of butter. In the senior four-year-old class. Daisy Mahone Wayne was first. In the sever days she gave 690.9 lbs. of milk, which made 30.03 lbs. of butter. Ladoga Idaline Mercena headed the jamor tom year-old class. She gave 638.5 lbs. of milk, making 28.49 lbs. of butter. R. K. Augusta was the only senior three-year-old to qualify. Her butter record was 29,71 lbs. In the junior three-year-old class Barkes to Henger. veld May Echo was first. Her butter second was 23.68 lbs. Rose Teake Houwtje was the only senior year-old qualifying. She gave 468.1 lbs, of milk. These were seven junior two-year-olds, and the highest round was made by S. C. M. Leonora Hengeryeld. Her milk record was 444.8 lbs.

#### Managing a Dairy Farm.

Success in dairying depends a good deal on how the farm and herd are managed. Some men appear to have little difficulty in getting ahead while others find it hard to make ends meet under their present system of handling the work. S. G. Carlyle, Superintendent Demonstration Farms of Alberta, gave many practical hints in an address delivered at a recent dairy convention. While Western conditions were discussed, to a certain extent many points were applicable to the Eastern dairymen. The following are excerpts from Mr. Carlyle's address.

In the unusual times in which we find ourselves just now, there is perhaps no line of production placed in such unfavorable condition as dairying. We find that the concentrated feeds, such as bran, oil cake and oat chop, and which are essential to heavy milk production, have doubled in price. The price of labor has not only doubled, but the high-class labor required for the care of a first-class dairy herd is practically impossible to get. To offset these drawbacks we find that the price of dairy products has increased about 30 percent. against grain 150 per cent. and beef and pork more than 100 per cent.; and these products can be placed on the market at a much less laber cost than dairy products, so that the dairy industry has suffered and will continue to suffer until the prices of other commodities are normal again. Managing a dairy successfully at present is no easy task, and certainly the business is not as remunerative as other lines of farming. It may be taken as axiomatic, however, that a man can win in any farm enterprise only by persistent application to a chosen form of work. He can stand the losses of temporary adverse conditions better than he can stand the losses incident to throwing away his experience and learning a new game, and assume that I am talking to a producing group of men who are determined to stick

#### Conditions of Market and Feed.

The important initial consideration in establishing special dairy enterprise is the market and the distance of the farm from railway station. As milk and cream are very perishable products, especially in warm weather, it is necessary that they should be delivered to the consumer or manufacturer in a fresh condition, and this necessitates frequent shipments. If the farm is situated some distance from the city or railway station the time spent in delivery is too great and the cost too high in many cases to show a profit.

Another important general consideration is the character of the soil and climate. Dairy cattle require succulent feed and through the summer months this can be cheaply supplied by luxuriant pastures, either nat-ural or tame. On this account a farm of moderately heavy soil, rich in organic matter, is perferable to light sandy soil. Liberal precipitation of moisture is likewise desir-

#### Pure Water.

To carry on dairy farming successfully it important to select a suitable farm. Perhaps the most important consideration next to good soil is a good water supply. Eightyseven per cent. of milk consists of water, so it is absolutely

necessary for a dairy cow to have a plentiful supply of good pure water. If we can select a farm with a spring of running water near a good building spot, the conditions in this respect are ideal. But if on the other hand a deep expensive well has to be drilled with expensive pump and gasoline engine for driving it, not only does it require a greater outlay at the beginning, but the cost of operating every day throughout the year adds considerably to the cost of producing one hundred pounds of milk. A young man engaged in the dairy industry in this province told me the other day that he had to drill nearly 400 feet for water, and that the well pump and small pumping engine cost him nearly \$1,500, and that it took between three and four hours a day to pump water for his stock. If he could have had a sufficient sapply of water from a spring he could have built a reasonably good dairy stable for the cost of the well.

#### Sunlight, Sanitation and Conveniennce.

After selecting a farm of good rich soil, well watered nd lying reas mably close to market or railway station, These bail lens should be placed near the main road tel as near the centre of the farm as it is possible to act, but always keeping in mind a good elevation, which ssential for dry yards and good drainage from saildings. In the dairy business a great deal of water is tempired for washing utensils, and unless good drainage is provided from the dairy buildings, impurities will som develop which will contaminate the milk. The som develop which will contaminate the milk. clairs building and the ice-house may be built together,

MARCH 28, 1

and should be I about twenty for the barn from turned out. T light, as sunligh of room should and also behind containing two some are 38 or 4 the ceiling requ cubic feet of air After the bi

be laid out, and located as near farming. The d of milk every of compelled to do

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Close Selection

In selecting the when dairy feeds scarce. There n Babcock test wer never a time whe No one can affor producer at prese

No doubt a gr prices, are selling the cows to rustle mistake, for, if o deteriorate, and neglect our dairy and conditions a become as profits the time for the look to the future improve the here buying first-class cheaper to-day th it would be advi first-class herd and

There is a ca of bacon to feed hog raising go with a little shorts makes a feed for upon, so that wit milk utilized in th from the herd and from the business improved conditio pared with the grai

Dairy farming at \$1.00 per bush per ton, and it car \$9.59 per ton. T 20 cents per pour potash. A ton of per ton, and the \$2.56 per ton calc manure put back of the \$2.56. In the depleted in fertili farmers who have

their farms back to This has been d on the soil, but als In Ontario and the chiefly the clovers province these crop fully. The one hop in this country is in of fodder crops, 1 clovers and peas, as shape for the small

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The most comm cut green and know greatly improved by the oats. This ma green oats alone, a leaves the soil in follow, as a certain the roots. ()ats a fodder, but if run t make excellent alfalfa is the great there is none bette in a great many di parts of the province is a splendid fodder number of farmers as pasture for sheep extent for dairy cat flavor imparted to t into the rape directly flavor has not been fully grown in any p asset in supplying months.

Tame grasses su

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and should be located near the dairy barns, preferably about twenty feet distant, and on the opposite side of the barn from the barnyard or where the cows are turned out. The dairy barn should have plenty of light, as sunlight is the great germ destroyer, and plenty of room should be left in front of the cows for feeding, and also behind for cleaning out. The average stable containing two rows of cows is usually 36 feet wide, some are 38 or 40 feet. The wider the stable, the lower the ceiling required. In this cold climate about 576 cubic feet of air space is sufficient for each cow.

After the buildings are arranged the farm should be laid out, and in the farm plan the pasture should be located as near the stable as is consistent with good farming. The dairy cow manufacturing a large amount of milk every day should not travel very far, and if compelled to do so will pay the owner back by a corresponding shrinkage in the milk pail.

In the laying out of the farm and dairy buildings, comfort and convenience should be the two great factors. In order to have the animals do well they must be comfortable, and by having the buildings convenient there is a great saving of labor which will reduce the cost of production.

#### Close Selection to Meet High Cost of Production.

In selecting the cows for the dairy, quality rather than numbers should be considered, especially in these times when dairy feeds are so high in price and labor is so scarce. There never was a time when the scales and Babcock test were so badly needed in the dairy stables; never a time when the herd should be culled 80 closely. No one can afford to feed oat chop and bran to a low producer at present prices.

No doubt a great many people, attracted by the high prices, are selling these expensive grains and leaving the cows to rustle around straw stacks. This is a great mistake, for, if dairy cows are poorly fed they soon deteriorate, and it would be a national calamity to neglect our dairy herds. As soon as the war is over and conditions are normal again, dairy farming will become as profitable as it formerly was. And now is the time for the dairyman to remain steadfast and look to the future rather than the present and start to improve the herd by culling out inferior cows and buying first-class sires. High-class bulls can be bought cheaper to-day than for several years past, and I think it would be advisable to start now and build up a first-class herd and be prepared for after war conditions.

#### The Call for Bacon.

There is a call from the Allies for a great supply of bacon to feed their armies in the field. Dairy and hog raising go well together. The skim-milk mixed with a little shorts or oat chop with the hulls sifted out, makes a feed for young pigs which cannot be improved upon, so that with present prices of butter and skimmilk utilized in this way, and with the poor cows culled from the herd and the rest well fed, a profit can be derived from the business without taking into account the improved condition of the soil on the dairy farm compared with the grain farm.

#### Conserving Fertility.

Dairy farming takes but little from the soil. Wheat at \$1.00 per bushel, the normal price, is worth \$33.22 per ton, and it carries with it elements of fertility worth \$9.59 per ton. This value is calculated on a basis of 20 cents per pound nitrogen and 6 cents per pound potash. A ton of milk at \$1.50 per cwt. is worth \$30.00 per ton, and the elements of fertility are only worth \$2.56 per ton calculated on the same basis, but the manure put back on the farm soil will more than offset the \$2.56. In the older parts of the country and in the older European countries where the land has become depleted in fertility by continued grain growing, the farmers who have engaged in dairying have brought their farms back to their former state of fertility.

This has been done not only by applying the manure on the soil, but also by growing luxuriant fodder crops. In Ontario and the Eastern States these crops comprise chiefly the clovers and corn. In some parts of this province these crops have not as yet been grown successfully. The one hope of profitable farming in the future in this country is in the growing of some kind or kinds of fodder crops, preferably of the legumes, such as clovers and peas, as these crops leave the soil in excellent shape for the small grains to follow next season.

#### Succulent Feed the Year Round.

The most common fodder crop in Alberta is oats cut green and known as green feed. This feed can be greatly improved by sowing one bushel of peas with the oats. This makes a better-balanced ration than green oats alone, as peas are rich in nitrogen, and it leaves the soil in better condition for the crops that follow, as a certain amount of nitrogen is stored up in the roots. Oats and peas not only make good dry fodder, but if run through a blower and put in a silo, make excellent silage. In the irrigated districts alfalfa is the great fodder crop, and needless to say there is none better, especially for the dairy cow; but in a great many districts of the central and northern parts of the province it has not proved a success. Rape is a splendid fodder crop and is being used by a larger number of farmers every year, its great value being as pasture for sheep and hogs. It is used only to a limited extent for dairy cattle on account of the objectionable flavor imparted to the milk, but if the cows are turned into the rape directly after milking for an hour or so the flavor has not been detected. Turnips can be success fully grown in any part of the province and are a good asset in supplying succulent feed through the winter

Tame grasses such as timothy, Western rye grass,

brome grass, and some others, can be grown successfully over a great part of the province, and where well cured make excellent feed in conjunction with green-feed silage and roots. Corn has proved a profitable crop in the southern part of the province, and where put in the silo alone or mixed with green oats, green oats and peas, or alfalfa, makes a splendid succulent feed through the winter months.

#### New Brunswick Farmers' and Dairymen's Convention.

The forty-second annual meeting of the New Brunswick Farmers' and Dairymen's Association opened in Fredericton, March 12, and despite the stormy weather and the difficulties caused by the tie-up of railway facilities as a result of the heavy snowstorms, a large number of farmers from all parts of the province put in an appearance, and the convention may be said to have been of a thoroughly representative character. After the visitors had been formally welcomed to the city by the Mayor, the President of the Association, Isaac Baird, of Chipman, Queen's County, opened the proceedings with a very interesting and instructive address, in which he pointed out that the tiller of the soil was upon looked as the main hope of the country at the present time, and would continue to be so for everal years to come, and he trusted that they would all measure up to the requirements that would be demanded of them. The progress which the agricultural industry had made in the province during the last few years showed very plainly that there was no part of the Dominion offering greater advantages to farmers than did New Brunswick, its nearness to the markets of the Old Country, and those of the United States. also, not being the least of these. The call to farmers to extend their operations and increase their output, was one they could not afford to let go by unheeded; patriotism demanded it of them, and their own interests should induce them all to their utmost. It was a matter for regret that the past season had not been as favorable as they could have wished, but he hoped that none would allow themselves to be discouraged, but that one and all would produce as much as possible in the coming year.

The Hon. J. F. Tweeddale, Minister of Agriculture, dealt with the food question, and the farmers' duty in regard to it. He admitted that it was not very much use to call on tillers of the soil to increase their output unless they could be provided with an adequate supply of help, and to this end leave of absence had been asked for, for those men who had been drafted under the Military Service Act, who had previously worked upon farms. If a farmer needed help to put his crops in and later to harvest them it would be forthcoming. that any man off the street would be satisfactory as farm help, as some people seemed to think, was all nonsense; an inexperienced farm hand was almost worse than no help at all. He, the Minister, wanted to induce farmers to increase their live stock operations. Many men preferred to grow crops that would bring in quick returns, rather than look after stock. This might have been the most profitable course to take down to a few years ago, when the price of meat of all kinds was less than half what it is at the present time; but having regard to the high prices now ruling, and despite the high cost of feeds, live stock must surely pay farmers to produce. The trouble often was that the present high prices tempted farmers to sell young animals that were too good for the butcher, and should be kept for breeding purposes; and if that practice was to continue it would be idle to expect to raise the standard of the stock in might use.

An address from the Provincial Representative of the Food Controller followed, in the course of which the great shortage of food supplies of all kinds was emphasized and the urgent need of greater production pointed

The raising of sheep was dealt with by T. Hetherington, one of the provincial live stock husbandmen, who pointed out that New Brunswick farmers were very much behind their brethren in several of the other provinces in this respect. The dog nuisance could not be relied upon as an excuse, as there was now a law that, properly administered, would put the dog out of business. The majority of districts in the province were ideal for sheep raising, and in view of the demand for mutton for food, and of wool for clothing, it was astonishing that so few farmers cared to go in for sheep. Now that the government had organized facilities for cooperative marketing of wool, and had established stations where it could be graded, farmers should avail themselves of these facilities, and each keep a few sheep at least. With wool at present high prices these who did not keep sheep seemed to be throwing away golden opportunities.

A C. McCullough, the provincial poultryman, was the next speaker, and he put up to the farmers very plainly the opportunities they were missing by not keeping a reasonable number of hens. There was no reason why every farmer should not have at least a hundred hens on his farm, and no stock would give such high returns for the labor involved in looking after it as poultry. Those who did keep poultry in many cases did not take the trouble to look after them properly, and the result was that they did not get the profits they should get, and then they said poultry did not pay.

Prof. Emslie of Ottawa, addressed the members on the fertilizer question, more particularly on the value of lime, and urged them all to make as much use as possible of that mineral, as there were few soils that uld not be considerably improved, and their pro-

ducing power augmented by the use of it. He was followed by Prof. Brownlee of the Dominion Experimental Farm at Fredericton, who gave an instructive account of the experiments he had been carrying on with potatoes at the Farm. Many strain tests had been conducted, and the results fully noted. Similar tests had been carried out by farmers in different parts of the province, and the results compared with those obtained at the Farm, and in several cases the results obtained by the individual farmers were much better than his own. For instance the highest yield of Irish Cobblers obtained at the Farm was 220 bushels per acre, whereas the highest yield obtained by farmers with the same variety was 474 bushels, and the lowest 371 bushels. Better results had been obtained by some farmers with Green Mountains than he had been able to get, the best he could do being 291 bushels, while others had got as much as 350 bushels. The Experimental Farm at Ottawa had been trying Fredericton grown seed in comparison with some of their own, and the results obtained showed the great superiority of the former. For instance. Irish Cobbler, Fredericton seed, yielded 360 bushels to the acre; the Ottawa seed yielded 68 bushels; a difference of 292 bushels. In the case of the Green Mountain octatoes the seed from the Experimental Farm at redericton yielded 345 bushels, while the Ottawa seed rielded 99 bushels, a difference of 246 bushels. In the case of Gold Coin potatoes the Fredericton seed yield was 356 bushels, as against 22 bushels from Ottawa seed.

Prof. Trueman of the Truro College, gave some sound and practical advice on breeding and feeding dairy cattle, and illustrated his remarks by some tables of statistics. He pointed out that farmers should not be disappointed if the offspring of a particularly good cow were not such heavy producers as their dam, for she might be a better producer than the average of her ancestors, and her offspring would simply follow the average. By continually using bulls from heavy producing dams, however, it was possible to raise this average with each generation.

Co-operation was the theme of a stirring address by J. D. McKenna of the Maritime Farmer, Sussex. He told his audience that they had already had some experience of the benefits of co-operative purchasing in the way of fertilizers through their societies, which had, by buying in quantities, been able to supply farmers direct at cost price. They were anxious to extend their operations and increase their efforts and get cheaper feed, but the millers refused to sell feed to the agricultural societies, unless the latter would take flour also, which the farmers did not want. In view of the fact that flour was so badly wanted overseas, it seemed strange that the millers should try to force it on the societies who did not want it, so that they might be able to get feed as well, and he had taken the matter up with the Food Controller, who told him he would scarify" every miller in the country if they refused to change their tactics. As soon as the millers got at the Food Controller, however, that official climbed down, and said the millers were correct in their attitude and he should not interfere. The result was that millfeed could only be bought through the retailer, and the full retail price had to be paid for it.

Prof. Grisdale gave New Brunswick agriculturists some sound advice when he recommended that they go in for growing flax. Some of the best specimens of fibre he had seen he said were grown in this province, and it would certainly pay farmers to put some of their land under that crop. A factory had been established at Ottawa, so farmers were sure of a market for all they can produce. Referring to tractors, he said they were all right for the prairies where the fields were a mile long, but for Eastern Canada, money laid out on A heav less wasted. team of three horses and a double-furrow plough would give the farmers of Eastern Canada far more satisfactory results than any tractor, at less than half the cost. He also advocated larger fields, as the time wasted in turning about the small fields resulted in serious loss. The milking machine he said was an appliance that could be very profitably used by a man having a dozen cows, as it saved a large amount of labor, and proved more of a success on some kinds of cows than hand milking. Healso urged the need of increasing the supply of pork, not only on account of the very remunerative price it is now bringing, but on account, more particularly, of the demand from overseas

Reports from the several county vice-presidents indicated that the past season had been anything but a satisfactory one as a rule. The cold, late spring, with the excess of wet weather that accompanied it, interfered very seriously with seeding operations, and as a rule the crops obtained were inferior in quality and much below the average in yield. Hay was about the only crop that was plentiful but the scarcity of help pre vented many farmers from getting in all they had and a considerable amount was left standing in the fields and was later ploughed under. The area seeded to wheat was larger than for many years, and had the crops been better, would have given very satisfactory results. Oats were a fair crop, a good crop, in fact, on dry and well-drained land; buckwheat almost a total failure. Barley was less grown than formerly, and few farmers seemed to care whether they grew it or not. Potatoes were not up to the average owing to the wet season; turnips were also less than usual, and in some districts owing to the lack of farm help, had to be left in the ground to freeze. In some parts of the province many fields were not seeded to anything on account of the land not being in workable condition through the wet; and in many others the crop sown failed to come up and everything-time, fertilizer, and seed, was wasted.

A visit was as usual paid to the Experimental Farm, three miles below the city, and Superintendent Hubbard,

showed the visitors over the barns pointing out the various objects of interest and explaining the work under way. The cattle, sheep and horses were paraded for the benefit of the visitors, and the successes obtained in the process of grading up a herd by the use of pure-bred sires was brought to their notice. Later, Mr. Hubbard gave a very interesting account of the work of the Farm, and of the heat weatherds adverted for previously and the statement of the work of the Farm, and of the heat weatherds adverted for previously and the statement of the work of the Farm, and of the heat weatherds adverted for previously and the statement of the work of the Farm, and of the heat weatherds adverted for previously and the statement of the work of the Farm, and of the heat weatherds adverted for previously and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the statement of the work of the Farm, and the work of the work of the Farm, and the work of the wo and of the best methods adapted for provincial requirements as shown by results obtained there.

Addresses on Agricultural Societies were given by M. A. McLeod the provincial superintendent, and others, after which the series of resolutions prepared by the resolution committee and others were discussed. These included resolutions asking the Dominion and Provincials governments to protect the farmer by guaranteeing the price for pork for the next two years at not less than 20 cents; also asking for a bonus of 25 per cent. on all gang ploughs purchased, this being considered an aid to greater production; for the passage of a law preventing the running at large of bulls and dogs; in opposition to the Daylight Saving Scheme which they soundly condemned from the farmers' standpoint; asking for severe restrictions on the sale of oleomargarine, in the interests of the dairy industry; and that millers be not permitted to insist on the purchase of flour as a preliminary to the supplying of mill feed. A resolution was also passed condemning the Food Controller for his inactivity in looking after the farmers' interests in this respect. This resolution was, however, later rescinded, on receipt of a telegram from that official that he was taking steps to see that the millers fell in line with the farmers' requests. Another resolution asked for better facilities for giving an agricultural education in rural schools. A motion that in future years part of the proceedings should be carried on in the French language caused rather a heated discussion, but it was ultimately resolved that a certain number of French speakers should give addresses in future.

The officers appointed for the ensuing year were as follows: President, L. M. Anderson, Sackville; Vice-President, J. A. Bernier, Edmundston; Recording Secretary, C. M. Shaw, Hartland; Corresponding Secretary, A. R. Wetmore, Clifton, and Treasurer, H. H. Smith, Hout Station. H. H. Smith, Hoyt Station.

The Provincial Seed Fair reflected the conditions of the past season for the exhibits, although as a rule of good quality, did not measure up to the standard of some former years. The entries, however, were about up to the average.

#### Oxford County Holsteins Make High Average.

The annual spring sale of the Oxford County Holstein Breeders' Club was held at Woodstock, on Wednesday, March 20 The general average for the 70 head catalogued March 20. The general average for the 70 head catalogued was \$181.39. Few sales this year with so large a number of immature animals consigned have reached a much higher figure. The 29 cows three years old and over averaged \$226.55; 10 two-year-old heifers averaged \$189, and 14 heifers under two years averaged \$126.20. The 17 bulls, including a large number of calves, made an average of \$162.35. The grand total for the sale was was \$12.697.50. Lady Veeman Abbekerk, a 28.53-lb, fourwas \$12,697.50. Lady Veeman Abbekerk, a 28.53-lb. fouryear-old of show calibre, and from A. E. Hulet's consign year-old of show calibre, and from A. E. Hulet's consignment, brought the top price going to Wm. Stock & Son, of Tavistock, Ont., for \$525. The same consigner's three-months-old bull calf, Madam's Pauline Sir Abbekerk, made the highest price for bulls, going to the bid of Jas. G. Currie & Son, of Ingersoll, at \$430. The sire of this youngster is Prince Colanthus Abbekerk and his dam is Madam Pauline Canary, a 30-lb. daughter of the champion cow, Madam Posch Pauline. Pioneer Duchess Hartog, a two-year-old heifer consigned by Duchess Hartog, a two-year-old heifer consigned by Sons a few days of freshening and is a sister of the great R. O. P. two-year-old, Duchess Wayne Calamity. She was purchased by W. Cook, of Brantford. Following is a list of the animals selling for \$100 or over, together with the names and addresses of their purchasers:

#### CONSIGNED BY T. J. LAMMIMAN & SON.

3	
King Fayne Albino, A. Pearce, Tillsonburg\$105.00 Lady Jane Clothilde, Wm. Longworth, Ingersoll 120.00 Segis Winnie, W. H. Cohoon, St. Thomas	
CONSIGNED BY FRED V. HEENEY.	
Colantha Vale, A. S. Downham, Thamesford 165.00	
Consigned By Fred Row.	
Mercena Kent Abbekerk, Wm. Copley, Bright 125.00 Bonheur Colantha, J. R. Masters, Woodstock 140.00	
CONSIGNED BY WALBURN RIVERS & SONS.	
Pioneer Gift Mechthilde, J. McWhinney, Marsh-	
ville	
CONSIGNED BY OSWALD WALLACE	
Hiemke Canary Mercena, Geo. H. Cross St.	
Thomas	
Hiemke Calamity Mercena, Alex. Hoyle, Ingersoll 100 00	
CONSIGNED BY JAS. G. CURRIE & SON	

Baldy Midnight Ormsby, J. Davedge, Woodstock 100.00 Princess Pride Ormsby, W. H. Cohoon 210.00

Consigned By Alfalfadale Stock Farm.  King Aaggie Valdessa, G. S. Cuthbert, Woodstock 185.00 Lady Mercena Lindley, W. H. Cohoon
Consigned By A. E. Cornwell.  Bessie Posch Cornelia, F. B. Shaver, Copetown 300.00 Countess Cornelia Mercena, Fred C. Dunseath, Stratford
Consigned By F. W. Lee. Minnie's Butter Baron, John Mansen, Ingersoll 120.00 Lady Fayne of Cedarbrae, E. Sipel, St. Thomas 270.00
Consigned By A. Dunn. Baron Korndyke Segis, A. Small, Putnam
Consigned By Wm. Pullin.  Princess Mary Korndyke, G. W. Montgomery, Woodstock
Consigned By M. McDowell.  Oxford Jewel Segis, John Knox, Plattsville 135.00 Calamity Fayne Segis, W. H. Cohoon 235.00 Oxford Aaggie, R. E. McIntosh, St. Mary's 140.00 Charlotte Ormsby, F. W. Kennedy, Oxford Centre 170.00 Alice Jewel, J. McKay, St. Mary's 205.00
Consigned By W. E. Thomson. Togo Segis Korndyke, D. J. McKay, St. Mary's 145.00
Consigned By A. E. Hulet.  Prince Colantha Sylvia, Geo. Oliver, Bright 185.00  Madam Pauline's Sir Abbekerk, J. C. Currie & Son, Ingersoll 430.00  Lady Keyes Mercena, Robt. Thompson, St. Paul's 450.00  Shadelawn Lassie, J. W. Innis, Woodstock 325.00  Lady Veemen Abbekerk, Wm. Stock & Son Taylone
Consigned By McGhee Bros.  Roderick Mercena, W. E. Phoenin, Wilton Grove 200.00
Consigned By E. D. Hilliker.  Mercena Paul Calamity, W. B. Thornton, Woodstock

Consigned By E. D. Hilliker.  Mercena Paul Calamity, W. B. Thornton, Woodstock  Posch Pietertje Houwtje, G. E. Brown, Dundas.  Jenny Pietertje Houwtje, M. Willis, Grand Prairie Alta	165.00 110.00
Consigned By Chas. N. Hilliker. Lady Abbekerk Faforit, Wm. Duffy, Union Schuiling Canary Mercena, E. Siple, St. Thomas. Queen Abbekerk Faforit, A. B. Shaver, Copetown	200 00
Consigned By B. D. Smith.  Mechthilde Sir Colantha, W. F. Hodges, Woodstock  Cedarbrae Daisy Colantha, M. Willis  May Abbekerk Butter Baroness, Wm. Anderson Beachville	100.00

Centre	240.00
Consigned By M. H. Haley. Esther Butter Baron, Weir Bros., Woodstock Mary Butter Baroness, R. Barnes, Woodstock Silver Fayne Bell, R. E. McIntosh	10000
Consigned By M. L. Haley. Re-Becky Fayne of Cedarbrae, D. J. McKay Daisy Butter Baroness, R. E. McIntosh Pauline Baroness, J. Davedge	
CONSIGNED BY W. M. SNYDER	
Sarah Posch Colantha, R. Day, Thamesford Sylvia Pietje Colantha, J. R. Masters	120,00

CONSIGNED BY GEO. R. McCOMBS.

Shadelawn Lillie Queen, Ross Smith, Oxford

Countess Dutchland Fayne, Wm. Longworth,	
Dot Houwtje, M. Willis	
Consigned By Geo. T. Prouse. Dot's Abbekerk 2nd, J. Mawhinney, Marshville Nell Jean De Kol, R. Barnes, Rose Abbekerk Mercena, Geo. Bishop, Norwich	110.00 125.00 145.00

#### Malton Stock Farm Holstein Sale.

On Tuesday, March 19, C. Slavin, of Malton, held his dispersion sale when a number of high-quality, his dispersion said which a number of nigh-quality, registered Holstein cattle and Clydesdale mares were disposed of. The cows sold had splendid backing and disposed of. The cows sold had splendid backing and would materially aid in building up the herds to which they went. A good deal of the offering was young the 22 cows sold averaged \$186.65, and the two-year-olds, \$140. The calves averaged less than \$40 apiece. The highest-priced animal of the sale was Pietertje bid of D. Aitchison, Elora, for \$275. Following is a list of the animals selling for \$100 or over, together with the of the animals selling for \$100 or over, together with the

names and armesses of their purchasers:	24.40	cir fill
Count Echo Pontiac, C. L. Fraser Manor Segis Pontiac, R. A. Jefferson, Weston, Pietertie Faforit De Kol, D. Aitchison, Elora Bella Wayne Sarcastic, J. C. Heslop, Weston Inka Darkest De Kol, D. Aitchison		217.00

Imperial Inka Josephine, H. Jefferson, Weston \$162.50 Elmbank Faforit, H. Jefferson
Inka Josephine De Kol 2nd A., W. Winters,
Title Too pittic De Noi Alle A II II Inter-
Malton 162.50 Lucila Faforit, J. C. Heslop 150.00 Weston Cornuccia De Kal, W. J. 6 150.00
Weston Cornucopia De Kol, W. J. Sanderson,
WIAILOII
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#### POULTRY.

#### Incubation.

EDITOR "THE FARMER'S ADVOCATE"

The incubator has to-day come to be a necessity on every poultry plant where it is desired to hatch chickens in large numbers. Especially is this true where it is necessary to get early roasters and broilers, as these chicks must be hatched before the usual hatching season and at a time when it is almost impossible to get broody hens. Even if hens could be secured it might not always be convenient to care for a sufficient number of broody hens to get chickens in paying numbers for market purposes.

Whether eggs are incubated in machines or under hens there will always be a percentage of loss, due to chicks dead in the shell or to weak vitality in breeding stock. Beginners very often expect too much of an incubator, and start with the idea that it should hatch better and with less attention than hens will. This is expecting rather much of any machine, for it is hardly to be expected that artificial methods could be an improvement on natural.

Before buying an incubator, become acquainted with the different makes of machines, and if any are used in your neighborhood learn all you can about them and what results they are giving, for in buying hatching machinery the best that can be obtained to do satisfactory work is the cheapest in the end.

In heating the incubator secure a room or cellar where there is not too great a variation in temperature, and at the same time have good ventilation so as to have a supply of fresh air day and night without direct draft on the machine. You will get printed nstructions with each machine which should be care-

fully followed out in regard to setting up, levelling, etc.
In warming up the machine for the first time allow it to heat up gradually, and make sure you have it properly adjusted, the regulator working perfectly and running at an even temperature for a couple of days before you entrust any eggs to it. Excessive heat in the egg chamber will spoil the embyro of an egg more quickly then too love a temperature. quickly than too low a temperature. All eggs for hatching, whether in incubator or under hens, should be as fresh as possible when set, and should be from strong, healthy reeding stock which are and not forced too much for egg production. Select medium-sized eggs that are well shaped and have smooth, strong shells. Eggs for hatching should be kept in a cool day sloop along and if they have been used in sanitary kept in a cool, dry, clean place, and if they have been received from a distance you will get better results by allowing them to settle a day before placing in the incubator. After the eggs are placed in the machine do not touch them until the second day when they will have to be turned twice a day until the 19th day. This can be best accomplished by removing a few eggs from the tray, and with the hands gently rolling the remainder over, then filling in the removed ones in the space left. Always do the turning of the eggs before touching the lamp, as any oil on the hands when turning will affect the hatchability of the eggs. The eggs should be tested about the 7th day to remove all infertiles, and again about the 14th day to remove any dead germs. again about the 14th day to remove any dead germs. It is important that the infertile eggs and dead germs be removed, as they interfere with the uniformity of the temperature in the egg chamber, and so lessen the chances of a good hatch. After the eggs start to hatch the incubator should not be opened until the hatch is over, as the loss of moisture is very detrimental to the hatch. The chicks can be removed to the brooder about 24 to 30 hours after the hatch is completed, during which time the temperature can be gradually lowered a few degrees. The chicks should not be fed until at least 48 hours old as the last stage of development in the embyro is to absorb the yolk of the egg, which is considered food enough for 2 days, and if feed is given before the yolk is used up it will cause serious digestive trouble. You cannot be too careful in keeping the incubator lamp and burner perfectly clean and making sure to use only the best grade of kerosene. After the chicks have been removed from the incubator it should be given a thorough cleaning, and it should be well disinfected with some solution such as creolin or zenoleum before being used for the next hatch or stored away to await next hatching season. Chateauguay Co., Que. J. D. L.

MARCH 28, 191

In

In order to ha that the eggs be in to have the pullet shortage of eggs d go broody early in for the majority o and then become has been proven pullets do not give care to invest in ar from seventy-five Under these circum the early hatch; poultrymen who method is to take custom hatching p as yet, but it is po ber as the deman Revell, is one pour hatching for a cou results. The first to him unsolicited. the capacity of hi did a little advert nearly 2,000 eggs, chine. All told, 12 ing year the incuba customers could n writes: "We were enlarge incubation 75 eggs, and ran th burning 3,931 pour Fifteen hours wee machine and eggs. and called for the into a large plant if at a distance, and day-old chicks." seen that farmers a pay for having the their applications in who had their hatch many winter eggs. neighborhood that only one hatch is b chine would be ava natural method ma incubation there are chief of which is the will go broody. W or artificial method,

#### Young

It is generally coprofitable for egg proa heavy egg yield withey are hatched ear attention, they will be or three-year-old sist shows the profit on birds. This test last The birds were of 1 dozen eggs were laid for feed and labor, t flock, or over \$2 pe 745 dozen the second of \$28. In the third off in eggs, as only 5 even then there was than that from the he figures it is clearly sh she decreases in pro is the aim, then it is to keep the flock up when the egg yield of dispose of the birds. can be kept at high hen ceases to lay in several months before With feed at a high f to keep very many id and one time to do it is be culled in the fall an laying quarters. At t was figured in the illu sixty birds; this is \$1. will cost to properly receipts above the cos ration usually gives s the eggs must be fed. as well as they shou pullets this summer an

A Fam EDITOR "THE FARMER As I send you my a few words to extend valuable articles, which every week of the year a real family necessity many years past and h able, sound information

Wellington Co., Ont

#### Incubating Eggs.

In order to have early chicks, it is almost essential that the eggs be incubated by artificial means. Failure to have the pullets out early in spring is one cause of shortage of eggs during the winter. Sometimes the hens go broody early in the season, but it is more customary for the majority of them to start laying in early spring and then become broody on in May and June. It has been proven conclusively that the late-hatched pullets do not give winter eggs. A good many do not care to invest in an incubator, as they only wish to hatch from seventy-five to one hundred chicks in a season, Under these circumstances there are two ways of securing the early hatch; one is to buy day-old chicks from poultrymen who cater to this trade, while another method is to take the eggs from your own flock to a custom hatching plant. These plants are not numerous as yet, but it is possible that they will increase in number as the demand for this work increases. H. K. Revell, is one poultryman who has been doing custom hatching for a couple of years with very satisfactory results. The first year around 1,500 eggs were brought to him unsolicited. On the strength of this, he increased the capacity of his incubator the following year and did a little advertising. He was forced to turn down nearly 2,000 eggs, owing to lack of capacity in his machine. All told, 12,200 eggs were set. Again the following year the incubator was run to capacity, and many customers could not be accommodated. Mr. Revell "We were taxed to the limit last year and must enlarge incubation capacity. I charged \$2 per tray of 75 eggs, and ran the machine from March 18 to July 8, burning 3,931 pounds of chestnut coal in that time. Fifteen hours weekly were spent looking after the machine and eggs. The customers brought their eggs and called for the chicks. I believe one might work into a large plant if he so desired, doing work for people at a distance, and combining custom work with selling day-old chicks." From the above statement it will be seen that farmers and poultrymen are quite ready to pay for having their eggs hatched. Those who had their applications in early have early chickens, but those who had their hatch come off in July could not expect many winter eggs. There may be incubators in your neighborhood that are not run to capacity. Possibly only one hatch is brought off in a season, and the machine would be available for custom work. While the natural method may be the most reliable one for incubation there are limitations to its efficiency, the chief of which is the uncertainty of the time the hen will go broody. Whether incubation is by the natural or artificial method, try and have the hatch off early.

#### Young Hens Lay Best.

It is generally considered that pullets are the most profitable for egg production, but all pullets do not give a heavy egg yield when prices are high. However, if they are hatched early in the spring and are given proper attention, they will bring in more revenue then their two or three-year-old sisters. The accompanying illustration shows the profit on yearling, two and three-year-old birds. This test lasted for three years with sixty hens. The birds were of high quality as the first year 857 dozen eggs were laid by the sixty birds. After paying for feed and labor, there was a profit of \$124 on the flock, or over \$2 per bird. The egg yield dropped to 745 dozen the second year, leaving a decrease in returns of \$28. In the third year there was a heavy dropping off in eggs, as only 576 dozen eggs were produced, but even then there was a profit, though it was less by \$70 than that from the hens the first year. From the above figures it is clearly shown that as a bird increases in age she decreases in producing value. If egg production is the aim, then it will pay to raise sufficient pullets to keep the flock up to strength. On in the summer when the egg yield drops is as good a time as any to dispose of the birds. By so doing the profit on the flock can be kept at high-water mark. When a yearling hen ceases to lay in midsummer, she must be fed for several months before she will again commence laying. With feed at a high figure a poultryman cannot afford to keep very many idlers in his pen. Culling is essential and one time to do it is at midsummer. The pullets should be culled in the fall and only the best placed in the winter laying quarters. At the time the account of production was figured in the illustration, the feed cost \$90 for the sixty birds; this is \$1.50 per hen, which is less than it will cost to properly feed a bird this season. It is the receipts above the cost of feed which count. A limited ration usually gives small returns. The hens that lay the eggs must be fed. If your fowl haven't been doing as well as they should, plan on raising a number of pullets this summer and get rid of the old birds.

#### A Family Necessity.

EDITOR "THE FARMER'S ADVOCATE":

As I send you my renewal for 1918, I feel I owe you a few words to extend my appreciation of your many valuable articles, which appear in your paper each and every week of the year. It is looked for in the home as a real family necessity. I have been a subscriber for many years past and hope to be favored with its seasonable, sound information for many years to come.

Wellington Co., Ont. ALBERT S. BROWN.

#### Back-door Poultry Keeping as a Profitable Side Line.

EDITOR "THE FARMER'S ADVOCATE":

Now that the greater-production campaign is in full swing, it should apply to the poultry industry as well as others. The question is often asked, does poultry pay? Some claim there is big money in it, while others declare that if all the feed the hens eat were charged up the results would be disappointing. I have often heard farmers' wives boast of how much money they had made the past season from their poultry. When the husband speaks up, "Yes, but if you paid me for the feed you would come out at the small end of the horn." I believe to the women is due the credit of raising ninety per cent. of the poultry and eggs disposed of on our markets to-day; if the men had their way I venture to say that very few hens would be kept on the farm. Ask any farmer if there is money in poultry, and in nine cases out of ten he will say, "Not if you take into consideration the cost of feed." This, of course, is only guess work as with many other departments on the farm, no record is kept. The farmer raises the grain and feeds the fowl, the good wife markets the product and takes care of the money, and the poor farmer naturally enough thinks there is no money in keeping poultry. The only way to decide this question properly is to test it out thoroughly by keeping an accurate account of all receipts and expenditures for the year. I have always kept a few hens, when so situated that I could, but like many others was never able to tell with any degree of certainty whether the feed or the eggs and chickens cost the most. Last year I kept strict account, and for the benefit of those who contemplate going into back-yard poultry keeping, my experience may be of some interest

On January 1, 1917, I started with eighteen White Wyandottes—sixteen females and two males. I keep nothing but White Wyandottes, and my experience is that they are decidedly the best general-purpose fowl in existence. At all the laying tests they have proved themselves the champions, and as broilers or market fowl they can't be excelled. Some time in February I sold a friend two pullets, leaving fourteen. During the summer we lost four hens-one stole her nest away under some boards, and when we missed her and due search was made for the body we found her dead on the nest; one got sick and died, and the other two died just because they wanted to, for I could find no symptoms of any disease. I paid \$10 for an incubator and \$10 for a

spending \$10 for an almost worthless incubator that spoiled half the eggs, we could have made a much better showing on the right side of the ledger. Of course, my fowls are all pure-breds. "Oh, yes," some will say, "yours are pure-breds, but we could not get such prices for common mongrels." I admit it, but why keep mongrels? It costs no more to feed pure-breds than it does culls, and you can always sell your sells and you can always sell your sells. does culls, and you can always sell your surplus stock at good prices. The proof of the pudding is in the eating.

#### Receipts. Eggs sold for hatching..... Eggs used and sold for market. \$205.27 Expenditures. Stock on hand Jan. 1, 1917, 18 fowls......\$18.00 Advertising eggs and fowls Coal oil for incubator..... Incubator... Breeding cockerel....

The net profit was \$60.84, on an investment of \$18, being 338 per cent., or a net profit of \$3.38 per head, including the males. To take the average number of hens for the year as thirteen, which would be the maximum, this would show a net profit of \$4.68 per hen. All feed was valued at market price. If anyone can show up a business that will give better returns on the investment than this, I will be willing to quit poultry

keeping and go at it. Middlesex Co., Ont. R. J. GRACEY.

#### HOR TICULTURE.

#### The Fruit Marketing Question Again.

At a meeting of the Niagara Fruit Growers, held at Grimsby, Ont., late in February, P. J. Carey, Western

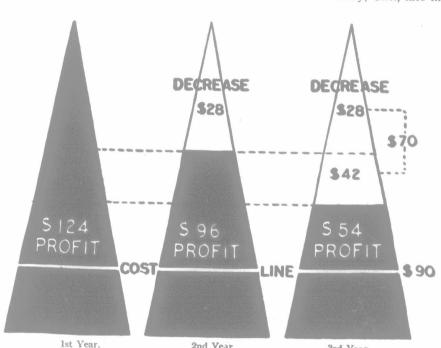
Ontario representative of the Dominion Fruit Branch. discussed fruit marketing as it applied to present conditions. True, this is a subject which has been well threshed out from time to time; but as every season approaches, growers become interested in marketing methods and look about for ways and means of improving their methods of selling and distributing. The speaker discussed marketing from two angles and said:

"The methods of selling the packed fruit can now be reduced to practically two, namely, shipping to the commission man and selling locally at stations. Both ways, no doubt, have many good things to be said in their favor but they are faulty in some respects, of course. Speaking for the commission men as a whole, I can testify that in most cases there seems to be a desire on their part to handle the fruit to the very best advantage, and I believe,

generally speaking, the growers receive fair and honest treatment. I desire, however, to mention one fault that is apparent among the commission men. Where there happens to be a scarcity of fruit on offer, or, say, at the time when the new fruit is first making its appearance on the market, they are apt to take advantage of the scarcity and jump the prices out of sight, regardless of the quality of the fruit, and the retail man finds that he has paid an exorbitant price for what is little better than trash, and while he is laboring hard to sell without a loss, the fruit goes into decay. in my judgment could be further from right than this method of selling. The retail man who has been bitten goes back determined to buy safe next time, and the consumer who finds that he has paid an extremely high price for an inferior article, is not too ready to repeat his purchase

Many things can be said in favor of local buying at stations. The competition between buyers should make it possible for the grower to get the last cent for his fruit. This method of marketing, too, tends to distribute the fruit over a larger area, on account of the many buyers who are anxious to do business. There is one fault, however, with this method of marketing, and that is the grower loses his identity, and consequently takes no responsibility for a faulty pack, or loses interest in growing fruit of good quality.

'In the apple district north of the Lake, we found that where f. o. b. sales were effected and prices fixed, the packers lost interest in the pack, and in such cases the standard of pack was lowered. This seems to be one of the weaknesses of human nature, from which few of us



2nd Year. 3rd Year. Young Hens Give Heaviest Production. (From I. H. C. Bulletin.)

cockerel to mate my pens, and these two items alone assisted materially in raising the expense bill. The highest price we got for market eggs was 60 cents per dozen, and the lowest was 35 cents. The highest figure we asked for breeding fowls was \$5, and the lowest was \$2. For the culls that were used and went to market the price was 20 cents per pound live weight, and the eggs used in the house were credited at the market value at the time. I bought an incubator for we can never get our hens to sit early enough to hatch early pullets. like to have pullets hatched not later than April for the next winter's layers. This incubator had a guarantee as long as your arm, guaranteeing to hatch a chick from everything you put into it, even snowballs. I tried the first hatch myself, with poor success. The boy thought he knew more about running an incubator than I did, so he took control of the next hatch, with no better results. Then Mrs. G. said that neither one of us knew anything about running an incubator, and she took charge of the next hatch and the results were no better. We set four times-50 eggs each time-and although ninety-five per cent. of the eggs were fertile the very best results that our combined skill could extract from this wonderful machine was forty per cent. of the fertile eggs. To prove that the fault was not with the eggs, we set the first hen that wanted to sit about January 1 and she hatched a chick from every egg. We hatched 80 chicks, and one day two worthless hounds broke into the yard, and before Mr. G. noticed them they had killed ten chicks and a kitten, which the children prized more highly than all the chickens. I am merely stating this to show that if it had not been for the dogs and

are free. The grower too who counts on selling locally is not so apt to care for his orchard in order to raise the best quality of fruit. This latter weakness on the part of the grower is intensified by the fact that the buyers fix each day a flat price to all for a certain kind of fruit regardless of quality

"If the buyers had the courage to discriminate sharply in prices according to quality of fruit, it would tend to raise the standard all round.

"The shipping of peaches by carloads to different points of distribution should be encouraged. I know of no better way of marketing the fruit crop. There are thousands within shipping distance who never have an opporutnity of securing a basket of our peaches. Distribution of fruit is the secret and I think the consumption could be almost doubled if special effort were made by the associations and dealers in having representa-tives at the different points to distribute car lots of fruit."

#### Keep the Peach Trees Free From Leaf Curl.

In the past peach leaf curl has defoliated whole orchards, and it has even been so severe as to depopularize peach production in various districts for a number of years. A dry, sunshiny spring is seldom accompanied by any severe visitations of leaf curl, whereas cold, wet, backward seasons usually see this disease quite prevalent. For this reason growers have sometimes thought that leaf curl on peach trees was due to climatic conditions, but the fact has been amply demonstrated that peach leaf curl is a fungous disease and weather conditions either promote or prevent its spread, depend-ing on whether the season is wet and cold, or dry and

When a tree is affected the leaves become distorted, curled, thickened and yellowish-white, pinkish, or purplish in color. These symptoms are first noted when the leaves begin to expand in the spring. However, a little later in the season it will be observed that they turn brown and fall. The disease may even spread from the leaves into the shoots and destroy them. In severe attacks the trees are frequently almost completely defoliated, the fruit is stunted or drops to the ground, and the vitality of the tree is very much impaired. Such an attack prevents the development of fruit buds even should the tree survive the cold of the following winter. Peach leaf curl is always more severe in cold, wet springs.

Prevention in this case has its proverbial value. Spray with lime-sulphur with a strength of 1.035, or 1 gallon of commercial lime-sulphur to 7 gallons of water. This should be done early in the spring before the buds have started to swell, and care must be taken to see that every bud is thoroughly covered. Somewhat weaker solutions of lime-sulphur or Bordeaux mixture will prevent the leaf curl, but will not kill San José scale, which is apt to be found wherever peaches are grown. Experts, therefore, deem it advisable to use the strong solution of lime-sulphur as previously recommended.

#### Drive Out the San Jose Scale.

If the San José scale has made it s appearance in the orchard, or has become an unwelcome visitor in the community, do not neglect to spray well with lime-sulphur before life has become too far advanced in the trees. The dormant spray should be applied with a vengeance, as that is—the only way of holding San Jose in check. The standard strength for combatting this scale is 1.035 specific gravity, or, in other words, 1 gallon of commercial lime-sulphur to 7 gallons of water. When applying this mixture, bear in mind the following points of advice given by Prof. Lawson Caesar

1. Do not spray when the trees are wet; this weakens the wash

2. Do not spray just before a rain because the rain will rapidly wash the mixture off, unless it has first become thoroughly dry.

3. Do not spray when the thermometer is at or below freezing point. The mixture does not seem to get into contact with the insects so well as in warm

4. If possible, start soon enough to finish by the time the buds are bursting; if not through then and the scale is abundant, spray ahead at the regular strength until all the trees are done. Often no damage to leaves will follow. In any case the spray will do less injury than the scale

Test the strength of the lime-sulphur with a hydrometer. It is the only business-like way where concentrated lime-sulphur is used.

6. Take advantage of the wind.

is often helpful, especially for large trees

7. Do not be stingy with the material. Cover every inch from the base of the trunk to the topmost twig Remember a single female missed may mean 1,000,000 by the end of the season. It may take eight gallons or more for a large tree, but only thoroughness will pay.

8. A good gasoline out it is very much quicket and more satisfactory than a hand pump for large old orchards, but good work can be done with a hand pump

9. Keep the spray machine in good repair. Pump clean water through it every night and take off the nozzles to prevent their getting set. It will save much lost time. A circular piece of leather, 3 inches in diameter, placed at the base of the nozzles will largely prevent the mixture running down the rod and wetting the hands 10. Use gloves to save the hands.

11. Try to supervise all the spraying yourself, or put it in charge of your best man,

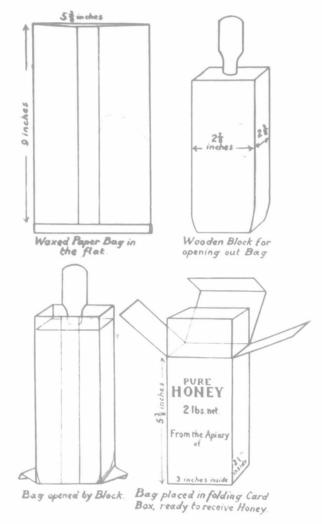
#### THE APIARY.

#### Paper Containers for Honey.

EDITOR "THE FARMER'S ADVOCATE":

In consequence of the high price of tin pails and glass jars an experiment in designing paper containers for granulated honey was commenced in February 1917 the Central Experimental Farm, Ottawa. Nearly all kinds of honey produced in Canada will granulate hard 6 to 8 weeks after extraction, and in this form they can be conveniently distributed in small quantities in attractive inexpensive containers made of paper

The most promising result has been obtained by pouring the honey when commencing to granulate into bags made of white bond paper, water-proofed with paraffin wax, the bags having been previously opened out on a wooden block and placed in attractive rectangular cartons, printed in one color. Two sizes of containers have been tried, one holding 2 pounds of honey, the other 5-pounds. To prevent bulging, the containers when filled were wedged in a box or frame, but it seems that it would be better to pack them before filling in the boxes in which they are to be shipped and to add small amounts of honey to each by means of a narrow spouted jug and spoon until all are filled. In this way the containers would be handled only once. A convenient size of shipping box would be one made to hold 60 pounds, that is thirty 2-pound containers in 5 rows of six, or twelve 5-pound in 3 rows of four, the box to be made % of an inch deeper, longer and wider than the carton content to take corrugated paper or other wrapping. By using an extension 4 to 5 inches deep and the



same length and width as the boxes, the boxes may be tiered on one another to stand while the honey is granulating. White honey gathered at Ottawa, poured into the bags while thickening on September 20, was perfectly hard and fit for shipment on October 30. The packages seemed to be appreciated by housekeepers the paper being easily peeled off the honey. The bags that had their bottoms folded three times and not sealed were more satisfactory than those with sealed bottoms, because it was found that they were less liable to tear when opened on the block. Leaking was practically eliminated when the bags in the cartons were filled with thickening honey and were packed at once in the box.

The inside dimensions of the 5-pound carton were 4 inches wide by 3 inches thick by 814 inches high. The bag to go inside this was made in the form of a tube 67% inches wide, and 1412 inches long with 3 folds reducing inches wide, and 1422 inches long with 5 longs requeing it to 12 inches long. The 2-pound carton was 3 inches wide by  $2^{4}_{2}$  inches thick by  $5^{3}_{8}$  inches high inside. The bag to go inside this was  $5^{3}_{8}$  inches wide, 11 inches long with three folds reducing it to 812 inches long

The cost of the 5 pound carrons printed, was \$12 per thousand, and the bags for them \$12 per thousand, total 821 per thousand. The cost of the 2 pound cartons printed was \$8 per thousand, and the bags for them \$8, total \$16 per thousand. 5-pound tin pails cost, litho-graphed, 89 per hundred, plain 88 per hundred, and pound pails, litographed cost 86 per hundred, all b. Montreal, in January, 1917. There is therefore very considerable saying in the use of cartons, both in in outlay to the bee-keeper and in cost of honey to the purchaser. Indeed, the saving is somewhat more than the above figures would indicate, because the

lighter weight and bulk of the cartons and bags, which are supplied in the flat, reduces the cost of the freight compared with pails and glass jars. Against this saving must be placed the extra time taken in opening and filling the paper bags and cartons. The price of pails and cartons has advanced during the year and in Dec. 1917, lithographed 5-lb. pails are being quoted at \$12.50 per 100, and the 5-lb. card cartons at \$18 per

Dominion Experimental Farms.

F. W. L. SLADEN.

#### FARM BULLETIN.

#### The Bender Holstein Dispersal.

The public dispersion sale of pure-bred Holstein-Friesian cattle held by N. S. Bender, Tavistock, Ont., on March 19, was one of the most successful of the season. The cattle were taken mostly by Mr. Bender's neighbors who knew the offering and appreciated them. Bonnie Lyons Colantha, a heifer which, as a senior wo-year-old, milked 61 lbs. a day, and out of a good dam, realized \$425. The majority of the offering were sired by King Lyons Hengerveld and King Lyons Colantha. Following is a list of the animals selling for \$100 or over, with the names of their purchasers.

#### Females.

Bonnie Lyons Colantha, John Morgenroth, Tavistock Home Farm Pearl DeWitt, Jesse Looker, Mitchell 195.00 Home Farm Annie DeWitt, Allan Bean, Maple-

Belle Lyons Colantha, A. C. Hallman, Breslau Bonnie Lady Hengerveld, H. Purcill, Listowel. 170,00 190.00 Lilly Colantha Veeman, Wesley Heinbuch, Tavi-182.50

Home Farm Minnie Lyons, Jesse Looker 200,00
Bessie Lyons Colantha, J. C. Kaufman, Tavistock 180,00
May Hengerveld Veeman, Wm. Stock, Tavistock. 100,00
Home Farm Katie Lyons, Wm. Stock 130,00
Veeman Beauty Queen, Allan Bean 195,00
Patsy Colantha Faforit, Jacob Mogk, Tavistock 175,00
Home Farm Queen Hengerveld, H. F. Edworthy,
Waterdown 135,00 Waterdown

Home Farm Lydia Hengerveld, Wesley Heinbuch 150.00 Home Farm Colantha DeWitt, John Morganroth 285.00 Graceland Pussie Lyons, Bert Leuzler, Bright... Home Farm May Lyons, Wm. Stock. Jennie Lyons Abbekerk, Jesse Looker. 150.00 117.00 illy Lyons Greenwood, John Morgenroth. 165.00 Patsy Hengerveld, Wm. Stock 125.00 Home Farm Patsy Lyons, Fred Stock, Tavistock . 120.00

#### Males.

Korndyke King Colantha, John Masters, Woodstock Colantha Hengerveld Lyons, Wm. Kaufman, .....135.00

#### Mr. Parsons Replies.

EDITOR "THE FARMER'S ADVOCATE"

Someone has been good enough to send me a clipping from your paper dated March 14th in which a Mr. 1. T. Lennox attempts to criticize some statements I made in an address recently delivered before the Canadian Club of Orillia. Mr. Lennox surely wilfully misrepresents my entire attitude. In that address I tried to show that producers of all classes should stand My whole though was to make it appear that all producers were doing fairly well at the present time and that they ought to have more confidence in and goodwill toward each other.

I pointed out that in the case of the Grain Growers Grain Company and their associated companies (the three of which had been amalgamated according to newspaper reports) the total profits of the three concerns had amounted to over \$1,800,000 on a capital, it was stated, of \$2,000,000, which is equal to ninety per cent. profit. I also noted the well-known case of a certain packing house that was said to have made eighty per cent, profits on its capital. It must be remembered, however, that I made clear that these instances of making enormous profits on capital were altogether extraordinary and that neither in agriculture nor in manufacturing were large profits the rule but rather the exception. Notwithstanding Mr. Lennox's denial of the profits of the Grain Growers' Grain Company and associated companies, I must surely take the printed statements as given in the newspapers unless same are officially corrected. I may also state that I can furnish proof of the case I mentioned of the farme being unwilling to purchase a buggy with one hundred bushels of wheat as his father had done in earlier years.

Mr. Lennox makes a statement as follows:years ago the Secretary of the Manufacturers' Association stated in Winnipeg that they were two thousand five hundred strong, were like a young giant and did not know their own strength, and could paralyze the trade of the Dominion and bring seven million people to the verge of starvation." Now, if Mr. Lennox will bring proof of this statement, which I have never heard of previously, I will agree to devote one hundred dollars to any charitable institution that the Editor of The Farmer's Advocate may select

Let me add a further well-known fact, among those who have had to consider national affairs in a large way, that if it had not been for the manufacturing industries of this country during the period of the war, Canada would have been bankrupt to-day. The time

of our great na each other to the It may surp Chairman of a thousands of mer plants of Ontari spared, in order in many cases th wages rather than nered. This is a

season.

MARCH 28, 1

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our war burdens

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cannot prosper.

President C

Oak Grov

Moderately go sale conducted Hawkesville, On the animals selli names of the purc Eliza Broadhooks May Broadhooks Lady Rosamond, Red Ribbon, G. Morning Rose, W Miss Abbott, Joh Meg Sultana, S. Sultana Broadho Rettie Broadhool Princess Rettie 2 Good Rose, Andr Princess Rettie, I Morning Lassie, G. Scotch Rettie, G. Morning Gold, Ja Sultah Britanian Gold, Ja Scotch Princess, C Retana, G. E. Mc Cataliza, G. E. M. Morning Beauty, Bullrush, C. C. D Red Scotch, Russ Red Morning, G. Royal Diamond,

Thinks Far

Own EDITOR "THE FAI

I have seen of Advocate" re gar perience in thr bute to the discus outfit for six ye would be sufficien running with an or gasoline. A sunless wood and

would use from 10 Gasoline, 10 gal. a Cylinder and mac Fecder.

Bagger. Mow or stack men Straw man Grain carriers each Extra man for p carrying bags.

The thresherme kinds of grain, fu expense for runn bushels per day.

A thresher req breakages and lost high. Men would ne furnishes the help

to their work again The thresher put up with good of his charges and

dollars for his outf Farmers in Or pay any one ma average farmer a move every day to pay the cash or strange men, and sleeping in a for night late in the fa

I suggest that select a threshing machinists in the not be more than keep it in good y Each farmer shou threshing and the

Stormont Co.,

The Daylight Saving Bill. EDITOR "THE FARMER'S ADVOCATE":

Considerable interest has been taken by the pressin the proposed Daylight Saving Bill. Last year a Bill to this effect was brought before parliament, and, after some discussion when a good deal of fun was made of it,

upon which all the rest of the country must depend. If they are prosperous well and good, but if not others cannot prosper. A large study and broader outlook of our great national questions will lead us to esteem each other to the fullest possible extent. It may surprise Mr. Lennox to know that I was Chairman of a committee last summer that furnished thousands of men to the farmers from the manufacturing plants of Ontario, at a time when they could be badly spared, in order to help reap the harvest; further, that in many cases the manufacturers paid the difference in wages rather than that there should be crops not garnered. This is also to be our program for the coming

S. R. PARSONS, President Canadian Manufacturers' Association.

has come when great national interests must be con-

sidered first and foremost of all and all our petty, foolish,

sectional, and selfish considerations give way to large questions and policies that alone will enable us to bear

our war burdens and fulfil our destiny as a nation. Surely we cannot afford to be fighting with each other. I do not believe for one moment that either the agriculturists of this country or the manufacturers have any grudge against each other. These are the two great interests upon which all the rest of the country must depend.

#### Oak Grove Farm Shorthorn Sale.

Moderately good prices were realized at the Shorthorn sale conducted by L. K. Weber, Oak Grove Farm, Hawkesville, Ont., on March 7. Following is a list of the animals selling for \$100 or over, together with the names of the purchasers.

names of the parenasers.		
Eliza Broadhooks, Wm. Moore, Aberfoyle		\$258
May Broadhooks, G. E. Morden, Oakville		-225
Lady Rosamond, John Stevens, Bornholm		200
Red Ribbon, G. E. Moore, Oakville		290
Morning Rose, Wm. Moore		300
Miss Abbott, John Stevens		215
Meg Sultana, S. H. Pugh, Milverton		210
Sultana Broadhooks, G. E. More		300
Rettie Broadhooks, G. E. More		205
Princess Rettie 2nd, P. J. McLean, Puslinch		265
Good Rose, Andrew Knox, Norwood		200
Princess Rettie, P. J. McLean		305
Morning Lassie, S. Smith, Aberfoyle	1.4	155
Scotch Rettie, G. E. More		225
Morning Gold, Jas. Douglas, Caledonia		200
Sultana Beauty, Wm. Moore		195
Scotch Princess, G. E. Morden	1	105
Retana, G. E. Morden		150
Cataliza, G. E. Morden		105
Morning Beauty, Jacob Lerch, Preston		225
Bullrush, C. C. Diefenbacher, Wallenstein	,	225
Red Scotch, Russel Johnson, Britton		
Red Morning, G. E. Morden		
Royal Diamond, Jas. Douglas		1()()

#### Thinks Farmers Should Own Their Own Threshing Outfits.

EDITOR "THE FARMER'S ADVOCATE"

I have seen opinions expressed in "The Farmer's Advocate" re gang threshing and as I have some experience in threshing I thought I would contribute to the discussion. I have been running a threshing outfit for six years and farming also. Eight men would be sufficient for a No. 3 separator of any kind running with an 8 to 12 horse power engine—coal oil or gasoline. A steam outfit would require 10 men unless wood and water were provided. This outfit would use from 10 to 12 gallons gasoline per 10-hour day.

Gasoline, 10 gal. at 40c.		\$4.00	ner day
Cyanger and machine oil		1.5	11
r ecder		2.00	
Dagger		1.00	4.4
MOW of stack men (two)		3.00	4.4
Straw man		9.00	4.4
Orain carriers each \$1.50		3 00	4.4
Extra man for putting on oat move	or		
carrying bags		1.50	4.4

The threshermen here are charging 8c, a bag for all kinds of grain, furnishing two men with the mill and expense for running it, and average 400 bags or 800 bushels per day.

A thresher requires a fair price as he must stand, breakages and lost time and men are scarce and living

Men would not stand for lost time. If the farmer furnishes the help, in case of a break the men go back to their work again.

The thresher has to stand lost time, breakage and put up with good and bad grain and take his living out of his charges and pay from twelve to sixteen hundred dollars for his outfit ready to thresh.

Farmers in Ontario do not thresh enough grain to pay any one man to go out gang threshing as the average farmer has about 500 bushels which means a move every day. The majority of farmers do not like to pay the cash out for the help at threshing and board strange men, and the working men do not care about sleeping in a four-wheeled cabin on a rainy or cold night late in the fall.

I suggest that six or eight farmers go together and select a threshing outfit and appoint two of the best machinists in their number to run it, as there must not be more than two men to handle this machine to keep it in good working order and to understand it. Each farmer should buy gasoline and oil for his own threshing and the gang stand repair and breakage. Stormont Co., Ont.

LINDSAY DOREE.

and some of the Western members said they had daylight to burn, the bill was very properly thrown out This year because they expect to adopt it in the United States some think Canada should do the same. It is easily seen that the author of the Bill is not a farmer, nor does he understand farm conditions, this year, especially, when the farmer is asked to produce all he can to help win the war, and to keep the people from starving. Is the way to do it to take an hour off the best part of the day? From five to six o'clock in the evening is worth two hours in the morning, especially, the hours in the morning to the heavy during haying and harvesting, as owing to the heavy dews with which we are favored in our fine Canadian summer climate, it is too damp to do much before nine o'clock. Of course some people think that the farmer is a law unto himself and can make hours to suit conditions. Forty years ago if this Bill had been passed it would not have done the farmer any harm. At that time the farmer worked from sunrise to sunset, having tea between four and five in the afternoon. conditions are changed and the modern farmer works on the ten-hour system as nearly as he can. When spring opens up, say April 1, he gets up between 5 and 5.30. By the time the stock is attended to and breakfast over, he tries to get to the field about 7. With an hour and a half off at noon he works till six o'clock, being about nine and a half hours in the field. In the beginning of April the sun rises about 5.30 and sets about 6.30. In September conditions are about the same. What better time could we have? If the clocks are put on an hour as the Daylight Bill proposes, the farmer, to have the same length of day would be up before the sun, just when he is enjoying his nap, or lying awake planning the work for the day. He would not get up any earlier than he does now so consequently he would get about 8½ hours in the field before six o'clock, when the day would be finished as the farmer cannot be expected to me any working and his town, and city by there pected to go on working and his town and city brothers and sisters enjoying themselves. Standard time cannot be improved upon for the farmer. If the town or city dwellers wish to start work an hour earlier than they do, if they are in favor of it, it could easily be arranged at the factories, shops, etc., without changing the time of the Dominion. It is most absurd, and we trust that farmers will bring their views before their representatives so that when the Bill comes before the House it will receive a speedy exit. I hope I have not trespassed too far on your valuable space. We consider "The Farmer's Advocate" the best farm paper published in the Dominion and no farmer can afford to do without it. Simcoe Co., Ont. D. W. LENNOX.

#### Montreal District Milk Shippers Meet.

EDITOR "THE FARMER'S ADVOCATE":
The Milk Shippers Association, District of Montreal
met in that city, March 19. It was decided that the
price of milk to the dealers in the city this summer would be 30 cents per gallon, increasing to 32 cents for the month of September. The price for last October, November and December was 30 cents per gallon, increasing to 32 cents on the first of January, so that it it is practically a mid-winter price that will prevail during the summer, in place of the usual reduction of four or more cents per gallon.

F. Stephen, who has been secretary of the sociation for 17 years is now retiring from office on

cost of feeds, cows and labor, he claimed, had not been met with a corresponding increase in milk prices. Not-withstanding the difficulties under which the milk producers were laboring, they would stick to the business as a patriotic duty, if they could only get sufficient remuneration that would allow them a decent wage. As it was, many of the milk shippers were not earning anything on their investments,

There was more profit in raising beef cattle, sheep or pigs, said Mr. Stephen. There were also serious obstacles aside from the matter of profit. The shortage of feed in the districts supplying Montreal with milk had been so great that farmers were feeding their seed grain to the cattle, depending on securing their seed from the West later. This was a perilous situation as there was a general shortage of seed grain.

Montrealers, Mr. Stephen contended, were getting their milk at a lower rate than in most parts of the American continent. Fourteen to sixteen cents a quart were the common prices in most American cities at present. Evidence of the trouble that dairy farmers were having lay in the fact that they were being compelled to pay less attention to the dairy and more to the more profitable branches of agriculture in order to make ends meet. As a result, he expected a distinct decrease in the supply of milk to be forwarded to Montreal this summer. The farmers were not to blame. They were the butt of circumstances over which they had no

James Winter of Ormstown was elected secretary of the association in the place of Mr. Stephen, concerning whom a resolution was passed in appreciation of his long and faithful services. Other officers elected were: President, H. S. Tannahill, Huntingdon; 1st Vice-President, Paul Denis, Como; 2nd Vice-President, David Black, Lachute.

#### The Shorthorn Sale at Kirkton.

At the sale of pure-breds, held by A. N. Watson, Kirkton, on February 19, the following named Shorthorns sold for \$100 or over. The names of the purchasers are also given

330
180
302
225
235
225
200
175
175
175
130
200
140
180
140

#### An Old Envelope.

A communication was recently received at this office in a Farmer's Advocate return envelope sent out to the subscriber in 1883, thirty-five years ago. Many of these among our oldest readers will remember the old illustrated envelope with its horse, cow, poultry, farm produce and the home life scene. The Farmer's Advocate counts among its subscribers many who have taken the paper more than three decades, some over account of pressure of other business. The increased four decades and a few over a half century.



Nature's Beauty Returning.

# Toronto, Montreal, Buffalo, and Other Leading Markets

Week	Ending	March	21.
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#### Receipts and Market Tops.

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Dominion Orock Bras	Department of A	Agriculture, Li	

CALVES Top Price Good Calves.	Receipts	R		CATTLE Week Week Ending Ending	Same Week	Week Ending		
Week Week Same Week Ending Week Ending Week Ending	Week End	Ending	p Price Good Steers	Mar. 14 Mar. 21 Top	1917 Receipts	Mar. 21		Toronto (Halas Va. A.M. A.
891 817.25 814.50 817.00	908 8 1,370 1,1	1,181 1,324	811 75 812 00 11 35 12 00	4,199 \$12.50 - 491 12.50 359 12.50	3,718 433 733	6,081 553 332		Montreal (Pt. St. Charles) Montreal (East End)
61 16.00 11 00 14.00		49	10 50 12 50	1,623 12.75 1,552 11.35	3,313 932	2.350 1,833		Winnipag
				Hoce				
Top Price Good Lambs.	Receipts		to the second		Donales			
Week Week Same Week	Same Wee	Week :	Top Price Selects			Wook		
Ending Ending Week Ending	Week Endi	Ending \	Same Week					
The state of the s	1917 Mar.	Mar. 21	Week Ending					
AUDE CONTROL OF THE CONTROL OF			l 1917 Mar. 14					Toronto (Union Stock Varda)
10 00								Montreal (Pt. St. Charles)
				1,568 21.25				Montreal (Fast End)
00 00				455 21.25		40 40 40		All/inn an i an ar
				6,168 20.00				Calman
10.00				3,731 19.25	5,709			NOTE -The total of the to-
ale. Any variations from this will be	offered for sale.	actual receipts offer	it, to 5 per cent, of the	ry from 1 per cent	yard will v	each stock	stock at e	noted,
Ending Ending Week End Mar. 14 Mar. 21 1917 Mar. 891 \$17.25 \$14.50 \$17.166 .15.00 12.50 .16.589 15.00 12.50 16.61 16.00 11.00 14.  SHEEP  Top Price Good Lambs. Week Same Week Ending Ending Week End Mar. 21 Mar. 21 1917 Mar. 425 \$20.70 \$15.25 \$19. 43 17.00 14.50 17. 35 17.00 14.50 .17. 33 20.00 12.50 17. 142 13.00	Week End 1917 Mar. 908 1,370 1,1 1,553 5  Receipts Same Week Endi 1917 Mar. 753 4 69 3 816 1	Ending Mar. 21 1,181 1,324 1,403 49 Week Ending Mar. 21 367 17 24 23 23	P Price Good Steers (1,000-1,200)  \$11-75	Top  4,190 \$12 50 491 12 50 372 12 51 1,623 12 75 1,552 11 35  HOGS  Week Ending Ending Mar. 14 Mar. 21 7,202 \$20.75 1,568 21.25 455 21.25 6,168 20.00	Receipts  3,718  433  733  3,313  932  Receipts Same Week 1917 7,023 842 955 6,718	6,081 533 332 2,357 1,833 Week Ending Mar. 21 7,811 1,155 666 6,524	stock at e	Montreal (East End) Winnipeg

Market Comments.

Toronto (Union Stock Yarda). There was a liberal movement of cattle to the stock yards during the week, about sixty-two hundred being on sale, three thousand of which were offered on Monday, seven hundred on Tuesday, sixteen hundred on Wednesday and the balance on Thursday. On the whole, a week of active trading was experienced at prices ruling from 25 to 40 cents higher on all classes of cattle, compared with values of a week ago. On Monday trading was very active and most of the cattle offered were sold by early afternoon. On the following day prices were about steady, but on Wednesday the market was somewhat slow, sales of medium and common cattle being inclined to drag and many of these grades were carried over to Thursday, on which day the market showed renewed activity at prices about steady with Monday's quotations. The quality of the cattle was better than for some weeks past, many choice animals being in the pens and included was a sprinkling of beef cattle. Only a limited number of heavy steers were on sale; two head of these sold at \$13.25 per hundred, a straight load of fourteen head averaging twelve hundred and fifty pounds; shipped from St. Mary's, Ontario, went to an outside buyer at \$13 per hundred, while a few odd head also sold during the week at this latter figure, and the majority of the offerings from \$12 to \$12.50 per hundred. Of steers weighing from ten hundred to twelve hundred pounds, a number of head averaging eleven hundred and seventy pounds sold at \$13 on Mon day. On Wednesday, a load of equal weight realized \$12.40, and five head of choice cattle of ten hundred and fifty pounds, \$12.50. Quite a number of of good cattle of these weights sold from \$11.75 to \$12.35 per hundred; com non quality realized from \$10.25 to \$10.75 A number of siles of choice baby beef were made at fancy prices, a few being s dd at \$12 to \$11, seven head of about eight hundred pounds average bringing the latter price on Monday, while nine of seven hundred and fifty pounds sold on Wednesday at \$13.50. Straight loads of butcher cattle under one thousand pounds were weighed up at from \$11 to \$11.75, while one-half load reached \$12. Cows and bulls were active and steady in sympathy with other grades of cattle, and a few siles were made at \$11 to \$11.50 for these of extra choice quality while mest of the best animals moved from \$10 to \$10.75, and good from \$9 to \$9.75. Common bulls sald from \$7.75 to \$8.51, and common cows from \$7 to \$8. The demand for stockers and feeders for grass tee ling is increasing, and a number of shipments were made during the week to antr. p ints. Good feeders are selling from \$9.50 to \$10.5), according to weight and quality, and good stockers from \$8.75 to \$9.50. There is a considerable movement of cilves at the present time, eleven bundred being on sile, most of them of dair, breeding from the dairy sections of Ontario. A prace of \$17.25 was paid for a low chaice year, while \$16.50 to \$17 was the ration one of for the test yeal calves, and \$12 to \$15 for these of combon

CLASSIFICA STEERS		No.	(Unio	ORONTO n Stock Yards) Price Range Bulk Sales	Top Price	No.	(Pt. Avge. Price	ONTREAL St. Charles) Price Range Bulk Sales	Top Price
heav	y finished	149	\$12.67	.\$11.75-\$12.75	\$13.00	(			
STEERS 1,000-1,200	good common	657 49	11.92 10.61	11.50- 12.25 9.75- 11.25	$\frac{12.50}{11.25}$	95 34	\$12.25 10.90		\$12.50 10.90
Sterrs 700-1,000	good common	$\frac{1,781}{642}$	11.36 10.06	10.75- 11.75 9.25- 10.50	$\begin{array}{cc} 12 & 25 \\ 10 & 50 \end{array}$	85 67	11.15	11.00-\$11.50 9.75-10.25	11.50 10.75
HEIFERS	good fair common	650 460 66	11 61 10 37 9 10	11 00~ 12.00 9.75~ 10.75 8.75~ 9.50	12.50 10.75 9.50	40 20 6	11.15 10.00 8.75	11.00- 12.50 9.50- 10.75 8.50- 9.25	10.75
Cows	good	$\frac{385}{652}$	9.89 8.09	9 00- 10 50 7 50- 8 50	$\frac{11}{8} \frac{00}{75}$	33 53	10.25 8.75	9.75- 10.50 7.00- 9.50	
BULLS	good common	91 58	9.98. 8.08.	9 00- 10 50 7 75- 8 75	11 00 9 75	15 17	10.50 9.50	10.50 8.50- 9.75	11.00
CANNERS &	CUTTERS	244	6.25	6.00 6.50	6.50	46	6 25	5.25- 6.75	
OXEN		2	12.75	12.75-	12.75	12			
CALVES	veal grass	1,162 19	$\frac{15.24}{8.00}$	14.00- 17.00 7.00- 9.00	17.25 9.00	1,324	11.24	. 10.00- 14.50	15.00
STOCKERS 450-800	good fair	12 22	9.25 8.21	8.75- 9.50 7.75- 8.75	9.50 8.75				
FEEDERS 800-1,000	good fair	96 65	$\frac{10.34}{9.75}$	10.00- 10.75 9.50- 10.00	11.00 10.00				
Hogs (fed and	selects heavies lights	7,364 6 270	20.48 $20.75$ $18.97$	20.25- 20.75 20.75-	$\frac{20}{20} \frac{75}{75}$	897	21.15	21.00- 21.25	21.25
watered	sows stags	157	18.97 16.55	18 25- 19 75 18 25- 19 75 16 25 - 16 75	19.75 19.75 16.75	236 18 -4	20.40 18.75	20.25- 20.50 18.50- 19.00	20.50
LAMBS	good common	250 39	19.50 17.00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20 70 19 00	7	17.00	17.00-	17.00
Энвер С	heavy light common		12 43 14 00 8.00	11.00 - 14.00 13.00 - 15.00 7.00 - 9.00	14 00 16 00 9 00	10	13.15	13.00- 13.50	13.50

lambs sold during the week at \$20.60, a number of others realized \$20,70, while sheep were moving at \$12 to \$15 for those of good grading, and from \$7 to \$10 for common.

Hog receipts were somewhat lighter than those of the previous week, and in ler a strong denund quotations ruled vere high. On Monday \$20.25 per handred was the quotation for selects, fell watered, while two deeks brought \$20.1) On Tues Liy only's wen han fred hogs were on sile, and these were weighed up at \$20.50. This latter price covered most of the siles on We lastly, although two decks realized \$20.75. On Thursday the market was steady at the higher level. There appears to be a shortage of finished hogs in the country, and receipts are ligater than those of a year ago. Demind is very keen at the present tiafe, and prices are likely to rule high for an indefinite period.

Of the disposition from the yards for the week ending Much 11th, Curdin packing houses bought 435 calves, 67 bulls, 25 heavy steers, 3,255 but her enttle, 9,330 hogs and 334 s'ree, and lumbs. Local batchers parchised 150 cilves, 30s butcher cattle, 83 hogs and 83 shop and

but her cuttle, 42) stockers, 193 feelers. There were no shipments made to United Stat's points during the week

The total receipts from January 1st to Murch 14th, inclusive, were 47,527 cuttle, 6,923 citizes, 85,982 hogs and 9,500 sheep compared to 15,545 cuttle, 7,210 calves 107,335 hogs and 10,131 sheep, receive during the corresponding period of 1917.

Montreal.

Receipts of butcher cuttle for the week totilled eight hindred and ninety-five compared with eight handred and forty three on hart during the previous week The market opened strong and maintime! this condition throughout a period of a tive tradiag, in which the average price of good quality steers was advanced 31 per him lee lon a basis of quality above he closing prices of the previous week The percentage of good stock among the offerings has not been surpassed at any tine tais seison, a circumstance due largely to the strong denual for cattle o good finish for the Eister and Hebrew trile. Some excellent siles were mile. I'w reows of good finish which averaged fifteen handred and ninety-five pounds eara, and dressel out one at nine hundred Lambs and Sheet are in loss defined trubs. Currien singularits were in the attention to be supply as limited. Landreks of up of 31 calves, 193 miles cows, 33 at average of sixty-three per cent, of the

total live weight, sold for \$13.50 per hundred. One of these cows gave a surplus fat supply, other than the kidney fat, of four hundred pounds. There is always a big demand for stock of this kind during the Lenten season. Steers weighing from ten hundred to twelve hundred pounds, of which there were ninety-five on hand, realized high prices, which were justified as most of this number dressed out from fifty-four to fifty-six per cent, of the live weight; about fifty head sold at \$12.50 per hundredweight, and the remainder at slightly lower figures. Twenty-five head of medium quality steers of these weights sold at \$10.90 per hundred. There were very few good quality animals under ten hundred pounds on sale, most of the finished stock being of heavier weights. Good cows in fat condition sold readily from \$9.75 to \$10.50 per hundred, those of common grading were, in some cases, 25 cents weaker, selling from \$7 to \$9.50, while butcher heifers sold well in mixed lots with the steers. Butcher bulls sold mostly at last week's prices, although one exceptionally good bull weighing twenty three hundred and twenty-five pounds and dressing out sixty-three per cent. of the live weight brought \$10.75 per hun-I dred. Veal calves continue to increase in

MARCH 28, 1

numbers and de stances which to \$3 per hund the week being trade in this cl started and the the local trade, lack of good qui There were I lambs on hand prices were unc week, sheep set

per hundred, an Receipts of were inadequat market opened s per hundred for weights, and 83 maintained a st closing with a st These prices w weighing from pounds up.

Pt. St. CHAI from the Yards f 14th, Canadian butchers purcha ners and cutter cattle, 1,568 k lambs. Canadis up of 29 milch **shipments** made during the week The total rece

March 14th, inc 4,188 calves, 13, compared to 8, 14,851 hogs and ing the correspondence East End.—O Yards for the w Canadian pack butchers purch butcher cattle, 4lambs. Canadi up of 20 butche shipments made during the week. The total rece

March 14th, inc 3,172 calves, 8,4 compared to 9,5 11,351 hogs and ing the correspor B

Cattle A rat

all around at I Anything in the from a quarter choice and fancy was fully as mu opening day of loads or 2,000 h needs. Receipts and a good, stron prevailed. There to twenty cars o order, best of w to \$14. A drove fat cows, for Jew very fancy pric of any class sold sale. Best handy b \$12.50 to \$13.00, v ing heifers from and feeder deman of loads of steers hundred selling a selected lits of fee \$10.50. Ball ma prices of these of l heavy decline, bes around \$11 to \$
springer trade f kinds, about stea common grades. to \$160.00. Off totaled 2,875 hear for the correspond 3,675 head for th Quotations:

Shipping Steers prime, \$13.15 to \$ to \$12.90; plain, \$ and common, \$10 Shipping Steer \$12 to \$12.50; fa \$11,75; common a Butchering St

\$12.50 to \$12.75; \$11.75; best hand to good, \$11.25 to mon \$10 to \$10 to prime 12.50 to

Cows and Heife \$11 to \$12; goo \$10.50 to \$10.75; \$9.50 to \$10.25; very fancy fat best heavy fat good butchering

numbers and decrease in quality, circumstances which caused a cut of from \$2 to \$3 per hundred, the average price for the week being around \$11. The export trade in this class of stock has not yet started and the supply is too heavy for the local trade, chiefly on account of the

lack of good quality.

There were hardly enough sheep and lambs on hand to make a market and prices were unchanged from those of last week, sheep selling from \$13 to \$13.50 per hundred, and lambs at \$17.

Receipts of hogs while fairly liberal were inadequate for the demand. The market opened strong and active at \$21.50 per hundred for long-run selects, off car weights, and \$21.25 for short-runs, and maintained a strong condition all week, closing with a strong tendency to advance. These prices were paid only for hogs weighing from one hundred and fifty pounds up.

Pr. St. CHARLES. -- Of the disposition from the Yards for the week ending March 14th, Canadian packing houses and local butchers purchased 1,166 calves, 67 canners and cutters, 29 bulls, 356 butcher cattle, 1,568 kogs and 43 sheep and Canadian shipments were made up of 29 milch cows. There were no shipments made to United States points during the week.

The total receipts from January 1st to March 14th, inclusive, were 6,680 cattle, 4,188 calves, 13,198 hogs and 4,987 sheep; compared to 8,478 cattle, 4,907 calves, 14,851 hogs and 4,529 sheep, received dur-

ing the corresponding period of 1917.

East End.—Of the disposition from the Yards for the week ending March 14th, Canadian packing houses and local butchers purchased 589 calves, 332 butcher cattle, 455 hogs and 35 sheep and lambs. Canadian shipments were made up of 20 butcher cattle. There were no shipments made to United States points during the week.

The total receipts from January 1st to March 14th, inclusive, were 7,225 cattle, 3,172 calves, 8,485 hogs and 4,668 sheep, compared to 9,544 cattle, 4,473 calves. 11,351 hogs and 5,766 sheep received during the corresponding period of 1917.

#### Buffalo.

Cattle A rattling good cattle trade all around at Buffalo the last week. Anything in the steer line was advanced from a quarter to forty cents and on choice and fancy fat cows the advance was fully as much. The supply for the opening day of the week figures eighty loads or 2,000 head and fell below the needs. Receipts were light after Monday and a good, strong market in consequence prevailed. There were around fifteen to twenty cars of steers on the shipping order, best of which landed from \$13.50 to \$14. A drove of very heavy, gobby fat cows, for Jewish demand, sold at the very fancy price of \$14. Fat heifers of any class sold higher and were ready sale. Best handy butchering steers sold up to \$12.50 to \$13.00, with best handy butchering heifers from \$11 to \$11.25. Stocker and feeder demand was strong, a couple of loads of steers, weighing around seven hundred selling at ten cents, but the best selected lits of feeders are quotable up to \$10.50. Bull market was about steady, prices of these of late weeks had taken a heavy decline, best heavy fat kinds selling around \$11 to \$11.25. Milk cow and springer trade firm for the best heavy kinds, about steady on the medium and common grades. Fancy milkers sold up to \$160.00. Offerings for the week totaled 2,875 head, as against 3,650 head for the corresponding week last year and 3,675 head for the like week a year ago. Quotations:

Shipping Steers - Natives - Choice to prime, \$13.15 to \$14; fair to good, \$12.50 to \$12.90; plain, \$11.50 to \$12; very coarse and common, \$10.75 to \$11.

Shipping Steers, - Canadians - Best, \$12 to \$12.50; fair to good, \$11.25 to \$11.75; common and plain \$10 to \$11.

Butchering Steers- Choice heavy \$12.50 to \$12.75; fair to good, \$11.50 to \$11.75; best handy, \$12 to \$12.50; fair to good, 811.25 to \$11.75; light and common \$10 to \$10.50; yearlings, choice to prime 12.50 to 13; fair to good, \$11.75

Cows and Heifers - Best heavy heifers, \$11 to \$12; good butchering heifers, \$10.50 to \$10.75; fair butchering heifers, \$9.50 to \$10.25; common, \$7.50 to \$8.25 very fancy fat cows, \$11 to \$12.25 best heavy fat cows, \$10 to \$10.75 good butchering cows, \$9 to \$9.50; Incorporated 1855

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WRITE OR CALL AT NEAREST BRANCH.

medium to fair, \$7.50 to \$8.50; cutters, \$6.50 to \$6.75; canners, \$5 to \$6.

Bulls.— Best heavy, \$10 to \$10.75; good butchering, \$9 to \$9.50.

Stockers and Feeders.—Best feeders, \$10.75; good butchering, \$9 to \$9.50. \$10 to \$10.50; common to fair, \$8.50 to \$9.25; best stockers, \$8.50 to \$9; fair to

Monday, when values went off 25 to 50 cents from the previous week's close, light hogs sold from \$18.50 to \$18.75, heavies ranged from \$18.20 to \$18.40 and pigs landed at \$18.25. Tuesday prices 25, were 186 cars: 3,446 cattle, 448 calves, were still lower, range being from \$18 to 1,779 hogs, 135 sheep and lambs. Slow \$18.35, heavies and pigs selling down to the low figure, Wednesday prices were jumped 25 to 35 cents, top being up to \$18.65, and Thursday light hogs brought \$18.80 to \$18.90, heavies ranged from \$18.35 to \$18.60 and pigs \$18 to \$18.50. Friday the good weight hogs were general ly steady, bulk going at \$18.60, light grades were 15 to 25 cents higher, yorkers and mixed grades bringing from \$19 to \$19.15 and pigs, which showed the greatest improvement, ranged up to \$19. Roughs the fore part of the week sold around 3 northern, \$2.17½; No.4 wheat, \$2.10½. \$16.25 and Friday they brought from Oats—(According to freights outside) \$16.50 to 16.75. Stags went from \$14.50 down. Last week receipts were 23,500 head, as against 21,413 head for the week before and 11,500 head for the same week a year ago.

Sheep and lambs.-Last week started with top lambs selling mostly at \$19, Tuesday's range on the best was from \$18.75 to \$18.90, Wednesday nothing sold above \$18.80, Thursday's market was stronger, top being \$18.90 and Friday the best handy lambs sold from \$19 to \$19.15. Cull lambs ranged from \$18 down and heavy lambs, kinds weighing around 100 pounds, sold in the same notch as good culls. Yearlings were quoted Frigood culls. day up to \$17. Sheep were scarce all week. Wethers that were choice but pretty heavy sold at \$14.50 and a more desirable kind was quoted up to \$14.75. Ewe range was from \$14 down. Monday a load of fresh clipped lambs made \$15.50 Receipts for the week totaled 13,200 head being against 17,906 head for the week previous and 14,800 head for the same week a year ago.

Calves.—All former American records for veals were broken at Buffalo last week. Monday choice lots sold mostly at \$19 and culls went from \$16. Demand was very strong after Monday and an advance was noted from day to day. Friday, which good, \$7 to \$8; common, \$6 to \$6.50.

Milchers and Springers—Good to best, (small lots) \$90.00 to \$120.00; in car loads, \$80.00 to \$100.00.

Hogs.—Prices showed a bad break the fore part of the week, but before the week was out the decline was fully regained.

Monday, when values went off 25 to

#### Toronto Produce.

Live stock receipts at the Union Stock Yards, West Toronto, Monday, March market. Butchers, 10 to 20 cents lower. Cows, steady to 20 cents lower. Bulls, drug on market - none sold. Calves, sheep and lambs steady; one lot 37 lambs sold at \$20.85. Hogs, \$21 per cwt., fed.

#### Breadstuffs.

Wheat.-Ontario, No. 2, winter, per car lot, \$2.22; (basis in store Montreal). Manitoba wheat, in store, Ft. William —including 2½: tax—No. 1 northern, \$2.23½; No. 2 northern, \$2.20½; No.

Oats.—(According to freights outside) Ontario, No. 2 white, 94c. to 95c., nominal, No. 3 white, 93c. to 94c., nominal. Manitoba oats, No. 2 C. W., 9676c., No. 3, C. W., 925/8c. (in store, Fort William). Extra No. 1 feed, 9178c.; No. 1 feed, 901/sc.

Barley.—Malting, \$1.78 to \$1.80. Peas.—According to freights outside; No. 2, \$3.50 to \$3.60.

Corn.—American (track, Toronto), No. 3 yellow U. S. A. War Board Prohibit importation.

Rve.-No. 2, \$2.50. Flour.-Manitoba flour (Toronto, new, bags.) War quality, \$11.10. Ontario flour (prompt shipment, new bags), war

#### quality, \$10.70, Montreal; \$10.70, Toronto. Hay and Millfeed.

Hay.-Track, Toronto, No. 1, \$17 to \$18 per ton; mixed, per ton \$14 to \$16. Straw.—Car lots, per ton, \$8.50 to \$9, track, Toronto.

Bran.—Per ton, \$35. Shorts.—Per ton, \$40.

Hides and Wool.

Prices delivered, Toronto:

City Hides.—City butcher hides, green, flat, 12c.; calf skins, green flat, 23c.; veil kip, 18c.; horse hides, city-off, \$5 to \$6; sheep, \$2.50 to \$5.50.

Country Markets. - Beef hides, flat, cured, 11c. to 12c.; green, 10c. to 11c.; deacons or bob calf, \$1.75 to \$2.50 each; horse hides, country take-off No. 1, \$6 to \$7; No. 2, \$5 to \$6; No. 1 sheep skins, \$2.50 to \$5; horse hair, farmers' stock, \$25.

Tallow.— City rendered, solids, in barrels, 16c. to 17c.; country solids, in barrels, No. 1, 15c. to 16c.; cakes, No. 1, 18c. to 19c.

Wool.—Unwashed fleece wool, as to quality, fine, 60c.; coarse, 58c.; washed wool, fine, 82c.; coarse, 80c.

#### Farm Produce

Butter.—All class of butter kept stationary in price, selling as follows on the wholesales: Creamery, fresh-made pound squares, at 50c. to 52c. per lb.; creamery solids, at 48c. to 49c. per lb.; dairy, 35c. to 40c. per lb.
Oleomargarine.—32c. per lb.

Eggs.—The egg market also remained practically stationary, No. 1's selling at 45c. to 46c. per doz., and selects at 48c. to 49c. per dozen, wholesale.

Cheese.—Cheese remained unchanged in price; old cheese selling at 30c. per lb.; new at 21c. per lb., and new twins at 24½c. per lb.

Beans.—Beans continue to be very scarce and therefore firm in price. Japanese hand-picked whites selling at \$6.75 per bushel.

Honey.-Honey is off the market. Poultry.-Receipts continue to be very light with only a moderate demand. Fat live hens, however, are expected to have an active demand during the next week owing to the near approach of the Jewish passover. The following prices were quoted for live weight: Chickens, milk fed, per lb., 30c.; chickens, ordinary fed, per lb., 24c.; fowl, 3½ lbs. and under, per lb lb. 22c.; fowl, 3½ lbs. to 5 lbs., per lb. 25c.; fowl, 7 lbs. and over, per lb., 30c.; ducklings, per lb., 25c.; geese,

per lb., 18c.; turkeys, per lb., 25c.; turkeys, old, per lb., 22c.
Potatoes.—Potato receipts have been exceptionally heavy with a very slow trade at slightly lower prices: New Brunswick De awares selling at \$1.90 per bag, and Ontarios at \$1.65 to \$1.80 per bag, wholesale—Cobbler seed potatoes keeping stationary at \$2.50 per bag.

#### Montreal Produce.

Horses.-Farmers are evidently making preparations for their spring work, and in this connection were enquiring for good plugs of mares at around \$150 each. Carters were also making enquiry, though transactions were not very frequent. Prices were \$250 to \$300 for heavy draft horses weighing 1.500 to ,700 lbs.; \$200 to \$250 for light draft, ,400 to 1,500 lbs.; \$125 to \$175 for light horses; \$50 to \$75 for culls; and \$175 to \$250 for fine saddle and carriage horses.

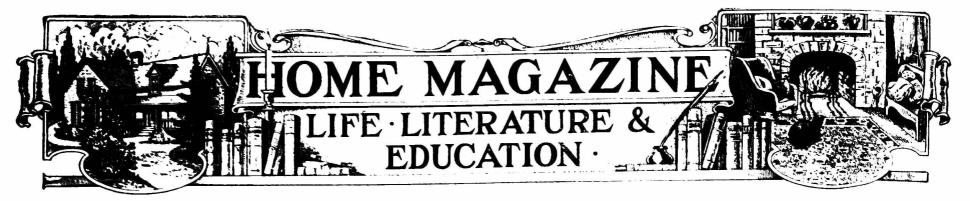
Poultry.—Supplies in the market were light, and receipts from the country were almost nil, so that prices were firm. Turkeys were firm at 35c. to 36c. per lb., while milk-fed chickens brought around that range also, while good chickens were 30c. to 33c. Best fowl sold at 27c. to 30c., and from this the price ranged down to 23c. Geese 25c. to 27c.; ducks, 26c. to 30c.

Dressed Hogs.—The market for dressed hogs continued to display a very firm tone, but prices were holding about steady. Abattoir, fresh-killed stock continued at 28c. to 231/2: per lb., while country-dressed was available at 25c, to 25½c.

Potatoes.—The market experienced a considerable decline owing to the milder weather having induced larger deliveries. Car lots of Green Mountains changed hands at \$1.60 to \$1.65 per 90 lbs., extrack, 20 cents being added to these prices, per 80 lbs., ex-store, in smaller lots. Quebec whites \$1.75 and reds \$1.70.

Honey and Maple Syrup was hardly quotable last week. No trading took place in the old crop, and the first of the new crop was just in the making, and unquotable as a market. As for the weather, it is favorable but the woods are very full of snow. Prospects seem to be for a good crop. Honey was not in active demand, No. 1 white clover comb being quoted at 22c. per lb.; No. 2, 19c. to 20c.,

Continued on page 550.



#### Easter Night.

BY ALICE MEYNELL

All night had shout of men and ex-Of word women filled his way, Until that moon of somber sky On Friday, clamor and display Smote him; no solitude had he. No silence, since Gethsemane

And all alone, alone, alone,

He rose again behind the stone

Public was Death, but Power, but Might, But Life again, but Victory, Were hushed within the dead of night, The shuttered dark, the secrecy

#### An Italian Easter.

BY MRS. JOHN COLBY

It was before the war, and I sometimes wonder how the laughter-loving Italian folk have since celebrated that festival of Easter, which to them, is the greatest event in the ecclesiastical year.

We had landed at Naples; gone from thence to Rome, and Holy Week found us in Florence. Florence, with her wideeaved houses, het fair hill vistas, and her black, experienced looking church bells, which tumbled in and out of the beltries in full view of the beholder.

Over balconies, in and out of lattices, around veranda posts, wisteria poured its purple flood. On the Arno's banks, washerwomen crouched at their eternal task. The Boboli Gardens dreamed, serene, of their own loveliness, and on distant slopes, olive trees teathered the landscape with a soft mist of color like a thought of green, not yet matured.

It was Holy Week.

Every little shop in Florence was in gala dress. The butchers' windows were decorated with bright garlands of tissue paper, and pigs, wearing a most beatific expression on their inanimate faces, were strung up, whole, with pink paper roses stuck into their noses and ears. It was Holy Week!

Italian housewives had cleaned their homes from top to bottom in anticipation of the great event, and of the view of the tiest who would speakly took poom wall Holy Water: The Letter diverse and Sand agro pasquale and egg-web es of a hith processing by the converse to the converse of the conve be lad or de de ter lasse. being placed on the total control of the

There were the Constitution of the diquest bases · 1.11; · · · · · · · · · A1

Up old stone stans, worn deep in the undelle by the tootsteps of centuries, we groped on way to a room which was a bower of camellas, double anemonies tulips, roses and e perarias. From thence we stepped out upon one of the balconics overlooking the Piazza del Duomo, where, even at that early hour, a heated altereation was going on with regard to some misunderstanding about reserved seats. We had obeyed the injunction to arrive betimes, and had ample opportunity to review in our minds all that we had heard concerning the spectacle which we were about to witness

Many legends were told about the origin of the "Scoppindal Carro", Burning of the Car , or "Dove Spectacle." grew out of the rite of blessing the Holy Fire, on Easter Eve, and although traditions differed from one another in details, all seemed to unite in ascribing to the wealthy and powerful House of Pazzi the distinction of having first brought the sacred flame to Laly, from the Saviour's sepulchie.

Centuries 120, an ancestor of this illustrious Florentine family went on pil-2timage to Jerusalem. He pressed for: ward eagerly in the throng who strove to ignite their torches at the Sacred Fire in the Holy Sepulchie.

"He was a mighty man, and tall, with a torch larger than any other," says an old chromale, and he succeeded in lighting his taper first at the Sacred Flame.

Then, exultant at his success, he tode home all the way to Horence with his face toward his horse's tail ' to prevent the Devil from blowing out his precious

Those who saw him pass, riding in this strange tashion, cried: "Pazzo' pazzo'," amad' mad' and thus, according to some nattatives, the name of the House originated. Be this as it may, the brave Crusader a complished his purpose, arriving home sately with the Holy Flame, and as a reward for his valor, the House of Pazze supered to many years, the beams and boards clamped together, and supported on four low, solid wheels. A stout pole with steps on each side formerly ran up the inside, but at the present day this is superseded by a more convenient rope ladder. A thick coating of paint and varnish has destroyed the pictures commemorating Pazzo's exploits, as well as the colors on the coat of arms

Early on the morning of Holy Satur day, in the old church of S. S. Apostoli, the priest has, with great ceremony, kindled a new fire from the precious flint stones from the Saviour's sepulchre. Now is the time for Italian mothers to obtain a light from the Holy Flame with which to kindle a fire in their own homes, and over which they hasten to heat water to bathe their babies. Others warm their children's clothes over fire kindled in a like manner, or cook their breakfast with it, special blessings being thought to fol-

At the lighting of the taper, Florentine mothers also encourage their babies to take their first steps in the belief that it will make their legs strong.

When the tinder catches from the three sacred flint stones, the taper lighted from it in turn lights the candle in the brazier or partificate -a beautiful. 14th century piece of copper work which is used to convey the new Holy Fire, just struck, from the Church of the Apostle to the great Duomo.

There is always a very long Mass on the morning of Holy Siturday, and even with an early start, it is almost halt past eight before the procession of priests and deacons sets out from the Church of the Apostle, with the press furior. It has an escort of municipal guards, and standard bearers carrying the binners of the Pazzi tamily, together with the red lily of Florence which constitutes the city flag. and the church banner, a red cross on a white field I wo down it of the Commune also form part of the escorting procession, and make a pleasing uppear

Babalt Gerbens, Florence.

lands, it advances by slow degrees toward the Piazza in front of the Duomo, On its arrival there a most imposing structure, bristling with the works) the oxen are unharnessed, and the business of stretching the wire from the car through the great central door of the Duomo, is commenced. Along this taut wire the much-talked of Columbia (Dove) makes its journey, when, at the proper moment, it speeds to the car to ignite the fire works there.

The Dove is a mechanical device, containing a slow tuse, and is it advances along the wire to perform its mission, great is the suspense of the country folk, for it it travels straight, and sets off the fire works without a hitch, it is a popular superstition that the coming harvest will be good. But if not, it is a bad omen for the crops. In former times, if the Dove did not fly well, it meant imprisonment to the man who manipulated it, but now he merely forfeits his payment.

and Dove, and processions, we of the outer world, wayfarers in Florence, and about to view our first Scoppio del Carro, had been sitting in our balcony seats overlooking the Piazza del Duomo, since ten o'clock, although the Dove was not even scheduled to appear until high noon. However, there was plenty in the scene beneath es to redeem the time from boredom. Peasants from the surrounding hillsides had flocked in by the score until it appeared impossible for the spectators on toot to move. The presence of these picturesque country folk, in their quaint attire, reminded us of old tales told regarding past Scoppios, when the ex-pectancy of the country tolk was said to turnish a theme for jests among the dwellers in the city. Upon one occasion, when a group of the former were standing wide mouthed, having eyes and ears for nothing but the scene before them, some town wags stitched seven or eight men and women together with strong thread, keenly anticipating the moment when they should discover their predicament. This practical joke was known as

At half-past eleven the Archbishop of Horence began to celebrate Mass. Linoughout the forenoon of this particular Holy Saturday, the sky had been overeast, and presently a few scattering drops of rain began to fall. Umbrellas sprang up like mammoth mushrooms in the Piazza beneath. It drizzled intermittently. The country folk were in despair. Then, just as the Dove was about to appeat, the rain stopped. But the tension

I ived In the Campanile the huge bell peals touth. The choir chants Gloria in as and every church bell, big or terbe, re all Horence, change in with its

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An Exciting Moment in the Spectacle of the Scoppio del Carro. The Columbina on Its Way to the Car.

me "clothen of a larger growth" tollowed in the water of the procession to the Piezza Viterro I n annel , there to see the last of the tre works a x holed

#### Hope's Quiet Hour

#### His Witnesses.

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the glory of her Lord. Men, in this dark time, are strong, life the tracks of Old. We would see HSLS. Surely it is true that many himgering souls in the army and out of it. Lord looking to; the shim mering white today of Christ, and will follow its gleam, even into the churches of they think they can find Him there. If you into the churches are they think they can find Him there.

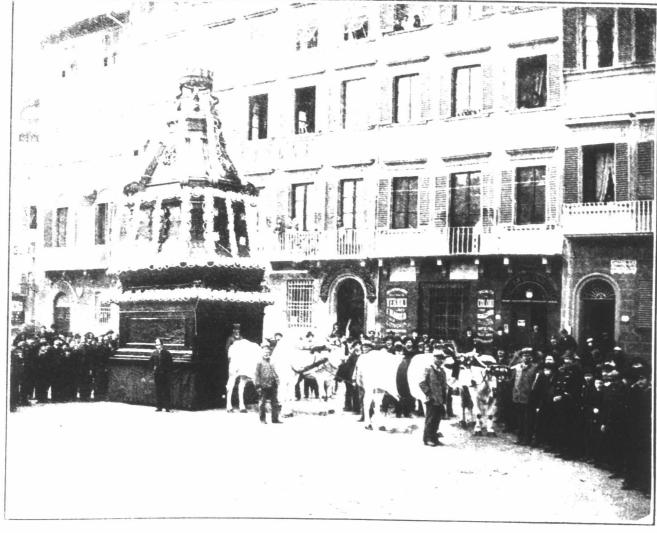
I ven into the clinicles what kind of a witness has the trusted baile of Christ proved beiself, it she is the last there on earth where men of the world expect to find Chart

The pioneer band of the sples, which as sent out to wan the world for the King, was very small, the number of the names together were about an hundred and twenty but the witness they bore was trithful, and then 'boldness' in then Master's cause convinced outsiders that "they had been with 11-818"

Lets 4: 13. They reflected His featless uses. "speke the word of God with boldness" and "with great power gave the apostles witness of the resurrection of the Lord H.S."

of the Ford H.S.S.

They were sine of His Presence with them, and so "the Ford added to them day by day those than were being sayed." then first business in life was to bear withess to Him, everythm, else was a withese to Him, everythm, else was a secondary matter. Then excesser on Him and so they reflected His image, stowns, more and nore like Him. In those days, where people wanted to know what Christ was like they went, as a neither of course, to the people who acted



The Car, Drawn by Four White Oxen, Arrives in the Prazza del Duomo.

#### called by His Name. If it is true that our soldiers—or many of them—look up to Christ as their ideal Man, yet look down on His professed followers as "canting hypocrites," whose fault is it? Is it our fault-yours and mine?

Let us, in this day of tremendous realities, look at the matter honestly. We can't afford to gloss over flaws in the Church's machinery while millions of men are facing death and asking for some word of the Beyond—some word that they can trust.

We call ourselves "Christians", are we really serving Christ? Do we, in soldierly fashion, obey His orders each day? Do we accept our particular cross— the cross He asks us to endure—as cheerily as the soldiers accept hardship and danger? Do we rejoice that we are counted worthy to suffer something for His sake? Or do we complain and grumble when we can't have exactly what we

We are sent out to be His witnesses the proof He offers to the world that He is not dead, but Living and in the midst of His Church. "Ye are manifestly declared to be the epistle of Christ," wrote St. Paul to the Corinthian Christians: and it was to the same Corinthian disciples that he held up a marvellous picture of Christ—the picture of perfect Love—for them to copy. Love is kind, though unkindly treated, rejoiceth in the good fortune of other people and delights in pointing out their virtues. Love endures unfalteringly all pain, trouble and illwill, hoping still in darkness, when all earthly hope has failed. Compare our copy with the Original—with the Love of Christ—and see how poor an imitation we are showing the world. But the War is not yet over-we are invited again to be His witnesses. Let us

"Grant us love Thy Love to own, Love to live for Thee alone, And the power of grace make known We beseech Thee hear us.'

Dora Farncomb.

#### The Windrow.

If the present scarcity of ordinary skins coutinues, leather for shoes may soon be made of the skins of whales, sharks, walrus and codfish. Experiments are being made to make these available.

\* \* \* \* Lantern rockets, with parachutes attached, are now sent up over Paris on dark nights, to reveal the whereabouts of attacking air-planes; and it is proposed to open the "catacombs," ancient stone quarries running under half the city, to use as shelters when bombs are being \* \* \* \*

Many astronomers are now making extensive preparations to observe the total eclipse of the sun which is to visit the United States on the 8th of June. The eclipse will be visible only to a strip of country extending from the mouth of the Columbia River in Washington to the coast of Florida, and varying in width from 65 to 40 miles.

\* \* \* \* Fruit, uncooked, ungarnished and served as nature gives it to us, has the approval of doctors and dietitians. It is a recognized fact that our bodies work much better when there is a surplus of alkaline ingredients in the blood, and that difficulties arise if the surplus is acid instead. Contrary to what might be expected, fruits which contain more or less acid always leave alkalines behind them to be absorbed by the blood. Meat, eggs, fish, cheese and all cereal foods, on the contrary, leave an acid record. In order to maintain the desirable healthy alkaline condition of the blood nothing could be more logical than to finish a meal of meat, bread and pastries with fruit. Because this is true fruits and green vegetables, most of which have the same alkaline characteristics, are often called blood purifiers. They are as essential to a healthy condition of the body as is oil to a smoothly-running

#### 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 Address Fashion Department, "The Farmer's Advocate and Home Magazine," London, Ont. Be sure to sign our name when ordering patterns. Many forget to do this.

Send 15 cents per number when price is not marked.

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

Name	
Post Office	٠
County	
Province	
Number of Pattern	
Age (if child or misses' pattern)	
Measurement-Waist Bust.	
Date of issued in which pattern ap-	n
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No. 9551 Dress for Misses and Small Women 16 and 18 years. 9519 Fancy Blouse, 34 to 42 bust. Price 15 cts. and 18 years. Price 15 cts.

9625 Skirt with Pointed Tunio, 84 to 52 weist. Price 15 cts

No. 9538 Two-Piece Skirt for Misses and Small Women, 16 and 18 years. Price 10 cts.



Price 15 cts. 9031 Three-Fiece t. 24 to 32 waist. Price 15 cts. to. 9640 Blouse with Tunio, 34 to 42 bust. Price 15 ots. 50. 9693 Two-Piece Skirs. 44 to 34 waist. Price 10 ots.



305's Suit. 2 Price 10 ctm.









#### 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 Strange Springtime.

Truly we have reached a strange springtime. In the happy old days before the war we could face the summer, with a surety of hard work, it is true, but with the pleasant hope of having "something to lay by" at the end of it, for a rainy day. This year we can do nothing of the kind. With the high cost of living on the one hand, and the need of helping with war-work on the need of helping with war-work on the other, we can have little certainty of anything—except, perhaps, the hard work. Yet we will face it bravely, knowing that our part of the sacrifice is just nothing at all compared with that which "our boys" are compelled to make every day over there in Europe.

Just now the chief question is: "What can we do, here, now, to help things along? For my own part 1 do not feel like giving much advice in this matter, for I am quite sure that my readers are quite as anxious to help in the world's great need as I am, and that they know much better their own circumstances and the way in which they can do the most. I know, of course, that almost every paper or magazine one picks up and every lecture one hears (given by women lectures to women) is strong with mgings upon the women to go out on the land and work, even to the point of taking up farms and carrying them

But it seems to me this a something that must not be undertaken recklessly. I do not say that it is impossible. are women who are so big and strong of bone and muscle and so filled with robust health, that they can go out and do such work without being very much the worse for it; but I do think that these are in the minority and that they have no right whatever to dictate to frailer women, already overworked, as to what they shall or shall not do. Let the big strong women go out and work at ploughing, harrowing and pitching up sheaves if they want to, and all honor and glory to them for it, but let them not forget that the weaker woman who manages to squeeze in a pile of knitting along with her housework, or who spares money to the Red Cross from the proceeds of her chickens, is also doing war work none the less important. For a frail woman, carried away by enthusiasm, to attempt heavy farm work, might be only suicidal. By wisely working in some less strenuous way, she may at once preserve such strength as she has and do more for the war than by making a wild spurt and breaking down.

In everything enthusiasm must be tempered with wisdom. It must always be remembered that efficiency can only be secured by good health joined to the will to work just as far as the bodily strength will permit but no further. Never was efficiency so needed as to-day; yet to-morrow it may be needed even more. If the women make of themselves broken-down wrecks how will the world be served either to-day or to-morrow?

There is one way, however, in which comparatively frail women really can work on the land, finding, too, not less health but more in the process.—That is, gardening, and it is cheering to remember that in the face of the world's urgent call for food, ever so small a plot of land can add to its foodstuffs. Every beet and carrot, every quart of beans and peck of potatoes, spares just so much of the essentials called for over there in Europe. So is it not evident that every garden-bed we make, even for our own use, and every hill of potatoes we hoe (provided there is no man with a horsedrill to do the work) must help our armies and the people of France and Belgium who have been turned out of their homes

Potatoes especially are good food, and so are beans.—Have you never grown beans? Then try some this year, even though the price is high. are all good—white, yellow, brown black, and even the "scarlet runners" that you can train on the fence and that are just as edible as the others. They all contain protein, the great muscle builder, and, moreover, not only do not take anything out of the soil to impoverish it, but, on the other hand, positively enrich it. They are legumes, like clover, and so take nitrogen right out of the air and throw it into the soil, where it will remain ready to help things grow next

N order to find time to do all this gardening, it will of course be necessary to curtail work elsewhere, but any woman "with a head on her" can see how this may be done: Unnecessary "frills" in both cooking and clothes will have to be abandoned. If one has a house of many rooms it may be advisable to shut some of them up for the summer. By doing all of the cooking on an old stove in an outside shed and serving the meals on the back porch, or under a tree, when the weather is fit, much toil of cleaning-up in the house may be saved. A tent on the lawn which may be used as a sleeping-chamber will help still more, and will be found more heathful than the inside room. -But why enumerate? Any wide

IST a word more in closing: It is perfectly ridiculous the way the idea still sticks in the minds of some people that the Government, by its food regulations is trying to make us half starve ourselves here. On the very face of it that is as unreasonable a notion as ever was hatched. It would be a fool Government that would ask us to eat less than we need, and so ruin our efficiency here in the face of all the work we have

awake woman can add to the list.

The only request the Food Control Department makes in the regulations issued, is that we eat certain things to spare others. Wheat, beef, bacon, cand sugar have been found the most con-

through with the labor of women only,

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MARCH 28, 19

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#### Needle Poin

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What to do FARMER'S ADVOCAT Will you please Advocate these que

What to do wi bloomed this winter Will they bloom t out in the spring? be kept in order to bloom next winter

Simcoe Co., Ont. Bulbs that have in the winter cannot the next summer, by some out of the v time, they may d bulb flowers in th plant fresh firm bu spring. After that undisturbed for soft thin them out if no ford says: "It is no up your bulbs each to think. I prefer undisturbed for tw Then I lift them a ripened, and divide away until fall, who new beds. The bed can be utilized fo making it necessary which will have comp before it is time to I The soil can be still rake, taking care ne penetrate far enough with the bulbs.

Papering

Dear Junia.--I papering two rooms is a parlor with two east; the other is a one window facing t arch-way dividing the refers to a country ho 1. Would it be a both alike or differen of paper would be be painted a silver grey? 2. What colored

the paper best? AN AT Welland Co., Ont.

venient and the most needful at the front and we are asked to spare all we can of those four things so that sufficient quantities can be sent over there.

But what a splendid variety we have left! Brown breads, muffins and biscuits of all kinds; brown nutbread and cake; rice and other cereals for porridge; mutton poultry and fish of all kinds; vegetables and fruits; maple and corn syrup, honey and a reasonable amount of sugar as well as a reasonable amount of white flour! -If we can't make out good meals on all those we deserve to go hungry.

It is no hardship to eat brown bread and muffins.—And here I speak from experience, for I haven't eaten half a dozen slices of white bread in the past year. If you don't believe me, just try some good Graham flour bread muffins or biscuits for tea to-morrow, with butter and syrup or jam as an accompaniment, and see how good they are.

Surely the boys at the front deserve that we at least try to do this little, little service for them! If we are not willing to do even this much, we should be—well, heartily ashamed of ourselves to say the least. Think of all they are

Just here, will you who sympathize with me in this view of the situation, help out in a way that you can, very

Will you please send me your very best "war" recipe? Then we can have a whole "war" issue, so far as the cookery department is concerned, and so, perhaps, we may help some people who would like to cook with the things recommended but do not know how. I have already given you some recipes, and have still some more, but perhaps yours are better. And, anyhow, I think it would be more interesting to have a round-robin collection, —don't you?

#### Needle Points of Thought.

"Help the birds all you possibly can, for they will do your locality a service that man, with all his inventions, utterly fails to render."— Our Dumb 'nimals.

The best evidence of being learned is that one is ever learning."—Henry

#### What to do With Bulbs.

FARMER'S ADVOCATE:

Will you please answer through the Advocate these questions:

What to do with bulbs, hyacinths, affodils and narcissi? They have daffodils and narcissi? bloomed this winter.

Will they bloom this summer if planted out in the spring? How should the bulbs be kept in order to have them ready to bloom next winter?

Simcoe Co., Ont. Mrs. I. S Bulbs that have been forced in pots in the winter cannot be expected to bloom the next summer, but may be planted in some out of the way place where time, they may develop. To have bulb flowers in the garden one must plant fresh firm bulos in fall or early spring. After that they may be left undisturbed for some time except to thin them out if necessary. Eben Rex-ford says: "It is not necessary to take up your bulbs each season as some seem to think. I prefer to let them remain undisturbed for two or three years. Then I lift them after the foliage has ripened, and divide them, storing them away until fall, when they are reset in new beds. The beds where bulbs grow can be utilized for annuals without making it necessary to disturb the bulbs, which will have completed their flowering before it is time to put out the annuals. The soil can be stirred with a garden rake, taking care not to let the teeth penetrate far enough to come in contact with the bulbs.

#### Papering Rooms.

Dear Junia.—I am thinking of papering two rooms this spring. One is a parlor with two windows facing the east; the other is a dining-room with one window facing the south, with an arch-way dividing the two rooms. This refers to a country house.

1. Would it be advisable to paper both alike or different, if so, what shade of paper would be best, both rooms are painted a silver grey?

2. What colored rugs would match the paper best?

AN ATTENTIVE READER. Welland Co., Ont.

Personally I should like both of the

rooms done in the same paper, provided the rugs match in color. But it is in quite good taste to have the papers different, in such a case, if it is made sure that they harmonize. Sometimes it is even advisable to do this, when one room is much darker than the other, or when the exposures are markedly different.

Papers in honey color, amber, chamois, sand, and tobacco brown are all much favored this spring, and very pretty and durable they are. But they would scarcely "go with" your silver gray paint, would they?—So we shall have to think of something else.

Really your gray paint is very difficult. About the only thing that will go with About the only thing that will go with it is paper of the very same shade, or with the very same shade predominating. You might possibly find this best in a good "shadow paper" of gray and pink good shadow paper of gray and pink tones—not a sharp or defined pattern, you understand. With plain gray paper you would have to add a bright note in a border, and in rugs and curtains. The border, for instance, might have a rese design in very soft pink with green leaves; then the curtains and cushions could be of chintz, also in pink roses and green leaves.

The rugs, with silver gray walls and pink relief might be a very dull old rose, or, possibly, a very quiet olive green if of the very right shade.

cloth or camel's hair brush and a pure mild soap when washing, and afterwards apply an astringent such as bran water. Eat good plain food, avoiding rich pastry and two much grease. Guard against constipation. Drink plenty of pure water. A lotion that may be applied directly to the pimples two or three times a day, is the following: Mix together 2 drachms flowers of sulphur, 3 drachms tincture of camphor, 1 ounce glycerine, 4 ounces rosewater.

#### The Child.

We have received from "A Mother" Northumberland Co., Ont., a letter which is so long that there is not space to-day in which to give the whole of it, but whose substance is that the mother of a large family should be honored, and that, especially in this war-time, which has so decimated the number of men in the world, it is the duty of women to have children, which are, after all, a comfort and joy.—To all of which, the readers of this paper are likely to give assent. The majority of sensible folk, nowadays, agree that a large family is a very good ght to see—so long as the parents are healthy and the children can be given a good chance to start the battle of life. We are sure "Mother" will agree that a child handicapped from the very start



Allenby Entering Jerusalem.

At Easter time religious interest centers about Jerusalem. This picture shows the victorious allied J forces entering Jerusalem on December 11th, 1917. Following the custom of the crusaders, General Allenby and his staff, also the communiters of the French and Italian forces co-operating with him, entered the Holy City on foot, through the Jaffa gate. Underwood & Underwood.

#### Poems Wanted.

Will anyone who has a poem on "What my Church is doing" (evangelically) or "The power of the cross in Asia", kindly send it to Milton Down, Ayton, Ont.

#### Pimples on Face.

In reply to a question on this subject we may say that pimples on the face are caused by several things. Sometimes an unhealthy condition of the blood is at the root of the trouble; sometimes lack of frequent bathing; sometimes eating food that is too rich. In some people neglect to rinse soap off the face with clear water, will even give rise to pimples.

To avoid them and cure them, get the health in good condition and take care of the skin. Wash the whole body every night with soap and warm water, and be sure to rinse off the face with clear cold water. If there are blackheads, scrub the face gently with a

by disease and poverty is one of the

tragedies of this world.
"Mother" closes with a poem which is very beautiful. Its title is "A Child". but she does not give the name of the

"A little child—a smile, a song from God, Wakening echoes from far ages past That still endure through all the spaces

Peopled with shades who once this sad earth trod.

A child to love, to lift us from the clod, To curb our faults, our virtues to expand, To open wide the clutching miser hand, To show us where fair flowers of Duty nod, To bid us run, and sing-forget to plod. A little child, with trusting eyes and clear, Seeking for Truth, and holding without

The balance fair 'twixt righteousness and fraud

A little child in loving kindness given, To lift me, childlike, to my home in heaven.

Easter Cookery.

Hot Cross Buns.—Make buns of ordinary bread dough (preferably made with milk instead of water) and to it add a little butter, sugar, raisins or currants an an egg. Shape into round buns and place in well-greased pans about 2 inches apart. Let rise, glaze with a little milk or egg diluted with water, and with a sharp knife score a cross on top of each. Bake 20 minutes. Just before removing from the oven brush with sugar moistened with water. While hot fill the cross with plain frosting.

Scalloped Eggs with Potatoes.-Take 4 cold potatoes, 4 hard boiled eggs, 1½ cups white sauce, a little grated onion, some buttered crumbs. Cut the potatoes into dice and chop the eggs coarsely. Prepare the white sauce by mixing together 2 tablespoons of butter, the same of flour, ¼ teas,000n pepper and ⅓ teaspoon salt. Stir these together over the fire until the butter is melted and mixed smoothly with the flour, then add the milk, a little at a time and cook until the boiling point is reached, stirring constantly. Continue to simmer for 5 minutes, then add the grated onion. Grease a baking dish, place in it a layer of potato, then a layer of chopped egg, then a layer of sauce, proceeding in the same way until all is used. Sprinkle buttered crumbs over the top and bake 25 minutes. To prepare the crumbs mix them with melted

Swiss Eggs.—One tablespoon butter, 4 eggs, 3 tablespoons thin cream, some grated cheese and some thin slices of cheese, salt and pepper. Melt the butter in an earthen or other baking dish that can be sent to the table. Spread with cheese sliced very thin. Break in the eggs and pour the cream over. Season with salt and pepper, sprinkle the grated cheese over the top, and bake in a moderate oven until the eggs are just set.

Serve very hot.

Lemon Crumb Pie.—Line a pie with pastry and fill with the following mixture: Take grated rind and juice of a lemon, 3/4 cup water, ½ cup sugar, ½ cup corn syrup, 2 egg yolks, cup fine bread crumbs closely packed, 2 tablespoons butter or sweet cooking fat. Melt the fat, mix all ingredients with it, and pour into the Bake slowly until the crust is browned and the filling firm. done cover with a meringue made from the stiffly beaten egg-whites to which have been added 4 tablespoons powdered sugar, 1/2 teaspoon lemon juice, and 1/4 teaspoon grated lemon rind. Brown the meringue and serve hot.

#### Economy in Cake-making.

BY L. D MILNER.

ITH the cost of milk, butter, eggs and all the other ingredients used in making cakes soaring runuously upwards, we must, or should economize in every possible way if we would keep them on the table, and some buckwheat and cornmeal cakes, Graham sems, oatmeal cookies-in fact, any cake which does not require a full complement of white flour should not be dispensed with at the present time It is with the object of showing how cakes can be made at slightly lessened cost-cakes that are as palatable and more digestible than the more expensive ones, that I am telling of some of my -not war-time economies, but ones first used breause of sudden shortages of ingredients when miles away from a store, and adhered to because I liked the results of the economized recipes better than those of the original ones.

Even on a dairy farm it is possible to run short of milk, as I found to my sorrow one day, when, after telling two visitors, who were calling on me for the first time, of the wonderful equipment in our recently built milk house. I asked them most cordially to have a glass of milk. My feelings, upon reaching the building and finding the tank in which usually stood a can containing the leftover milk, empty, can better be imagined than described. On my way back to the house I remembered that the man who took the milk to the station had told me before leaving that the morning's milking had just filled the last eight-gallon can. I vowed that day that I'd see I was never eft without milk again, but there have been times when I had to economize in using milk for baking. It was on one of those days that I discovered that if half milk and half water is used in making any plain cake batter, the cake is much

The dripping from pork is excellent shortening for either pastry or hot biscuit. One can use much less of it than of store lard or butter, and it has a pleasing flavor all its own.

For a good sized plain cake, calling for two cups of flour, I use only one egg, unless it is to be iced: then I use two, taking the white of one for icing. The smaller number of eggs used in cake the more easily is it digested, and I never use an egg when making pancakes. Many people think a pancake wouldn't be a pancake without eggs, but the only word I'll say in praise of my own recipe is that I'm invariably asked for it by visitors who drop in to supper during maple syrup season.

A piece of butter the size of an egg is my standard size for plain sweet cake. For hot biscuits I use two heaped table-spoonfuls of shortening, not melted but rubbed in as for short pie crust.

My recipe for hot biscuits—the kind which almost melts in one's mouth—calls for three cupfuls of white flour, two teaspoonfuls of cream of tartar, one teaspoonful of soda, half a teaspoonful of salt and two tablespoonsfuls of shortening. I sieve the flour, cream of tartar and salt into a bowl and rub in the shortening with the tips of the fingers. I dissolve the soda in the first cup of milk and water, as it usually takes nearly two cups for this quantity of flour. While adding the milk and water I stir with a wooden fork, which is much better for mixing biscuit batter than a spoon. The batter while soft should be stiff enough to be lifted easily on to the flour board, which should be well sprinkled with flour. Do not roll out but pat with floured fingers till it is about half an inch thick, then cut, either round with cutter, or into squares with a wellfloured knife. If these biscuits are fried in boiling fat, like doughnuts, opened with

a fork and filled with jam or stewed fruit, they are unbelieveably good.

This same recipe serves for fruit short-cake or mock meat pie. Adding a little more milk it is used for chicken pot-pie, or dropped into gem pans it makes delicious plain muffins. Using one cup of Graham flour to two cups of white, gives the wholesome and equally delicious Graham gem, though I usually add two tablespoonsfuls of sugar when using Graham flour. Dispensing with the sugar and baking the Graham flour mixture in a small bread pan, one has a roll of brown bread that is healthful and good to eat.

My plain cake calls for two cupfuls of flour, one cupful of sugar, one cupful of milk and water, one egg, or two, saving the white of the second for icing if icing is preferred; two teaspoonfuls of cream of tartar, one teaspoonful of soda, and a piece of butter the size of an egg. I cream the butter and sugar together, using a wooden spoon, which is much preferable to a metal one; add the beaten egg and then the milk and water in which the soda has been dissolved. Having stirred these thoroughly, I sieve the flour, cream of tartar and a tiny pinch of salt, into the mixture. Dates and walnuts quarter-ed and added to the batter just before pouring it into the baking pan give a cake which makes one long for more and can be used for special occasions. When icing the plain cake I take one cupful of granulated sugar and four tablespoonfuls of water, boil till it hairs and stir into the beaten white of egg, adding the flavoring desired. Chocolate icing is made in the same way, adding grated chocolate in the quantity desired for color and flavoring.

Sometimes I use this plain cake for pudding, serving, while warm, with a lemon sauce. To make this I heat one cupful of sugar and one of water, to which the juice and grated rind of a lemon have been added, till boiling. I then thicken with one tablespoonful of cornstarch and stir in a piece of butter the size of a walnut.

When short of lemons, I use two tablespoonfuls of vinegar instead of the lemon, and flour instead of the cornstarch.

I use the same recipe for layer cakes and sponge cookies, dropping the batter into gem pans for the latter. It also makes an excellent pudding if poured over sliced apples or cut rhubarb and baked in a deep dish.

For buckwheat and cornmeal cake I take three-quarters of a cupful of brown or muscovado sugar, one and a half cupfuls of cornmeal or buckwheat flour, half a cupful of white flour, one cup of milk and water, one egg, two teaspoonfuls of cream of tartar, one teaspoonful of soda, half a cupful of shortening and a small pinch of salt. I follow the same procedure as for plain cake, creaming shortening and sugar together, etc.

Except when adding fruit or dates, which should be stirred into the batter just before pouring into the baking pan, let the mixture stand in the bowl for an hour or two before putting into the baking pan. For small cakes pour into the gem pans as soon as mixed and let stand till about twenty minutes before required. All baking pans should be well greased except for hot biscuit.

#### The Cookery Column.

Scrapple.—Boil hog's head and any other lean pieces of meat, such as shanks and liver. Cook until very tender carefully take out all the bones, chopping the meat up fine in the liquor in which it was cooked. Stir in one-fifth as much cornmeal as meat, season to taste and boil until the oatmeal is very thoroughly cooked. Pour into a mould. Serve cold, with catsup, pickles or mustard; or fry when wanted.

Graham Gems.—One cup entire flour, 1 cup white flour, 1 cup milk, 1 egg, 4 tablespoons sugar, 1 tablespoon melted butter, 4 level teaspoons baking powder, 1 level teaspoon salt. Mix and sift

dry ingredients, add the milk and egg beaten together, then the melted dripping. Put in hot buttered gem pans and bake in a hot oven.—This and the three following recipes are from the Food Controller's Office. Always serve gems with butter and jam, syrup or honey.

Cornmeal Gems.—Half cup cornmeal, 1 cup flour, 3/2 cup milk, 3 level teaspoons baking powder, 1 egg, 1 tablespoon sugar, 1 tablespoon melted dripping, 1/2 teaspoon salt. Mix and sift dry ingredients. Beat the egg and add to it the milk, then beat into the dry ingredients. Last of all add the melted shortening. Put in greased gem pans and bake in a hot oven.

Macaroni and Cheese.—Cook macaroni in boiling salted water for 20 minutes. Drain and pour over it cold water. Drain in a baking-dish put a layer of macaroni. Sprinkle with grated cheese. Repeat until all is used. Pour white sauce over, cover with buttered crumbs, and bake until crumbs are brown. Tomato sauce may be used instead of the white sauce if preferred.

Baked Fish.—Clean the fish, remove the eyes if the head is left on, rub with salt, fill with the stuffing and sew the edges together. Dredge with flour and put in a pan with a little fat. Put in a hot oven and baste every 10 minutes with the fat. Allow 10 minutes baking for every pound of fish and 10 minutes extra. Garnish with parsley and slice of lemon, and serve with fish sauce.

Stuffing for Baked Fish.—One cup soft bread crumbs; 2 tablespoons melted dripping; salt, pepper and grated onion to taste.

Standard White Sauce.—Two level tablespoons flour, 2 level tablespoons butter, 1 cup milk, salt and pepper to season. Melt the butter, add the flour and seasoning, then add the milk very slowly, and cook thoroughly, stirring all the time. Many like a dash of nutmeg, if the sauce is to be served with fish. Variety may be gained by adding chopped parsley, hard-boiled egg, cucumber pickle, or capers. The capers should be cooked with the sauce, the egg, etc., mixed in just before serving. A sharper sauce is obtained by adding a tablespoon of grated horseradish wet with lemon juice, beating well.

Lyonnaise Potatoes.—One onion, 2 tablespoons butter or pork dripping, 5 cold potatoes, pepper and salt. Chop the onion and fry for 5 minutes in the butter. Next add the potatoes cut in dice and the seasonings. Serve when crisp and somewhat browned.

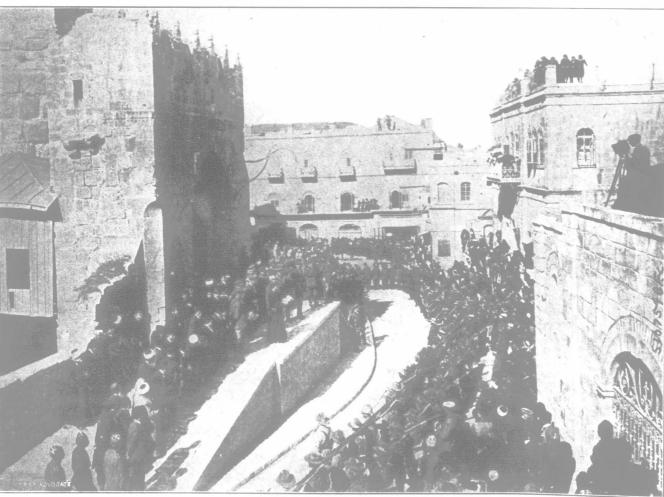
Potato and Beet Salad.—Three cups cold potatoes, 1 cup cold pickled beets, 1 tablespoon Worcestershire sauce, or catsup (mushroom is be t), 1 teaspoon onion juice or grated onion. Cut the cold potato and beets into small, neat cubes. Make a dressing by mixing 1 cup of the red vinegar in which the beets have been pickled, the sauce and onion juice. Mix potatoes and beets ligh ly and pour the dressing over. Serve with cold meat.

Canned Corn Soup.—Two cups canned corn, 2 cups boiling water, 2 cups milk, 1 slice onion, sprig of parsley if on hand, 2 tablespoons butter, 2 tablespoons flour, pepper and salt. Add the water to the corn and simmer for 20 minutes. Scald the milk with the onion and parsley, then pour into the corn. Thicken with the butter and flour rubbed together. Season and serve very hot for supper, with hot bissite or bettern bettern treatment.

with hot biscuits or buttered toast.

Vegetable Hash.—Chop coarsely cabbage, turnips, parsnips, potatoes and carrots. Add water and cook, just using enough water to cover. When tender add a little gravy or brown stock on hand, season, thicken slightly with flour and butter rubbed together, and serve very hot. A good supper dish. Vegetable hash may also be made by mixing cold cooked vegetables, adding a very little stock and heating. Serve with pickled beets.

Turnip Pie.—Cook together a few potatoes cut in pieces, some sliced onion, and some diced turnip, using twice or three times as much turnip as potato. Jus: cover wi h water and cook on top of the stove until tender. Season, thicken slightly with flour and butter rubbed together, and pour into an earthen or granite baking dish. Cover with good biscuit dough pressed out with the hands until it is half an inch thick. Brush over the top with milk and bake until browned in a hot oven. Serve for dinner with meat cooked separately. It should be very hot when eaten.



Reading the Proclamation, Jerusalem.

This picture shows a priest reading the British proclamation to the people of the Holy City from the steps of the Tower of David, which was standing when Christ was in Jerusalem. The following was the proclamation:

TO THE INHABITANTS OF JERUSALEM THE BLESSED AND THE PEOPLE DWELLING IN THE VICINITY:

The defeat inflicted upon the Turks by the troops under my command has resulted in the occupation of your city by my forces. I, therefore, here and now, proclaim it to be under martial law, under which form of administration it will remain so long as military considerations make it necessary. However, lest any of you should be alarmed by reason of your experience at the hands of the enemy who has retired, I hereby inform you that it is my desire that every person should pursue his lawful business without fear of interruption.

Furthermore, since your city is regarded with affection by three of the great religions of mankind, and its soil has been consecrated by the prayers and pilgrimages of devout people of these three religions for many centuries, therefore do I make it known unto you that every sacred building, monument, holy spot, shrine, traditional site, endowment, pious bequest or customary place of prayer, will be maintained and protected according to the existing customs and beliefs of those to whose faiths they are sacred.

Guards have been placed at Bethlehem and at Rachel's tomb. The tomb at Hebron has been placed under exclusive Moslem control. The hereditary custodians of the Wakf at the gates of the Holy Sepulchre have been requested to take up their accustomed duties in remembrance of the magnanimous act of the Caliph Omar, who protected that church.

Photo—Underwood & Underwood.

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#### **TheBeaverCircle**

#### Jimmie Zane's Easter Eggs

BY CARRIE HAYWARD.

TIMMIE Zane's merry whistle rang out on the clear, frosty air, as he came in from school one afternoon early in March. He put away his dinner pail, and hung up his skates on a nail in the corner of the kitchen before the whistle ceased. Mother was in the act of removing a pan of deliciously browned biscuits from the oven as the children came in. Five o'clock was the supper hour in the Lane household, as the children were usually as "hungry as bears" after their two-mile walk from school.

Jimmie's whistle ceased abruptly. "Gee! but those biscuits look good. Say Mother! when's Easter?

"Easter! Why I think it is the last Sunday in this month. It comes early this year," answered Mrs. Zane.
"Let me see," commented Jimmie;
"that will be three weeks from next

"Are you getting hungry for a feast of eggs, Jim?" said his father, who had

just come in.

"No-o-o", drawled Jim, but-"Oh I know what Jim is thinking about' said Beth, who was a couple of years older than her brother; "Uncle Ben and Aunt Clara are coming for Easter. We got a card from then in the mail to-night".

"That will be fine", said mother;
"I am not surprised that Jim is counting

the weeks'

Jimmie made no reply, but resumed his whistle, as he prepared for supper. True! he was very glad that his uncle and aunt and cousins were coming, but even that anticipated pleasure was not uppermost in his busy mind just then. The fact was, that his special chum, Tom Darcy, had been telling him at school of the large store of eggs, which he had hidden away, little by little, the year before, and of the surprise and delight, which the big basketful had created, when he brought them in on Easter morning. Jimmie thought that would be fine, and as the hens were laying fairly well already, he knew that he could easily lay away three or four each day; but the nights were cold yet, and where could he hide eggs so that they would not freeze? That was the thought that was puzzling. his small brain just now, and even that reflective whistle had failed to solve the problem.

Children", said mother, at the breakfast table next morning, "be careful to shut the tool-house door, if you go in there for anything. Old Brownie has made up her mind to set, and has chosen a corner in the tool-house for that purpose; but I am afraid it is too early for chickens yet, so I threw her out and shut the door.

She will soon forget it" "The tool-house" thought Jim to himself, "just the place! Why didn't I think of that before". Now the tool-house was a cosy little building. Mr. Zane had put an old stove in it and allowed his young son to build a fire there, and use it for a work-shop whenever he wished. He had also taught him how to use the different tools wisely and carefully and it was surprising how handy he was becoming with them. But the tool-house was to serve a different purpose just now.

"I'll hide eggs in there" thought Jim, "and if the nights are cold I can put a chunk in the old stove. No danger of freezo then.

Accordingly an old box, with one end out was snugly fitted in a corner, and here, on a nice bed of straw, Jim hid three large yellow eggs that very night. The next day was Friday. Jimmie awoke cold and shivering, instead of racing out to the barn as usual, he hovered over the stove while mother was getting break-

"What is the matter Jimmie"? she asked anxiously. "I am afraid you have cold.'

"O, I guess I'm all right," he answered; but there was a redness about his eyes, and a languid look, wholly unlike this active, fun-loving boy.

"Iamafraid you are getting La Grippe," said mother, "and you had better stay at home to-day.

Jim objected at first, but his limbs ached and he finally decided that mother knew best, and so Beth went to school alone. Jim spent most of the day on the old settee, near the kitchen stove, while mother administered simple remedies, but apparently to no avail. He coughed

and sneezed, grew feverish and thirsty, and complained of the light hurting his eyes. About four o'clock he thought about the eggs and walking rather unsteadily across the kitchen he took down his coat and cap.

"I don't think you had better go out Jim", said mother, "Beth will gather the eggs when she comes from school.

'But I've stayed in all day, mother' he answered half irritably; I'll just walk out to the barn and back, I believe I'd feel better; and so mother gave a reluctant consent.

Jim felt very queer and shaky and his head seemed to be in a whirl, as he walked towards the hen-house. He only stopped to gather the eggs from the first nest he came to, five in all, then turned and walked slowly back. "I think I'll put these all in the tool-house", he said to himself;"
"I might not be able to gather any tomorrow". He stumbled somewhat unsteadily into the tool-house, and hid the eggs beside the three of the day before. A strange dizziness was creeping over him. He reached the door and put his hand against the casing for support. He had a somewhat hazy idea of old Brownie clucking near by, and mother coming to frighten her away and then he remembered no more. When he came to himself he was in his own bed, and father and mother and Beth were all watching him with anxious faces

"How did I get here? What is the matter? he asked wearily.

"You are ill dear. You fainted in the tool-house, and father carried you in' said mother, as she laid a cool hand tenderly on his hot forehead. "We have sent for Dr. Evans. Beth heard to-day that the measels were in the village, and we think you must be getting them; so you just lie still and let us take care

Dr. Evans soon confirmed their suspic-ns. "Measels", he said, "and a very severe case, but he is a healthy laddie and I think we can pull him through Mother was very thankful now that Beth had had them in her babyhood. She counted much on her, to help wile away the tedious hours of illness and con-valescence with Jim, and a good little helper she proved to be. For several days he was very ill indeed. Beth could not help laughing at his blotched and swollen face, and brought a mirror for him to see. He laughed too, but she said it didn't sound much like Jim. After the first week he began to get better, but his eyes seemed weak and very sensitive to the light, and Dr. Evans said he must remain quietly in his room. with the windows shaded, for some days longer. This was the hardest part of lim's trial, but when mother explained that a little care and patience now, would save a whole lifetime of trouble with weak eyes, he tried hard to be patient Beth read stories to him, and even brought Rover and the cat up stairs to amuse him; but he liked best the times when mother could sit by him, and tell him some sweet Bible story, as only mother could tell them. As Easter drew near she talked to him of that first Eastertime; of the loved from that was laid away in a rock-hewen tomb; of the sorrowing friends and how their sorrow was turned into joy when Christ burst the bands of Death, and came forth into glorious life. She spoke of the springtime, now so close at hand, when plants and flowers would come out of their dark winter graves into new life and beauty. "The glad Easter time is a herald of new life on every side," said mother, on the day before Easter, and then she told him why the eggs was chosen as a symbol of the resurrection, and Jim suddenly thought of the eight eggs hidden in a corner of the tool-house. He told mother then of the plot which the measles had spoiled. She laughed merrily. "All right Jimmie! I'll get those eight eggs and you and Beth

shall eat them to-morrow. Mr. Lane had just come up with a piece of good news for Jim, and there was a merry twinkle in his eye, as he heard his wife's remarks, which she, however, failed to observe. Jim was delighted when his father told him that Dr. Evans said he might come down to breakfast

on Easter morning.
"Why! it will be just like the Easter story, Jim," said Beth; you've been shut up here in this shaded room for three weeks, and you'll come out into the light

on Easter morning."
"So it will"! said Jim; "I never thought

of that' Uncle Ben, and Aunt Clara, and the three cousins came on Saturday evening, and the old farm house resounded with the children's voices. Easter morning dawned bright and clear. It seemed so good to Jim to be down stairs again. He was the guest of honor that morning, and he thought they all looked uncommonly merry, as he took his place at the table. After Mr. Zane has asked a blessing on their food, mother said demurely, Beth you may bring in Jim's eggs, they are keeping warm by the stove.

Jim noticed that no one began to eat until Beth returned. Imagine his surprise when instead of a plate of eggs, she placed before him a basket and quickly removed the cover; and there, instead of eight brown eggs, were eight fluffy little brown chicks, very much alive indeed, and peeping loudly at being taken from their mother.

"Why mother! where did you get them", said Jim, and such a merry laugh as they

all had at his expense. "They are your eight eggs, son", said his father. Don't you remember the day you were taken ill, in the toolhouse? The door was left open and old Brownie slipped in and took possession of your nest. I found her a day or two later and have fed and watered her ever So you see Jim, I helped you hide your Easter eggs, and they have returned out to be Easter chickens instead."

"And I'm an Easter boy", said Jim. We all came into the light at the same time, didn't we mother?

#### One of the Prize Essays. Our Extra Sow.

A few weeks ago father and I were touched by the cry for an "extra sow" to help meet the needs of the food crisis, and although we were well stocked with pigs and had no more available room we determined not to be behind the times but

to go to and buy one. We bought one at a sale, a large, red chap, and one of the most intelligent and boldest of them all. We brought her home and while we were making an extra pen, put her in the barn. There she had the full run of the floor and the only thing I thought she could hurt was the mows of hay and straw. But we were mistaken, for when we went to bring her to her newly made home, we were surprised to see the granary door flung off its hinges and Mrs. Sow right on top of a heap of barley which she was making away with in huge gulpfuls. A yell and a couple of kicks sent her grunting and waddling out of there, and indeed she was waddling for having been in the granary a couple of hours she had eaten over her limit and we feared for her but being hardy she came through all right. Nevertheless we saw we had a hard boarder, and a sow to whom objections to her freedom were as chaff before the breeze. Thus after we drove her into her pen we double-barred the door that led to the feed room, double-boarded the sides of the pen and left her to wallow and sleep in the heaps of newly laid

straw. In about an hour before going to the house for dinner, we went in to see her, and there she was lying comfortably in the corner of the pen, sleeping off the effects of the feast, with all the straw of the pen pulled up around her and two small kittens sitting, purring upon her red back. They looked so comical and cosy, that we laughed in spite of ourselves, and told each other that she was satisfied

But we were woefully mistaken, for next morning when we went in to feed her and her neighbors their morning meal, the door of her pen had been sprung open as if by a crowbar, which was nothing less than her long and pointed nose, and she had disappeared, disappeared no one knew where. However, we hunted around the feed passage in every corner and nook, but nowhere could she be found, and besides, none of several bags of meal standing there, had been touched. It was a mystery and one that nearly baffled our detective powers, for we hunted all around that feed passage to discover any hole or means of exit she must have taken to escape, for fully fifteen minutes, and then to our surprise we found a large hole behind the meal box, which had escaped our eyes before, which opened into the hen-house. Around to it we ran and stopped short at the door with surprised and angered faces, for there was Mrs. Sow standing over an empty egg-box with the last one of three dozen eggs cracking and dripping from her mouth. We were

thunderstruck and advanced to play awful vengeance on that egg-eating sow; but, as if she scented danger and knew her guilt, she turned in a hustle and bolted like a red streak, through her exit upsetting the meal box in her race; and when we entered the pig house on the run she was comfortably rooting straw at

the far end of her pen.

Well we let her go without punishment, since she was in her pen; and probably she knew it too. We locked her in, cleaned up the spilled meal, and had just made it up not to break the news to mother, when one of the little chaps ran in to announce breakfast was ready, and seeing with his sharp eyes the hole, the spilled meal, etc., wanted to know what was the trouble. The result being that he found out about the lost eggs and casting off our entreaties for silence, started off to the house to spread the news. This when we reached it, for our belated breakfast there was an awful hubbub, mother was going on fit to kill about the government, that extra sow and the eggs, etc., and declared we had to take that thief away the next day and sell her off the place. She even called up, over the phone, the pig buyer of the nearby town and told him we had a fine sow for sale. We finished our breakfast in silence, and then went out to fix up the broken pen and take another look at our castaway. She was lying, quite comfortable, at the far end of the pen and paid no attention to us, when we fixed up the door and made it additionally stronger to resist her raids. We did not notice her particularly all that day and she did not again get

out of her pen. Well, the next morning the pig buyer came along, and sorrowfully we went in to get rid of our extra sow; but what was our surprise when on opening the outside door and letting in some light, to see her lying comfortably in the corner, and fourteen little red chaps busy getting their morning meal. We all laughed at the fine sight, and voiced our sentiments of her fine healthy looking brood. The result being that Mr. Pig-buyer did not get our extra sow, although he wanted to and after making a deal for

some other pigs, he went off.

After that Mrs. Sow grew quieter and fearing to leave her brood she never broke out of her pen again, except occasionally, but nevertheless, we thought we could well afford to lose a few eggs and have a little trouble, with such an extra sow that would increase our income and increase food production by such large healthy litters of little chaps.

JAMES THOMSON. R. R. 1, Centralia, Ont.

#### Our Pet Chipmonk. A Prize Essay.

I am going to try to tell you about the funny little pet we had a couple of years ago. We live on a farm and one fine day our hired man, my brother and I were coming in from the hayfield at noon when all at once I spied a little baby chipmonk playing itself by the fence. ran and caught it before it had time to get away. I guess its mother didn't know it was out; perhaps she was away hunting something nice for dinner and little Johnny had run away. Oh, how his little heart went pitty-pat with fright when I held him in my hands! He tried to bite me with his sharp little teeth, however I managed to get him to the house in my hat.

We put him in a match box with an airhole in the top and gave him some breadcrumbs and apple to eat.

My brother and I went to work and made a cage out of a soap box with a wire screen nailed on the front so we could see him, then we put in a baking powder can filled with wool for a bed. It was funny to see him snuggle out of sight in his little bed to sleep a dozen times a day. In a day or two he became quite tame and many a time we had a good laugh at his comical tricks. He would let any one of us handle him; he would sit on my shoulder and hunt in my pockets for nuts. He liked to get up on the table after dinner and frisk around eating up the crumbs and tasting every He seemed to like honey very

You know a chipmonk is only half as big as a squirrel. He is a light brown color on the upper part, with beautiful dark stripes on the back and his breast is white.

We often let him out on the kitchen floor to play but we had to be very care-

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#### OF FOOD—THREATENS THE BATTLE



"The food wanted by mankind does not exist.

The word 'shortage' not strong enough.

"The whole world is up against a nasty thing, familiar to the people of India, called 'famine.' " Lord Rhondda,

Britain's Food Controller. One year ago, only the enemy was on rations.

To-day, Great Britain, France and Italy are on rations.

lo-day, Germany controls the wheat lands of Roumania, Russia, Poland and Ukrania.

lo-day, the shadows of hunger, famine, disease and death hang over the Allies.

Upon the 1918 crop from Canada and the United States depends the fate of the democratic peoples of the world.

If that crop is sufficient the Allies can be fed.

If that crop is not sufficient the Allies may have to accept a German peace.

#### That Battle-Line in France and Flanders Must Not Want

Do you realize what a German peace would mean to Canada?

Germany covets our natural resources-our agricultural and mineral wealth, our forests, our fisheries, everything that is Canada's.

Germany won't be satisfied with European territory, with teeming masses, wrangling factions and depleted natural resources. She wants colonies - big, thinly-populated countries in temperate zones for her sons and daughters to go to propagate their kind.

The Kaiser would sacrifice millions of Germans to-morrow if he thought that by so doing he could set toot on Canada's shores as Conqueror.

And what's more, the Germans would offer themselves for the sacrifice, so great is their subjection to the military ideal.

The only thing that balks German ambition is that battle line from the North Sea to Switzerlandand the British Navy.

#### The Only Thing That Sustains Our Men on Land and Sea-is Food

What are we, each one of us, prepared to do to insure that Food Supply?

Germany, by her submarine cam-

paign, has seen that great Armada, the British Mercantile Marine, shrink in volume.

Germany has seen South America, Australia, New Zealand, India and far away outposts of the Empire practically cut off from supplying food to the Motherland because of the lack of ships.

Forty million Allied men and women having been put on war-work, food production has dangerously decreased in Europe.

These forty million consume more food than when they were in ordinary occupations, and there are fewer men for farming. Hence an increased demand for decreased supplies.

The harvest of France was onethird less in 1917 than 1916, and this year must be smaller still, owing to lack of fertilizers, which cannot be supplied through shortage of shipping.

The world's decrease in live stock, as compared to 1913, is approximately 115,000,000 head.

#### The heart of this problem is labor.

Without more farm labor more food cannot be produced.

If you really want to serve your Country in a big, practical way, register now for farm labour, or urge and assist your male employees to do so.

#### Herbert Hoover Says:

"Our European Allies are dependent upon us for greater quantities of food than we have ever before exported. They are the first line of our defence. Our money, our ships, our life blood, and not least of all, OUR FOOD supply, must be of a common stock.

"In pre-war times, Britain, France, Italy and Belgium yearly imported more than 750,000,000 bushels of grain, plus vast quantities of meats and fats.

'The submarine destruction of shipping has made it necessary to abandon the hope of bringing food from South America, Australasia and India.

"Food must, therefore, be shipped from Canada and the United States the nearest and safest route.

"Canadian and United States supplies are normally 350,000,000 bus. short of the Allied needs. By greater production and conservation Canada and the United States must combine to increase the export of grain by 150,000,000 bushels.

"The remaining shortage of 200,-000,000 bushels must be overcome by greater reduction in consumption in the allied countries. And this is being done by Britain, France and Italy rationing her people.

"From two and a half years of contact with the German Army I have come out of the horror with the complete conviction that autocracy is a political faith and a system that directly endangers and jeopardizes the future of our race—that threatens our very independence. It has, however, been able to command complete inspiration of devotion and self-sacrifice in its people to the interest of their nation. The German farmer, in the name of the Fatherland, supports a nation two-thirds as large as the United States and threatens to subject the world from an area one-half the size of Ontario.

"My vision of War is not of an academic problem to be solved by discussion. To me it is a vision of brave, dying men and suffering women and children, for service on whose behalf the greater exertion of the Allies' farmers comes in a direct necessity and a direct plea. The Canadian and the United States citizen who sees war as I see it, needs no inducement and no inspiration, but the thought that every spade full of earth turned and every animal reared is lessening human suffering and guaranteeing the liberty of the

#### Lloyd Ceorge's Warning

"I fear the disciplined people behind the German Army, the rationed family and the determination of wife and sister and daughter and mother to stand and starve so that their fighting men may be fed-I fear it more than the Imperial German Army itself."

Britain is now on Food Rations. France is now on Food Rations. Italy is on the verge of starvation. Only continuous support from us can

enable us to hold out. Only with a disciplined people behind can we hope to win. The rationed British Nation, blood of our blood, bone of our bone, are proudly paying the price and sharing with France and Italy their limited stock of food. For in this there is mighty pride, a conscious measuring of their glory with the best traditions of ancient Sparta, and of Imperial Rome, for Britons know that upon them rests the burden of saving humanity. The story of their service shall ring and echo forever along the hilltops of history.

ORGANIZATION OF RESOURCES COMMITTEE—PARLIAMENT BUILDINGS, TORONTO

#### TO SEND MORE FOOD TO OUR ALLIES IS NOT CHARITY

It is War. The Allies have a right to demand it. They have a right to resent the offer of only what is "left over." Those who are fighting the common battle for civilization and for our protection have a higher claim than had Lazarus, to only the "crumbs that fall from the rich man's table."

The Canadian people must recognize that our Allies have the first claim on our food supplies.

As the shipping situation makes the Allies dependent upon the North American continent for food, it is vitally necessary that Canada should increase her production of food in order to take a larger part in providing for the Allies' requirements. This is especially urgent as the maintenance of a large United States Army in the European field will cause a very heavy drain on that country's resources.

There must be no peace without victory.

For nearly four years Germany has been struggling against the powers of law and order. She has failed so far to make good her escape with her booty by superior strength and skill. And now she is attempting by intrigue, suggestion, device and propaganda to divert the attention of her antagonists from the struggle itself, and thus to gain her ends by relaxing the strength and skill of her antagonists.

What she can gain from these tactics is plain to all the world in the sorrowful experience of Russia.

Germany's most dangerous weapon is not her Zeppelin—that is obsolete. Not her submarine—that can be overcome. Not her machine-like army—that has been repeatedly hurled back by the living armies of freemen. Her most dangerous weapon is her propaganda of peace.

While with her hands she murders and despoils, with her voice she invites to parleys.

# When Liberty is in Peril There is I hreat of Lasting Disaster in the Very Word "Peace"

Lord Leverhulme, long known in Canada as Sir William Lever, who knows well the German mind, in a recent interview stated:

"You will never be able to dictate terms to Germany till she is beaten. The argument you mention is founded on the dangerous fallacy that because Germany is sick of this war she is sick of war in general. She isn't. I doubt if her Government is even sick of this war. You've read

the speech of that old brigand, Hertling. Is there any sign of repentance in that speech? Is it a chastened speech? Is it the speech of a statesman who wants disarmament and a league of nations? No! Germany is back in her mood of 1914. She believes she is winning the war. She believes she has won now. And if we talk of peace to her she HAS won it. Why, it would be better a thousand times that every man in England should be dead than that Germany should issue from this war with the feeling of a conqueror. You hear people use the phrase, 'to the last man, and the last shilling,' and you think it is only a bit of rhetoric, but to my mind it's the most solemn and absolute truth. I mean when I say it that it would in very truth be a million times better for the people of these islands to be dead, every one of them, rather than live on as the serfs of a triumphant Prussia."

How can any lover of liberty remain insensible to this peril?

Food means Victory and the world made safe for democracy—

Lack of food means disaster and subjugation to Germany.

#### The Citizens of Ontario Must Lead This Mighty Crusade for Greater Food Production

They did it last year and will do it again.

As the greatest food-producing Province, Ontario must maintain her leadership in America. Great are our opportunities—our responsibility is tremendous.

Upon every man and woman, boy and girl, rests a personal obligation to serve. Every pound of food produced, in whatever form, is a contribution to the Cause of Freedom.

Ontario farmers should sow 500,-000 acres of spring wheat.

Every Ontario farmer whose land is at all suitable should put an extra five acres into wheat, even at the expense of another crop.

#### What YOU Can Do to Help

At all costs production must be maintained.

That's why farmers and farmers' sons are being exempted from military service. Working on a farm is equivalent to service in the Second Line Trenches.

To enable the farm to do the work two factors are essential. The first is Time. Whatever we are to do must be done at once. Nature waits for no man. The second is Labor. Many farmers cannot plant the acres they would because they cannot get the necessary help. Many are afraid to increase their acreage because they fear they would not be able to cultivate and harvest an unusual crop after they had raised it.

The burden is not one to be placed solely upon the farmer. Neither can it be placed upon the townsman. It is a personal obligation upon every man, woman, boy and girl, in every farm, town and city home in the Province of Ontario.

AWAY WITH CRITICISM—CO-OPERATE! Mr. City Man, don't say that the farmer should do so-and-so, and thus allow criticism in this hour of our Nation's peril to cripple your effort.

Mr. Farmer, don't hastily underestimate the value the city man can be to you.

#### Get Together in the Fight for Liberty

Let us not lament what MIGHT be, but earnestly face what MUST be.

Fifteen thousand boys between the ages of fifteen and nineteen must be organized as "Soldiers of the Soil" to work on Ontario farms this season.

Farmers can get one or more of these boys by applying to their District Representatives or to the Public Employment Bureaux at Toronto, Ottawa, Hamilton or London

Unmarried men, exempted from military service, are urged to take up farm work. Married men who have had previous experience on a farm are urged to resume farm work for a season. Employers of labor are asked to assist men to take up farm work.

We urge the farmers and the townsmen to get together for greater production in the interests of a free people and democracy.

Let the Organization of Resources Committee, your District Representatives or the Public Employment Bureaux act as your intermediaries.

When we have done our best, the cry for food cannot be wholly met. For the rest—our Allies are tightening their belts.

Organization of Resources Committee
Parliament Buildings, Toronto, Ont.

CHAIRMAN: His Honor Sir John S. Hendrie, K.C.M.G., C.V.O., Lleutenant-Governor of Ontario.
VIGE-CHAIRMEN: Honorable Sir William H. Hearst, K.C.M.G., Prime Minister of Ontario; William Proudfoot, Esq., K.C., Leader of the Opposition.
SECRETARY: Albert H. Abbott, Esq., Ph.D.

The only thing that balks German ambition is the Battle Line in France and—the British Navy
The only thing that sustains our men on land and sea is Food

Fresh Running Water

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In no other way can you invest the same amount of money to eliminate as much hard work as by the purchase of an

Empire Systems are simple in design, compact, powerful. Never freeze. Always ready for instant useday or night. There is an Empire System suited to the needs of every home, and priced so reasonably that

no home need go without it

#### Write For Free Booklet

We want to tell you about the many advantages of the Empire System. Our free booklet gives descriptions and illustrations. We will also send you an Information Blank, which, when filled out, will enable us to send you full particulars and the cost of a system adapted to your particular needs. Get posted—write to-day.

Empire Manufacturing Co., Limited. HEAD OFFICE AND FACTORY: London, Ont. Branch Office and Warehouse. 119 Adelaide St. W., TORONTO, ONT.

Important Credit Sale

### Clydesdales—Shorthorns—Cotswolds—Yorkshires

and Farm Implements AT LOT 20, CON, 3, ORO, near Barrie

THURSDAY, APRIL 4th, 1918 This sale includes two registered Clydesdale stallions - Imp.

Solway King, by Baron Solway, and Stately King, by Solway King. Three registered Clydesdale females; a two-year-old, a three-year-old and a nine-year-old, by such good sires as Baron Gartly and imp. Mellinside; also four young work horses. The registered Shorthorns comprise ten head of choice young cows and heifers by such good bulls as imp. Newton Ideal, imp. Royal Mastodon, and Superb Chief. One registered bull, by Royal Mastodon, is also in the sale. In grades there are two cows, five steers and four heifers. Twelve choice, registered Cotswold ewes, three registered ewe lambs and one registered ram lamb will be sold. In pigs there are three registered Yorkshire sows and eighteen store pigs. A full line of farm implements and machinery will go the same day. All the stock and implements will be sold without reserve as the proprietor is retiring from farming. There will also be offered a bush lot of 50 acres and a pasture farm of 34 acres. Morning trains will be met at Barrie the day of sale. JAS. A. CALDWELL, SHANTY BAY, ONTARIO

ful that the old cat wasn't in or she would make short work of him. She would sit outside the screen door looking in at him,

One day he disappeared for hours and we thought he was lost for sure, but when my sister was lying on the parlor lounge reading after dinner, out as lively as ever. He would sit in her apron pocket with his little head and shiny eyes peeking out while she washed the dishes.

with eyes as big as saucers and licking

As all stories must come to an end, I must also tell the sad ending of our pet. After having him three months, through carelessness the old cat got her

# 150-Acre Farm—\$14,000

Herd of dairy cows, horses, implements etc., can be bought with farm it desired. Station 1 mile, school 5 minutes' walk. Upper Canada College site 1 mile, village of Norval 2½ miles, Grand Stock and Dairy Farm. Fall ploughing done. Soil clay loam in grand order. Ice in for summer. Owner has shipped milk for 12 years to Toronto. 3 barns, 3 silos, frame house—9 rooms. Price, for quick sale of farm, \$14,000. \$5,000 down, balance on mortgage at 5%. Great bargain, for immediate sale. Write for new free catalogues and Bulletin of

THE WILLOUGHBY FARM AGENCY Head Office, Georgetown, Ontario Dept. 400,

through carelessness the old cat got ner chance at last and she nabbed him so When writing advertisers will you be kind enough to mention The Farmer's Advocate

quickly we could not save him; with one shake he was dead.

He was only a little animal but we loved him dearly and could not help the tears coming as we buried him under a big stone in a strawberry box covered with flowers.

JAMES WARD, (Age 11 years). Walters Falls, Ont.

Dear Puck.—I am a book-worm and I am going to tell you about some of the books I read. My favorite authors are Ralph Connor (otherwise the Reverend Charles William Gordon), James Fenimore Cooper, Jules Verne, Sir Walter Scott, Andrew Conan Doyle and Victor

Ralph Connor is a Canadian writer, His latest publication is "The Major", but I can say very little about it as I have not read it. "Glengarry Schooldays" and "The Man From Glengarry" are scenes from the vicinity of the Ottawa River. "Corporal Cameron", "The Patrol of The Sun Dance Trail" and "The "Foreigner" are stories of settlers of Western Canada. In all his books Ralph Connor paints a very true picture of

I have read some of Dicken's works and I find the "Tale of two Cities" and "Nicholas Nickleby" very interesting. "Romola" by George Eliot is also a very good book. "The Great Masters of Russian Literature" by Ernest Dupuy is a book, that will give its readers much book that will give its readers much information about the lives and works of three of Russia's greatest writers—Gogol, Turgenief and Tolstoi. Have any of the Beavers read the new story "Kitchener's Mob"? It is a soldier's description of a soldier's experience.

Lames Fenimore Cooper in his books. James Fenimore Cooper, in his books "The Deerslayer", "The Last of the the Mohicans" and "The Pathfinder" tells much of the nature of the North American Indian. "The Pioneers" and American Indian, "The Pioneers" and "The Prairie" tell of the steady advancement westward of the settlers.

Jules Verne is a writer of books of mystery. "Around the World in Eighty Days", "Twenty Thousand Leagues Under the Seas", and "Captain Antifer" are books that will stir the imagination of the reader.

Sir Walter Scott is a very popular writer. His poems—"The Lay of the Last Minstrel" (1805), "Marmion" (1808) and "The Lady of the Lake" (1810), tell of the works. of the warfare carried on by the Highland chieftains. Quentin Durward (1823) is a description of France during the reign of Louis XI. "Ivanhoe" (1830) is an account of the Norman barons and Saxon Franklins in the days of Richard the Lion Hearted.

Andrew Conan Doyle is both writer and politician. His detective stories, especially "Sherlock Holmes", are widely read. "Micah Clarke" is a tale of the Monmouth Rebellion against King James. "The Lost World" is a book telling of the surprises South A services S surprises South America contains for the

ictor Hugo is a French writer whos books are very widely read, especially, "Les Miserables". "The History of a Crime" is an account of the French Revolution.

Well, I must not take up too much space. So good-bye.

From a friend, ELDEN STOLTZ, (age 13).

You certainly have made a good selection of books, Elden. It has been a great pleasure to read your list.

#### Junior Beavers' Letter Box.

Dear Puck and Beavers.—This is my first letter to the "Farmer's Advocate" and I hope I am able to write another one. We have taken "The Farmer's Advocate" for quite awhile, and have been very much pleased with it. I have five brothers and two sisters. I go to school every day and I am in the senior second class. We had a concert at our school on Christmas and I said three recitations. There are sixteen pupils coming to our school. The name of it is S. S. No. 4, Usborne. It is a very large one and the teacher's name is Mr. Parsons. He is a very nice teacher. I live half a mile from the school I have read many books; the names of some of them are: Ali Bab and The Forty Thieves, Dick Whittington, Boys and Girls of other Girls.

I guess that is all I can think of this time. Hoping that my letter is nicely printed in "The Farmer's Advocate"

ending up my story with a joke: A sailor was testifying about the

explosion of explosion v hospital for was asked. "Well", h the gun, the the doctor s

R. R. No.

MARCH 28

Dear Puc second lette I did not se still have co pets I have two cats, ar school. Ou Duffield and to take grea helps us all of the Beave the w. p. b.

Which dea Joan of Arc's Most people they like a l chop. Elgin, Ont.

Junior Bea Clarke, Mea Ettyville, On Mills, Ont.; Harold Kirkp

Mabel I. N if Mary Sew she will reply Puck hope has won seed i garden, later o Genevieve wishes some

#### TheD

write to her.

For the sold because of the Contribution 22: J. B. Krau M. Thomson Fred Robinso Alex. Bell,

"Charity", Ware Previously ack Total to Marc

Kindly add Farmer's Adve London, Ont.

#### Curre

Spring farm Saskatchewan,

Canada's pa ally opened 122 new representation last parliament Sir George

resolution prov sold by the por weigh 1½ lbs., taining food be and addresses o measure and qu On March

introduced a bi to all women or only these may being distranch however, be perfor seats in the I

John Dillon, Nationalists in Sinn Feiners ar de Valera, that an Irish republi

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SHARRAN ...

explosion of a gun on a war vessel—an explosion which had sent him to the hospital for some months. "Please give me your version of the explosion", he was asked.

"Well", he said, "I was standing beside the gun, there was an awful racket, and the doctor said: "Sit up and take this." GARFIELD THOMSON, (age 9).

R. R. No. 1, Centralia, Ont.

Dear Puck and Beavers,-This is my second letter to you charming Circle. I did not see my first letter in print but still have courage to write again. pets I have a team of ponies, a heifer, two cats, and two dogs. I go to Elgin school. Our teacher's name is Miss Duffield and I like her fine. She seems to take great interest in our work and helps us all she can. I would like some of the Beavers to write to me. Hoping the w. p. b. is asleep, I will close with a

Which death would you prefer to die-Joan of Arc's or Mary Stuart's? Ans.— Most people prefer Joan of Arc's because they like a hot steak better than a cold

Elgin, Ont. JAMES ROBERT POWELL.

Junior Beavers' Honor Roll.-Wilmont Clarke, Meaford, Ont.; Alice Clark, Ettyville, Ont.; Hazel Robertson, Elder's Mills, Ont.; Annie Davidson, Markdale, Ont.; Genevieve McPhee, Park Hill, Ont.; Harold Kirkpatrick, Petrolia, Ont.

#### Beaver Circle Notes.

Mabel I. Martin, Denfield, Ont., says if Mary Seward will write to her first she will reply as soon as possible.

Puck hopes that every Beaver who has won seed in the competition will write a letter to the Circle about his or her garden, later on.

Genevieve McPhee, Park Hill, Ont., wishes some of the Junior Beavers to

#### The Dollar Chain

For the soldiers and all who are suffering because of the war.

Contributions from March 15 to March 22: J. B. Krauskoff, Dublin, Ont., \$1.00; M. Thomson, Mildmay, Ont., \$2.00; Mrs. H. P. Wilson, Dundas, Ont., \$2.00; Fred Robinson, Victoria Harbor, \$1.50; Alex. Bell, Milliken, Ont., \$2.00;

"Charity", Watford, Ont., \$10.00. Previously acknowledged......\$5,331.90

Total to March 22 ..\$5,350.40 Kindly address contributions to The Farmer's Advocate and Home Magazine, London, Ont.

#### **Current Events**

Spring farm work has begun in South Saskatchewan, the earliest in 7 years.

\* \* \* \* Canada's parliament, which was formally opened on March 18, contains 122 new representatives and 100 from the last parliament.

Sir George Foster has introduced a resolution providing that vegetables be sold by the pound, that a dozen of eggs weigh 112 lbs., and that packages containing food be marked with the names and addresses of the fillers, and the weight, measure and quality of their contents.

On March 20 Sir Robert Borden introduced a bill to extend the franchise to all women on the same terms as men, only these married to an enemy alien being distranchised. Women will not, however, be permitted to be candidates for seats in the Dominion Parliament.

\* \* \* \*

\* \* \* \* John Dillon, the new leader of the Nationalists in Ireland has warned the Sinn Feiners and their leader, Eamonn de Valera, that it is useless to discuss an Irish republic.

It seems evident that the great battle now going on in Europe, the most terrific in the history of the world, is the result

\* \* \* \*

of the big drive so long threatened by the Germans. The Kaiser has, nominally at least, assumed command of his armies in person, but with him are the Crown Prince, Field Marshal von Hindenburg and General Ludendorff. The attack was launched on March 21st against the British lines over a front of 50 miles, chiefly along the battle-worn Somme front, while a smaller attack was at the same time made in the Ypres sector. Now 1,000,000 Germans are said to be in the battle, hurling themselves in the solid formations which are so destructive to life, but of which the Kaiser and his leaders reckon nothing so long as their objective s gained; as one observer says, German military caste are out for victory even if to gain it they must destroy the people to whom they have promised its fruit." . . . In the first great onfruit." . . . In the first great on-slaught, which centered at Cambrai, —the thinnest part of the line, held by the Third and Fifth armies in command of Sir Julian Byng and General Goughthe British were greatly outnumbered, with the result that the Germans broke through three lines of defence. Elsewhere also, the lines were bent back, so that at time of going to press the enemy has captured a strip of 45 miles in length and varying in width from 3 miles to 1416 miles just west of St. Quentin. British lines, which retired in excellent order, fighting furiously and inflicting heavy losses on the enemy who were obliged to advance over thousands of their own dead, reached positions pre-pared long before, and for the past two days have been holding firmly and fighting with the greatest gallantry, while reinorcements are coming up in great numbers. As yet it is not known whether the Germans contemplate driving through to Amiens and thence to the coast, or following the valley of the Oise down to Parispossibly the latter since during Saturday and Sunday the city has been bombarded by shells said to be aerial torpedoes fired from a point 76 miles away. . . Truly this new Battle of the Somme is the world's climax of warfare, and yet both British and French are calmly optimistic. The aims of the German autocrats have been thwarted before this and may be again, to their confusion. Deeds of the most heroic valor and sacrifice are being daily reported from our armies. In several instances small bodies of men have deliberately sacrificed themselves to secure advantage to the rest of their divisions Some London and Irish, too, have distinguished themselves by defending redoubts and outposts after they were entirely surrounded by German troops, pouring out machine gun fire for hours.

. . Canadians, apparently, have not yet been in the thick of this struggle, but in the strip of country between Lens and Hill 70 have been undertaking an adventure of their own, having carried out the greatest gas bombardment in the history of the war, so that the Germans were beaten off with heavy losses.

Before this reaches its readers many more events will have taken place, for still the battle rages with unabated fury.

In Russia, notwithstanding the fact that the peace signed by Premier Lenine and Foreign Minister Trotosky was ratified by the Congress of Soldiers' and Woekmen's delegates, German troops are pushing on towards Moscow. Also they have entered Nikolaiev, the chief grain storehouse of Southern Russia. As yet the Japanese have made no move into Siberia, but theA are ready and only await the assent of the United States to take active part in the war. . In Palestine General Allenby has made another victorious adva ce, three Turk towns falling into his hands.

In the House of Lords, on March 19, Lord Parmoor moved a resolution approving the principle of the League of Nations and the constitution of an international tribunal to prevent war. Lord Landsdowne said he believed that if such a league were able to apply suffi cient pressure -economic and otherwise an almost sure step would be taken towards making an end of all war, but he desired to see the Central Powers also included in the League, as only so can Prussian militarism be most satisfactorily overcome.

The Entente Allies are to use 1,000,000 tons of Dutch shipping, 609,000 of which have been requisitioned by President Wilson and 400,000 by the British Government, compensation to be made to Holland for all losses and damage during the war.

#### 25% Better-"Gold Dollar" Calf Meal

**CUMMINGS FEED MILLS** OTTAWA

J. A. SIMMERS, LIMITED, Distributors, TORONTO

# **DEGGS**

Condensed advertisements will be inserted under this heading at three cents per word each insertion. 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 50 cents.

BARRED ROCK EGGS — O. A. C. STRAIN Two dollars per fifteen. J. Acres, Thornbury

BRED-TO-LAY BARRED ROCK EGGS FOR hatching—the big, healthy kind that have free range. Should hatch well. Eggs \$2 per 13, \$5 per 50. Biggar Bros., Oakville, Ont.

BRONZE TURKEYS—SELECTED FOR SIZE and vigor. Eggs \$5 per 9; also eggs from White and Barred Rocks, Brown Leghorns and Rouen ducks. J. H. Rutherford, Albion, Ont.

BARRED PLYMOUTH ROCKS—200 EGG line, Champion Guelph winners; write for circular, Eggs, \$2.00 per 15. Jno. Fenn, Plattsville, Ontario

BLACK, WHITE AND TAN PURE-BRED Collie females; handsome, intelligent heelers. Price \$4. A. Bawtinhimer, Shedden, Ont. BLACK MINORCA EGGS — BOTH COMBS, two dollars for fifteen; good layers. Write: Fred. Reekie, Camperdown, Ont.

BEULAH FARM WHITE WYANDOTTES—Winners at the principal egg-laying competitions. Official records over 200 eggs. Hatching eggs from two-fifty per setting. Mating list free. McLeod Bros., Box A, Stoney Creek, Ont.

BRED-TO-LAY BARRED ROCK COCKERELS and Indian Runner Ducks. Bred right. Priced right. John Annesser, Tilbury, Ont.

BARRON'S FAMOUS S.-C. W. LEGHORNS—world's greatest laying strain, stock imported direct. Eggs, \$3.00 and \$2.00 per 15; \$9.00 per hundred. Mating list free. J. Hollingsworth Milton Heights, Ont.

BARRED ROCKS—GREAT LAYING STRAIN. Cock rels, three dollars; pullets, two dollars. Central Poultry Yards, Colborne, Ontario.

CLOVER LEAF BARRED ROCK PULLETS won every first prize at five different fall fairs, 17. They are excellent layers. Eggs three dollars per fifteen. Satisfaction guaranteed. R. C. Waterbury, Selkirk, Ont.

DAY-OLD CHICKENS FOR SALE
—Wyandottes Rocks, Reds, Orpingtons and
Leghorns. Guaranteed safe delivery. Send for
free price list—it tells you how to raise them.
This is the cheapest and safest way to start a
flock of poultry. Hind, 5 Sandford Ave., Toronto.

DAY-OLD CHICKS—EGGS FOR HATCHING, from trap-nested, bred-to-lay S.-C. White Leg-horns, White Wyandottes and Barred Rocks. Write for mating list. Brockville Poultry Farm & Hatchery, Brockville, Ont.

EGGS FOR HATCHING FROM OUR NOTED winter layers, O.A.C. Bred-to-Lay Single-comb White Leghorns, \$2.50 per 15; \$4 per 30; \$6 per 50; \$10 per 100. Roseheath Poultry Farm, Richmond Hill, F. R. Oliver, proprietor.

FOR SALE - A FEW CHOICE UTILITY Silver Wyandotte cockerels from my exhibition stock, at \$4.00; hens, \$3.00, 2-year-old. Eggs from my best stock at \$3.00 per 15. Guarantee hatch of 9 or replaced at half price. Look up my winning at Dunnville Poultry Show. Member, Silver Wyandotte Club. J. O. Moore, Grassie, Ont.

HATCHING EGGS, BABY CHICKS, UTILITY
Laying Strains, Barred Rocks, Rhode Island
Reds, White Leghorns, White Wyandottes. Hatching eggs only from White Rocks, Golden Wyandottes, Non-Bearded Golden Polish. Write for
price list. Satisfaction guaranteed. Tay Poultry
Farm, Perth, Ont.

MAMMOTH BRONZE TURKEYS—NO breeders left to sell this spring. I am booking orders for eggs at five-dollars per nine eggs. Sixteen good females, ten of them being Guelph winners in the last two years, mated to my first-prize year-old tem and first and second-prize young toms, Guelph, 1917. My customers get the benefit of my best birds when buying eggs. Geo. Neil, Tara, Ont.

NOTICE—I HAVE PURCHASED GEORGE NOTICE—I HAVE PURCHASED GEORGE-Buttery's entire stock of prize-winning, bred-to-lay White Rocks, White Wyandottes and S. C. White Leghorns. Eggs \$1.25 per fifteen. Satisfaction guaranteed. Jack Buttery, Strathroy, Ont. PLYMOUTH ROCK EGGS—O. A. C. LAYING strain; \$1.50 per setting. Mrs. Berry, 52 Queen's St., Guelph, Ont.

RINGLET BARRED ROCKS; TRAPNESTED. heavy winter laying strain. Eggs, \$3.00 setting guaranteed. F. Coldham, Box 12, Kingston, Ont R.-C. BROWN LEGHORNS—LOOKI SPECIAL sale. Now is the time to invest in good selected laying stock. Trios of 1 cockerel, 2 females, \$10. We must have the room for our young chicks, Eggs \$3 per 15. Galloway & English, Ingersoll, Out.

SHEPPARD STRAIN S.-C. ANCONAS—TWO dollars setting fifteen eggs. Utility, one-fifty setting fifteen eggs; nine dollars a hundred. Order from this advertisement. E. W. Bennett, Victoria Ave., Niagara Falls, Ont.

S.-C. W. LEGHORN EGGS. PEN 1 THESE 16 yearling hens averaged 191 eggs each last year, headed by a cockerel whose dam laid 115 eggs from Oct. 1 to Mar. 1.—\$2.25 per 15. Pen 2.—Hatched from Pen 1 last year, headed by a rooster whose dam laid 232 eggs in her pullet year. \$2.00 per 15. Cash with order. Frank R. Howson, Wingham, Ont.

Wingham, Ont.

TURKEY EGGS—WE HAVE 50 HEALTHY
Bronze Turkey Hens, mated to strong, husky,
young and old toms; eggs ready in season at \$4
per 10 eggs; few toms left. Send in your order, we
have the eggs ready for you. Everything in purebred poultry—write us first. We want your
surplus of eggs and baby chicks. Stamps highly
appreciated. Yamaska Poultry Farms, St. Hyacinthe, Quebec.

WHITE ORPINGTONS—ALDRICH STRAIN, from New York winners, low down, massive kind; hens, pullets, cocks, trio \$15.00, Eggs \$3 and \$5 per fifteen. Wm. Kappler, St. Mary's, Ontario.

50,000 HATCHING EGGS FROM HIGH-CLASS strains of bred-to-lay stock. Single-comb White Leghorns, White Wyandottes, Barred and White Plymouth Rocks. Eggs \$1.50 per 15, \$7 and \$8 per 100. Limited number of baby chicks. Send for circular. C. E. Smith, Scot-land, Ont.

#### 30 cents 34 cents

For large hens ALIVE For chickens (dressed) Above price paid by

WALLERS, 702 Spadina Ave., Toronto Write for price list.

Rose-Comb Rhode Island Reds and Barred Rock eggs for hatching, \$1.50 per 15. Rose-Comb Rhode Island Red cockerels \$3 each. R.R. No. 1, Erin, Ontario Alex. McKinney,

#### Our Serial Story

An Alabaster Box.

BY MARY E, WILKINS FREEMAN AND FLORENCE MORSE KINGSLEY. By arrangement with McClelland, Goodchild & Stewart, Publishers, Toronto, Ont.

CHAPTER XIX.—Continued. He sprang from his chair and began pacing the room.

Wesley Elliot stared at his visitor without speaking. He perceived that the man dragged his feet, as if from excessive fatigue or weakness.

had no thought of such a thing,' the stranger went on. "I'd planned, as a man will who looks forward to release from-from a hospital, how I'd go about and see my old neighbors. I wanted to have them in for dinners and luncheonspeople I haven't seen for ve knows them. She can't excuse herself on that ground. She knows you. He stopped short and eyed the minister.

a slow grin spreading over his face. "The last time you were at my house I had a good mind to walk in and make vour acquaintance, then and there. I heard you talking to her. You admire

my daughter: that's easy to see; and she's not such a bad match, everything considered." "Who are you?" demanded the young

man sharply,
"I am a man who's been dead and

buried these eighteen years," replied the other. "But I'm alive still—very much alive; and they'll find it out."

An ugly scowl distorted the man's pale face. For an instant he started past Wesley Elliot, his eyes resting on an rregular splotch of damp on the wall. Then he shook himself.

"I'm alive," he repeated slowly. "And I'm free!

"Who are you?" asked the minister for the second time.

For all his superior height and the sinewy strength of his young shoulders he began to be afraid of the man who had come to him out of the storm. There was something strangely disconcerting, ven sinister, in the ceaseless movements of his pale hands and the sudden lightning dart of his eyes, as they shifted from the defaced wall to his own perturbed face.

By way of reply the man burst into

a disagreeable cackle of laughter: "Stopped in at the old bank building on my way," he said. "Got it all fixed up for a reading room and library. Quite

MARCH 28



Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted and Pet Stock.

TERMS—Three cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 50 cents.

FARM FOREMAN WANTED—A MAN AND his wife alone, or with one daughter or son over twelve years old, as working foreman. The wife will be expected to do the house-keeping for the extra hired help. We surply furnished house and all food. Send particulars as to experience and wages expected. Position open immediately. A. Shaver, Glen Dhu Farm, Whitby, Ont.

FOR SALE-FARM 200 ACRES, FIRST-CLASS buildings and stabling. Brick house, slate roof, modern conveniences. Land all under-tiled; lots of water, good orchard and hardwood bush; also house for hired man. Apply Box 142, Springfield, Ont.

WANTED—SINGLE MAN FOR "WELD-WOOD FARM," must be experienced in all branches of farm work; a good milker, and familiar with feeding and caring for cows on record work. Apply Farmer's Advocate, London, Ont.

WANTED AT ONCE-A SINGLE SCOTCH MAN to work on farm by the year, and also who understands feeding and looking after Shorthorns. State wages per year. Apply to A. J. Fox, Harrow, Ont.

WANTED — GIRL FOR GENERAL HOUSEwork in town residence. Small family; assistance given; good home. Every electrical convenience. Good wages. Summer cottage in Muskoka. Apply with references. Box 87, Hespeler, Ont.

First-class gardener, one who knows his business— to move to Kingston and work on private garden. Must be fully qualified. H. W. RICHARDSON, KINGSTON, ONT.

4 DUAL-PURPOSE SHORTHORN BULLS 11 to 13 months of age, good color, sired by "Oxford Butterfly", from good producing dams; also Registered Clydesdale Stallion, rising 3 years, from imported sire and dam.

J. M. McCallum, Shakespeare, Ontarlo

CREAN

We are in the market for Churning Cream. Twenty-five years'experience should count. You'll find it in our service.

ASK FOR PRICES

The figures of yesterday may be too low Ship to-

The Toronto Creamery

Church St., (It Pays) Toronto

#### SAW-BLADES

l	PRICE	0F	SAW	BLADES	F.O.B.	<b>FACTORY</b>
ł	20		\$4.7	0	26	\$6.90
{	22		5.1	5	28	8.25
ı	24		5.90	0	30	9.25

You can order direct from this list, saving both time and money. Simply mention diameter of blade with size of hole wanted, and remit with ar order. I ship promptly.

My Catalogue, "The Heart of the Farm,

illustrating Lundy Oil Engines, Saw Frames, Grain Grinders, Etc., sent on request.

A. R. LUNDY, 257 KING STREET WEST, . . TORONTO

3 Imp. Clydesdale Stallions

Pacific [13173], approved form A 1. Gartley Forever [8412], approved form A 1. King's Arms [6117], passed form 1,

W. L. MOSSIP, ST. MARY'S, ONT.

Extra quality, hand picked. Samples sent. For sale — \$10.00 per bushel. Sacks tree.

Adam Bingham, Millbank, Ont.

For Sale — Clydesdale Stallion Dan. Spencer (16550), foaled May 12th, 1914; bay stripe, four legs white, best of feet and legs was first in class and Reserve Canadam-bred Champion at Ottawa Fair, 1917. Sire, Sir Spencer Imp. (9655) 13211. Dam, Delmena Queen of Cherry Bank (20240).

ALBERT NUSSEY

a nice idea for the village.:s. I'd planned something of the sort, myself. Approve of that sort of thing for a rural population. Who-was the benefactor in this case -eh? Take it for granted the villagers didn't do it for themselves. The women in charge there referred me to you for information. . Don't be in haste, young man. I'll answer your question in good time. Who gave the library, fixed up the building and all that? Must have cost something.

The minister sat down with an assumption of ease he did not feel, facing the stranger who had already possessed himself of the one comfortable chair in the room.

"The library," he said, "was given to the village by a Miss Orr, a young woman who has recently settled in Brookville. She has done a good deal for

the place, in various ways."
"What ways?" asked the stranger, with an air of interest.

Wesley Elliot enumerated briefly the number of benefits: the purchase and rebuilding of the old Bolton house, the construction of the waterworks, at present under way, the library and reading room, with the town hall above. "There are, he stated, "other things which might be mentioned; such as the improvement of the village green, repairs on the church, the beginning of a fund for lighting the streets, as well as innumerable smaller benefactions, involving individuals in and around Brookville.'

The man listened alertly. When the minister paused, he said:

"The young woman you speak of appears to have a deep pocket."

'The minister did not deny this. And the man spoke again, after a period of frowning silence:

"What was her idea?-Ore, you said her name was?—in doing all this for Brookville? Rather remarkable—eh?"

His tone, like his words, was mild and ommonplace; but his face wore an ugly neering look, which enraged the minister.

"Miss Orr's motive for thus benefiting a wretched community, well-nigh ruined years ago by the villainy of one man, should be held sacred from criticism, he said, with heat.

"Well, let me tell you the girl had a motive-or thought she had," said the stranger unpleasantly. "But she had no right to spend her money that way. You spoke just now of the village as being ruined years ago by the villainy of one man. That's a lie! The village ruined the man. Never looked at it ruined the man. Never looked at it that way; did you? Andrew Bolton had the interests of this place more deeply at heart than any other human being ever did. He was the one public-spirited man in the place. . Do you know who built your church, young man? I see you don't. Well, Andrew Bolton built t, with mighty little help from your whining, hypoceitical church members. Every Tom, Di k and Harry, for miles about; every old maid with a book to ell; every cause—as they call the thousa and one pious schemes to line their own pockets -every damned one of 'em came to Andrew Bolton for money, and he gave it to them. He was no hoarding skinflint; not he. Better for him if he been. When luck went against him, as t did at last, these precious villagers turned on him like a pack of wolves. They killed his wife; stripped his one child of everything—even to the bed she slept in; and the man himself they buried alive under a mountain of stone and iron, where he rotted for eighteen

The stranger's eyes were glaring with naniacal fury; he shook a tremulous ellow finger in the other's face.

"Talk about ruin!" he shouted, "Talk about one man's villainy! This damnable village deserves to be razed off the face of the earth! . . But I meant to forgive them. I was willing to call the

A nameless fear had gripped the younger man by the throat. "Are you -?" he began; but could not

speak the words,
"My name," said the stranger, with astonishing composure, in view of his late fury, "is Andrew Bolton; and the girl you have been praising and—courting s my daughter. Now you see what a sentimental fool a woman can be. Well: I'll have it out with her. I'll live here in Brookville on equal terms with my neighbors. If there was ever a debt between us, it's been paid to the utter most farthing. I've paid it in flesh and Brysonville, Quebec blood and manhood. Is there any mone

—any property you can name worth eighteen years of a man's life? And such years-God! such years!

Wesley Elliot stared. At last he understood the girl, and as he thought of her shrinking aloofness standing guard over her eager longing for friends-for affection, something hot and wet blurred his eyes. He was scarcely conscious that the man, who had taken to himself the name with which he had become hatefully familiar during his years in Brookville, was still speaking, till a startling sentence or two aroused him.

"There's no reason under heaven why you should not marry her, if you like. Convict's daughter? Bah! I snap my fingers in their faces. My girl shall be happy yet. I swear it! But we'll stop all this sickly sentimentality about the money. We'll-

An immense yearning pity for Lydia had taken possession of him; but for the man who had thus risen from a dishonorable grave to blight her girlhood he felt not a whit.

"You'd better keep quiet," he said sternly. "You'd far better go away and leave he to live her life alone." You'd like that; wouldn't you?"

said Bolton dryly. He leaned forward and stared the young

man in the eyes.

"But she wouldn't have it that way. Do you know that girl of mine wouldn't hear of it. She expects to make it up to me. . Imagine making up eighteen

years of hell with a few pet names, a soft bed and—"
"Stop!" cried Wesley Elliot, with a gesture of loathing. "I can't listen to

"But you'll marry her-eh?"

Bolton's voice again dropped into a whining monotone. He even smiled deprecatingly.

You'll excuse my ranting a bit, sir It's natural after what I've gone through. You've never been in a prison, maybe. And you don't know what it's like to shake the bars of a cell at midnight and howl out of sheer madness to be off and away-somewhere, anywhere!"

He leaned forward and touched the

minister on the knee. "And that brings me back to my idea in coming to see you. I'm a level-headed man, still-quite cool and collected, as you see - and I've been thinking the

He drew his brows together and stared

hard at the minister.

"I've a proposition to make to youas man to man. Can't talk reason to a woman; there's no reason in a woman's make-up-just sentiment and affection and imagination: an impossible combination, when there are hard realities to face. . I see you don't agree with me but never mind that; just hear what I

But he appeared in no haste to go on, for all the eagerness of his eyes and those pallid, restless hands. The minister got momentarily becoming intolerable; must have time to think it over, he told himself, and determine his own relations to his new and unwelcome parishioner

"None of that," growled Bolton. Sit down, young man, and listen to what I have to say to you. We may not have

His assumption of a common interest between them was most distasteful; but for all that the minister resumed his

"Now, as I've told you, my daughter appears unwilling to allow me out of her sight. She tries to cover her watchfulness under a pretense of solicitude for my health. I'm not well, of course; was knocked down and beaten about the head by one of those devils in the prism -Can't call them men; no decent man would choose to earn his living that way, But cosseting and coddling in a warm house will never restore me. I want freedom-nothing less. I must be out and away when the mood seizes ne night or day. Her affection stifles me at times. You can't understand that, of course; you think I'm ungrateful, no doubt;

and that I ought-"You appear to me, a monster of selfishness," We ley Ellist broke in.
"You ought to stop thinking of yourself

eighteen years of prison don't grow the domestic virtues? A monster of selfishness? You're dead right. I'm all of that: and I'm too old to change. I can't play the part of a doting father. I thought I could, before I got out; but I can't, Twice I've been tempted to knock her down, when she stood between me and the door. . Keep cool; I didn't do it! But I'm afraid of myself, I tell you. I've got to have my liberty. She can have hers. Now here's my proposition: Lydia's got money. I don't know how much. My brother-in-law was a close man. Never even knew he was rich. But she's got it-all but what she's spent here trying to square accounts, as she thought. Do they thank her for it? Not much. I know them! But see here, you marry Lydia, whenever you like; then give me ten thousand dollars, and I'll clear out. I'm not a desirable fatherin-law; I know that, as well as you do. But I'll guarantee to disappear, once my girl is settled. Is it a bargain?"

Elliot shook his head.

"Your daughter doesn't love me," he

Bolton flung up his hand in an im-

patient gesture of dissent.
"I stood in the way," he said. "She was thinking of me, don't you see? But if I get out—Oh, I promise you I'll make myself scarce, once this matter is settled."

"What you propose is impossible, on the face of it," the minister said slowly, 'I am sorry-

Impossible! Why impossible?" shouted Bolton, in a sudden fury. "You've been courting my daughter-don't try to crawl out of it, now you know what I am. I'll not stand in the way, I tell you. Why, the devil-

He stopped short, his restless eyes roving over the young man's face and

figure

'Oh, I see!" he sneered. "I begin to understand: 'the sanctity of the cloth' 'my sacred calling'-Yes, yes! And perhaps my price seems a bit high: ten thousand dollars-

Elliot sprang from his chair and stood over the cringing figure of the ex-convict.
"I could strike you," he said in a smothered voice; "but you are an old man and—not responsible. You don't understand what you've said, perhaps;

and I'll not try to make you see it as I 'I supposed you were fond of my girl, But the look in the younger man's eyes stopped him. His hand sought his

heart in an uncertain gesture.

"Have you any brandy?" he asked feebly.

"I—I'm not well. No matter; I'll go over to the tavern. I'll have them take me home. Tired, after all this; don't feel like walking.

(To be continued.)

#### Gossip. A Big Sale.

Attention is directed to the big sale advertisement in another column in this issue, to be held at Lot 20, Concession 3, Oro, near Barrie, on Thursday, April 4. James A. Caldwell, of Shanty Bay, is selling at this time and place his entire farm stock, implements, a fifty-acre wood lot and a thirty-four-acre pasture farm. In the live stock are included two choice, registered Clydesdale stallions, one by Baron Solway and the other a colt with five registered dams and by Imported Solway King, a horse which will be included in the sile. There are three registered Clydes lale females including a two-year-old filly, a three-yearold carrying a foal, and a nine-year-old, sired by such good sires as Baron Gartley and Imported Mellinside. Four young work horses will go to the highest bidder In registered Shorthorns there are ten head of young females by such sires as Imported Newton Ideal, Imported Royal Mastodon, and Superb Chief. These young cows and heifers should meet a ready sale and bring good prices. One bull, Royal Mastodon, will be sold. In sheep there are twelve registered Cotswold ewes, three registered ewe lambs, and one registered ram lamb, and in pigs there are three registered Yorkshire sows, well on in farrow, as well as eighteen store pigs. The farm implements and machinery are all in good repair and include everything necessary to work a large up to-date farm. Remember the date, April 4. Trains will be met at Barrie on the morning of sale.

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# Tried, Proven

The Government of Canada, realizing the increasing difficulties which the farmers of Canada are facing through labor shortage, have carefully examined the help problem on the farm with the idea of eliminating extra work and drudgery.

Here is the Government's answer to every farmer and dairyman: "A partial solution of the labor problem is the milking machine."

Empire Milking Machines have been used for over three years on the Government Experimental Farm at Ottawa,and in view of their past performance, the Dominion Government has now placed an order for six more Empire outfits to be installed on the following Experimental Farms: Fredericton, N. B., Lennoxville, Que., Cap Rouge, Que., Ste. Anne de la Pocatière, Que., Lacombe, Alta., Brandon, Man.



## Actions Speak Louder Than Words

Empire Milking Machines are a good investment as they enable one man to do the work of three hired men in the same time. A boy can operate an Empire with ease.

Empire Milking Machines can be installed and operated at small cost,—the initial investment soon being paid for in time and labor saved.

The cost of operating an Empire for one year is just a fraction of the cost of boarding the hired man, aside from his wages—in one year, your saving is enormous.

Empire Milking Machines milk in Nature's way. The action of the teat cups is that of the sucking calf, massaging the teats from tip to udder, gently and uniformly—the same way at every milking.

The experience of thousands of farmers and dairymen is: that cows and heifers take readily to being milking by an Empire. The soft, gentle massaging of teat cups sets up a pleasing sensation which causes the cow to give down readily and stand content while being milked. Empire Milking Machines will lengthen the cow's period of lactation.

Empire Milking Machines are easy to care for. Simple in construction, these machines do their work with speed and efficiency and can be operated by man, woman, boy or girl.

We know of no Empire Milking Machine that is not giving absolute satisfaction and doing all we claim it will do-

Dozens o men, just like yourself, use Empire Milking Macinics and cannot say enough in their praise of the machine and its value to them.

Information saves money so write us today for booklets, testimonials and detailed particulars.

ASK FOR CATALOGUE 10

The Empire Cream Separator Co. of Canada, Limited TORONTO. MONTREAL.

On March 6, 1918, the Dominion Government ordered six more Empire Milking Machine outfits.

Exact Copy of Government Circular issued to Farmers of Canada.

## Dominion Experimental Farms.

J. H. GRISDALE. Special Circular No. 13. GEO. W. MUIR. B.S.A.

## **MILKING MACHINE**

A PARTIAL SOLUTION OF THE LABOUR PROBLEM

They will take the place of that extra hired man so hard to obtain at the present time. Unlike that hired man so nard to obtain at the present time. Unlike that hired man they are always there ready for work. Their work is noted for its uniformity from day to day. Milking machines are now recognised

#### AS A GOOD INVESTMENT

One man with a milking machine can milk twenty to twentyfive cows per hour. This number would take three men at hand milking. The real drudgery of the dairy farm is eliminated by the use of the milking machine.

The object of this circular is to put before the dairy farmer the value of the mechanical milker under the present conditions of labour on the farm.

There has been in the minds of many dairy farmers a great deal of prejudice against the use of a mechanical milker, but the present is no time to let prejudice stand in the way of increased production.

Every dairy farmer with a herd f 12 or more cows should consider seriously the installation of a milking machine.

The experience of an ever-increasing number of practical farmers, coupled with that of a number of our Experimental Farms and Stations, goes to prove that these machines are decidedly advantageous.

The average cost of installation, taking into consideration the five most popular machines on the market, would be about \$500 for an outfit would be large enough for a 25-to 35-cow herd.

For a 20-cow herd a 3-cow outfit would be sufficient.

For each reduction of one unit in the installation there will be a reduction of approximately \$100 in the cost price.

This brings the average cost price to \$16.60 per cow for the large herd; \$20 per cow for the medium-sized herd; and \$25 per cow for the small herd.

This in turn goes to show that while the cheapest installation for work done is with the large herd, nevertheless the first cost is not excessive in the case of a small herd.

The annual cost of operation for a 25-to 35-cow

COST OF OPERATION

The annual cost of operation for a 25- to 35-cow outfit, including repairs, power, labour in caring for engine and washing machines, interest on investment, and ten per cent depreciation on machine, would amount to approximately \$225.

The above is approximately one-third of what the farmer is at present paying his hired man, where board is not taken into account. Divided between 30 cows, this brings the running expenses to two cents per cow per day. cents per cow per day.

ABOVE COST COMPARED WITH COST
OF HAND-MILKING

can milk 20 to 25 cows per hour, which had milking. One man with a milking machine milking, including the above-mentioned daily running expenses, to 4.5 cents per cow per day.

This is a saving of considerably over one-third and in a large herd would enable the farmed to dispense with a least one, if not two, men, or it would liberate these men for other important lines of increased

OF SERVICE

or it would liberate these men for other important.

It also enables one man to milk many more cows than it is physically possible for him to milk by hand.

Not only does a machine decrease the cost of milking, but it gives uniformity in milking. All cows are milked in the same manner every day, and every good dairy farmer knows this is important and that it is hard to obtain with the general run of farm hands.

A machine when properly installed and

A machine when properly installed and equipped with a reliable source of power is always there ready for work.

Breakdowns are comparatively rare and usually easily remedied.

Wear and tear is not excessive, considering the nature of the machine, and provided the latter is given proper attention.

EFFECT ON QUALITY

A machine that is properly adjusted and handled will not injure the cow's teats or udder any more than the average farm hand.

Three years' experience of mechanical milkers on the Central Experimental Farm does not show that the cows dry off any more quickly than when milked by hand.

There is no more, if as much, objection to the milking machine on the part of the cows than there is to hand-milking.

Old cows used to hand-milking object most, and may not let down their milk readily, but heifers take to machine milking like ducks to water and require hardly any stripping.

Stripping by hand after taking the machine off is advocated by all users, as well as makers, as a precautionary and economical measure.

EFFECT ON QUALITY
OF MILK

If the machines are properly handled in the barn, and likewise properly washed in the dairy, the milk a very high grade of milk can be produced.

Careless handling results in bad milk and ultimate failure of the machine.

Last, and of far more importance than the cost price or make of the machine, comes the question of the efficiency of the IMPORTANCE OF EFFICIENCY IN

OPERATION

Handling the machine is a job for the farmer, his son, or some hired man who has an interest in the success of the machine and the cows.

For best results the operator must be quick and quiet, with an eye

for details.

Know the machine and the cows, and adapt the one to suit the other, giving each their proper share of attention at the proper time.

Any of the more prominent makes of milking machines upon the market will do good work provided they are properly handled.

The addresses of the dealers or manufacturers of the various machines can be procured from the farm journals, or upon application to the Animal Husbandry Division, Experimental Farm, Ottawa.



## Has the Confidence of the Careful Farmer

DAGE Wire Fences are chosen by careful, shrewd farmers, for many reasons. But it is because of the length of service that every Page Wire Fence gives that accounts, in no small measure, for its ever-increasing number of buyers, in preference to all other makes.

### PAGE WIRE FENCES ARE BUILT TO LAST

There is nothing extraordinary in Page Fences to cause them to last so long, except that they are made for that very purpose. We know what makes a fence that "stays put" and we manufacture it accordingly — with the utmost care and the very best of materials.

Only No. 9 gauge wire is used throughout, locks and all. It is subjected to an extra coat of galvanizing to give double resistance against rust. Every inch is tested and inspected before leaving our factories, so that we are able to know for a certainty that every Page Fence is rigid, tight-locked, evenly spaced — that it will give a lifetime of wear to its owner.

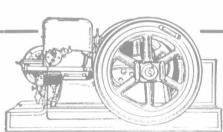
Choose as your next fence the Page Wire Fence and you will never have cause to regret it.

With Page Fences and Page Gates on your farm, your fence troubles are over forever.

Write, or call at our nearest branch for further particulars about Page Fences and Gates.

If you are interested in the Page Farm Engine or Page Wood Saw, we will also be pleased to tell you all about them.

Shipping Terms: Freight allowed on all shipments of 200 pounds or over, to any place in Old Ontario or Quebec, when payment is made within 30 days.



#### This Farm Engine Will Help You

With labor so scarce, inexperienced and high priced a Page Engine will prove its worth in a few short weeks. Page Engines are built for farm work. You can afford

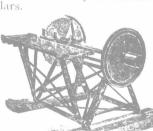
a Page Engine because it will actually save you many dollars in the first few weeks you have it. Two types and five sizes to choose from—one type burns gasoline,

the other, kerosene. Sizes from 11/2 h.p. to 7 h.p. Let us help you choose the Page best suited to your needs. Write our nearest branch for full particulars.

#### A Wood Saw For You

The shaft is 4-foot-6-inch lathe-turned steel, that runs in well-habited, dust-proof, non-heating boxes. It will keep in good working order at all times.

The tilting table has a roller at one end to make long poles easy to handlethe balance-wheel and pulley are inter-



## THE PAGE WIRE FENCE COMPANY

517 Notre Dame Street, Montreal

Walkerville, Ont.

Winnipeg, Man.

#### Gossip.

Jas. Douglas, of Caledonia, writes as follows regarding the two head of cattle entered in the London Shorthorn sale, to be held April 2 and 3: "I wish to draw attention of the readers of "The Farmer's Adversary" to the two head of cattle L have Advocate" to the two head of cattle I have listed in the London sale, a bull and a heifer by the great Browndale, and grandly bred on their dam's side. They are an extra good pair of the low-down, thick, smooth kind, with great substance and hair. The bull is from one of my very best cows and looks like a real good kind to breed from. The heifer is bred right from a good Diamond heifer, by Roan Chief Imp., and will weigh over 1,200 lbs. at seventeen months. Look them up, also their breeding, and get some Whitehall Sultan blood through Browndale.'

Sale Dates.

March 28, 1918.—G. A. Brethen, Norwood, Ont.—Holsteins.

April 2 1019 April 2, 1918-N.S. Washington, Solina,

Ont.—Holsteins.
April 2, 1918.—Brant District Holstein Breeders' Club Consignment Sale, Brant-

ford, Ont.-Holsteins. April 2 and 3, 1918.—Ontario Consignment Sale Company, London.-Shorthorns.

April 2, 1918.-Menie District Ayrshire Breeders' Club, Campbellford, Ont. -Pure-breds.

April 3, 1918.—Belleville District Holstein Breeders' Club Consignment Sale, Belleville, Ont.—Holsteins.

April 4, 1918.—Jas. A. Caldwell, Lot 20, Con. 3, Oro, near Barrie.—Clydes-dales Shorthorns, Cotswolds, Yorkshires. April 5,1918—Dunrobin Farms, Beaverton, Ont.-Holsteins.

April 10, 1918.-T. G. Gregg, R. 5, Ingersoll, Ont.—Holsteins. June 11, 1918.—Dr. A. A. Farewell, Oshawa, Ont.-Holsteins.

Champion Bred Gregg Holsteins. The sixty head of Holsteins which G. Gregg, Ingersoil, Ontario, will sell at auction on April 10 are the result of breeding from a herd established years ago when twelve young females were selected from the herd of Walburn Rivers, of Pioneer Stock Farm. The following champions were produced by Mr. Rivers. The three-year-old R. O. P. champion, Calamity Snow Mechthilde 2nd; the Canadian R. O. P. champion two-year-old heifer, Duchess Wayne Calamity 2nd; also Calamity Posch Wayne 3rd, champion of the dairy test at the Ontario Provincial Winter Fair in 1913. This is the kind of blood represented in the herd to be sold by Mr. Gregg on April 10. The first bull to be used on the Gregg herd was Homestead Dewdrop King, a son of Belle Dewdrop, and sired by Dutchland Colantha Sir Abbekerk. The next bull in service was King Isabella Walker. The present herd sire is Centre View Calamity Segis, which carries the blood of the two great Kings, King Walker and King Segis. His dam, sire's dam, and dam's sister average 29.46 lbs. butter in seven days. His dam was the winner of first prize in the dairy test at the Ontario Winter Fair, Guelph, 1912. Fully ninety per cent. of this herd carry the blood of the above champions. See the advertisement and write for a catalogue.

#### Garden Competition for Vegetable Growers.

The Secretary of the Ontario Vegetable Growers' Association, J. Lockie Wilson, Parliament Buildings, Toronto, has sent out notification regarding competitions to be conducted in 1918. The Province is to be divided into four districts, as

1. Ottawa, Kingston, Belleville.
2. Toronto W. II. Toronto, Welland, Clinton and Louth.

London, St. Thomas, Stratford, Brantferd. 4. Blackwell, Sarnia, Tecumseh, Sarnia

Independent. In the Vegetable Field Crop Competition the plots entered must not be less than one-quarter of an acre in one block, out members may compete in any or all of the six crops mentioned, namely, onions, celery, tomatees, cabbage, early potatees, muskmelons. Members wishing o enter these competitions should notify their local secretary promptly. In the garden competition the minimum is three acres of land, but if the plot contains a greater acreage than the above, the whole will be judged. Entries in this competition should also be made to the secretary of the local branch.

### Markets

Continued from page 537.

the latter range also applying to brown comb and white extracted.

Eggs.-It is evident that the price of eggs will not be low this season, although it will be much lower than at present. American eggs are still coming in, and receipts of Canadians are constantly increasing. The price of either was 48c. per dozen, in a wholesale way The agitation to sell eggs by the pound

was again on, but failed.

Butter.— The market displayed a slightly easier tone, but prices do not show change, being 48½c. to 49c. for forcet fall. finest fall make, and 1c. less for fine. Current receipts were quoted at 46c. to to 47c., and dairies at 40c. to 411/2c.

Grain.—The demand for oats has been fair, but the market has sold off slightly. Quotations were: Canadian Western and extra No. 1 feed, \$1.07½; No. 1 feed, \$1.05½; No. 2, \$1.03; Ontario No. 2 white, \$1.07; No. 3, \$1.041/2; No. 4, \$1.03, ex-store.

Flour.—The dearest flour on the list for some time past has been rye-flour, and last week a strong advance took place, carrying the price to \$7.20 per Otherwise, the market is about bag. steady, Government standard Manitoba spring wheat flour in car lots for country points \$11.10 per barrel, in bags, f. o. b. cars, Montreal, and 10c. extra delivered to city bakeries. Ontario winter wheat flour \$11.40 to \$11.50 in broken lots, ex-

Mill-feed.—Prices were steady at \$35 per ton for bran, in bags; shorts, \$40; mixed mouille \$60 to \$62 per ton; pure grain mouille, \$68 to \$70.

Baled Hay.—The market was firm at \$17 per ton for No. 2 baled hay, extrack; No. 3, \$15.50, and clover mixture \$12.

Seeds.—Trade was fairly active. The demand from country points was good. Prices f. o. b. Montreal were as follows: Timothy 9c. to 14c. per lb.; red clover, 36c. to 40c. pe lb.; alsike 22c. to 29c, per

Hides.-The market was steady. Beef hides 15c. to 16c., and 17c. per lb., Montreal inspection; 19c. for steers, 13c. for cows, and 12c. for bulls, flat. Veal skins 34c. to 36c. per lb; spring lambs 35c. each; sheep skins, \$4.50; horse hides, \$5 to \$6. Tallow 3½c. per lb. for scrap fat; 8c. for abattoir fat; renderd tallow, 15c. to 16½c. per lb.

#### Chicago.

Cattle—Beeves, \$9.50 to \$14.35; stockers and feeders, \$8 to \$11.90; cows and heifers, \$7.10 to \$12.15; calves, \$10.50

Hogs-Light, \$17.25 to \$17.95; mixed, \$16.90 to \$17.90; heavy \$16.25 to \$16.60; rough, \$16.25 to \$16.60; pigs, \$13 to

Sheep—Native, \$11 to \$15; lambs, native, \$14.50 to \$18.75.

Dunrobin Farms Holstein Sale. On account of the shortage of help and poor railway service for delivery of milk from Beaverton, the proprietor of Dunrobin Farms has decided to sell the entire herd of 45 choicely-bred Holsteins. The train connections to Beaverton are not convenient for a sale of this kind, so arrangements have been made to hold the sale at the Union Stock Yards, West Toronto, on Friday, April 5, at one p.m. The foundation cows of this herd were selected by the late Donald Gunn, probably one of the best cattle judges in Ontario. The sires used have always been of high quality from the standpoint of type and production. The sale is a breeder's sale, and with the exception of the herd sire, Echo Segis Champion, all the offering are females. The sires used at Dunrobin Farms include the following: Earl Tenson, Prince Victor of Manor, Sir Mercedes Netherland, Lakeview Hengerveld Rattler, Sunnybrook Oakland Boy, and the present choicely-bred bull, Echo Segis Champion. He is sired by May Echo Champion, the well known full brother of the world's record cow, May Echo Sylvia, and out of a high-testing daughter of Sir Lyons Hengerveld Segis, which is a son of the great King Segis and Blanche Lyons De Kol, 33.31 lbs. butter in seven days. The cows are an extra fine lot, of good type and size and have been well cared for. They give every indication of being heavy producers. Write for a catalogue to Dunrobin Farms, Beaverton, Ont.

MARCH 28.

We had a m

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always went work on the was that he hustling and and death wer was hard wor man. It used must hurry, comfortable, knew things w as nervous as caught the fev turned round milking, as if going to happ on the farm n well and move some factory. what sort of a If he carried with him, I wi wastes a good his employers for wasted ti For the man v surely does m do as much in will not be as goes steadily o things out righ count.

It is worth w the habit of earlier in life t easier it will b keep calm and thing out. A High Schools of forgot anything that the moments she went and d take a certain school-room and gotten when he book, she imme returned for it. to fix the habit time.

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#### From a Farmer's Wallet.

We had a man in our neighborhood who always went on the run when doing his work on the farm. No matter what it was that he was doing, he was always hustling and puffing and acting as if life and death were at stake all the time. was hard work to stand and watch this man. It used to make us feel as if we must hurry, too. Everybody was uncomfortable, even to his horses. They knew things were not going right and were as nervous as he was. The cows, too, caught the fever and stood with one eye turned round toward him when he was milking, as if they wondered what was going to happen next. That man is not on the farm now. He did not get along well and moved away to town to work in some factory. I have often wondered what sort of a hand he would make there. If he carried the same habits of haste with him, I will venture to say that he wastes a good deal of material and costs his employers more than one dollar a day for wasted time, strength and energy. For the man who rushes along that way surely does miss the mark. He cannot do as much in a day, and what he does will not be as good work as a man who goes steadily on about his work, planning things out right and making every action

It is worth while for young folks to get the habit of doing things right. The earlier in life they begin to do this, the easier it will be for them in later life to keep calm and steady and think everything out. A lady teacher in one of our High Schools once told me that she never forgot anything she intended to do, but that the moment she thought of it again she went and did it. If she intended to take a certain book with her from the school-room and forgot it, no matter how far on her way home she might have gotten when her mind went back to the book, she immediately turned round and returned for it. A few such trips helped to fix the habit of remembering the first time.

The fact is we ought never to be satisfied unless we do things right. Suppose the cap of the radiator on the automobile gets twisted when we start to put it on. It cannot be screwed down tight. Why try it? Stop, back up, start the cap so that the threads will match. Then turn it down. The same way with the cover to a fruit can. Start it right, if it takes a dozen times of trying. Don't be satisfied by saying, "I did not think." Keep your thinking cap on. That is what it is given you for. Go back if you did not start right. Let no slip-shod habit conquer

For the call everywhere is for men and women who can and will do the right thing and do it right. From one end of his life to the other the railway engineer must keep his mind on what he is doing. It will not do for him to run past a signal or to make a mistake in the way a lamp on the switch is set. He must not sit up in his place and let his engine get to pounding anywhere, thinking, "She will go through all right to the end of this run." A wreck may send him and his train into the ditch long before he reaches the home station. He knows that the right thing to do is to report that his engine is out of order, stop and put the wrong part right, or if he cannot do it, send in for another engine.

"But," do you say, "none of us are running locomotives or doing anything that places life in jeopardy." No, but we are working with valuable machinery. Are we always as careful before we start out to see that everything is as it should be, every nut turned up tight, the bearings all oiled properly, nothing grinding anywhere, each piece of the mechanism doing the work for which it was designed? A careful hand can add years to the life of the farm machinery. Putting away a pitch-fork may seem a simple thing. How many have been sadly injured and perhaps killed, by slipping down on the stale of a fork that has been carelessly left leaning against the side of a haymow! Cows are dried up by careless, hurried, indifferent milking. It pays to do this work well. There is such a thing as milking a cow in a workmanlike manner.

After we get along in years, we learn to do our work well at greater cost. The mind now runs in channels that are pretty well defined. It is a greater effort now to pull oneself up, and say, "Now, see here, old man, that was not done as it ought to have been, and you know it. Go and do it right." But it can be done. The most encouraging thing about all life

is, that there is always a chance to do better. Young or old, poor or rich, high or low, we are all capable of making improvement in everything we undertake. I know an old man who has only recently learned to write with a pen. He has lost the best part of life because he neglected this when he was young; but you cannot imagine how happy he is now that he can write a fair hand and read pretty well. Doing all things well never fails to bring with it a sense of conquest. That makes life worth living.—EDGAR L. VINCENT.

## Questions and Answers. Miscellaneous.

#### Guinea Pigs.

- Where can I purchase guinea pigs?
   What hospital would be liable to buy them for experimental purposes?
- Ans.—1. Place an advertisement in these columns.
- 2. Write the Institute of Public Health, London, Ont.

#### Feed Prices.

If by Order No. 5, the price of bran and shorts is set at \$24.50 and \$29.50, why are market prices quoted at \$35 and \$40?

F. W.

Ans.—These prices as explained in a recent issue of "The Farmer's Advocate" are f. o. b. Fort William. Bag prices, freight and sometimes bagging and dealer charges must be added as outlined in our issue of March 7, page 366.

#### Record Holstein.

Will you kindly make clear to me, through the medium of your valuable paper, why the son of the well-known cow May Echo Sylvia is referred to as a 44-lb. bull? Thanking you in anticipation.

R. F. L.

Ans.—We suppose the reference is made on the strength of his dam's record of 44 lbs. butter in seven days. It would be more correct to refer to the bull as a son of a 44-lb, cow.

#### Contracts—Quack Veterinarian.

- 1. Would I have to notify the township council and also the contractor to stop them carrying out the contract?

  2. If a man makes a base of the contract?
- 2. If a man makes a business of practicing as a veterinarian but is not a graduated veterinarian, can he be held responsible the same as a regular veterinarian?

  A. B. C.
- Ans.—1. What contract? If it is township work, interfering with your rights and property, notify both.
- 2. No man has a right to practice as a veterinarian unless he has his graduation papers and could not be held responsible nor could he set fees.

#### Pigs Die.

Young sow had litter of 5 pigs. At the age of 4 weeks one pig was found dead in pen from no apparent cause. Next morning another was crippled across back and in hind legs, gradually getting worse, until death came a day and a half later. Sow has been fed on oats finely ground and seems to have a good supply of milk. What is the cause of this, and remedy if any?

Ans.—It is impossible for us to say what ailed the first pig. The second may have been injured by the sow. Pigs may be over-fat, as small litters sometimes get. Feed sow on slop and light feed. Give exercise, and if possible let the pigs have a little outside run on warm days.

#### Bad Seed Corn.

I went to a farmer in January looking for seed corn. I asked him if he had any seed corn for sale. He said he had. I bought 100 bushels at \$4.00 per bushel. I went back in a couple of weeks. He helped me pick it out. He did not guarantee it. I did not ask him to. I shipped it and sold it out for seed corn and it has proven no good. I have asked him to make it right; he does not think he is responsible. Have I any claim on him, if so how should I go about it?

Ans.—You would have no case against the man who sold you the corn. He didn't guarantee it as to germination and, no doubt, had not tested it at all. You should have bought subject to test.



GOLD DUST'S specialty is dissolving grease. Greasy dairy utensils, for example, are quickly made sweet and clean with Gold Dust. Try Gold Dust on the churn, separator, butter paddles and other things.

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MADE IN CANADA



## Cream Wanted

It will pay you to ship us your cream. We pay express out on empty cans and express in on your cream. We remit for every can DAILY. We supply cans.

WE WANT YOUR CREAM.

LINDSAY CREAMERY, LIMITED, Lindsay, Ont.

# The Final Phonograph

Designed—not adapted—to play ALL records





Why restrict your choice of records when you can have a phonograph that will play perfectly any and every make of record?

The Brunswick "had to come!" Just as we have seen the automobile perfected during the past fifteen years, so those in the phonograph industry have been watching and waiting for the Final Phonograph. And it has arrived—it is the Brunswick.

In the Brunswick all the best features of all the best phonographs have been frankly adopted. And, with some added refinements of beauty and finish, this wonderful phonograph is priced to you without the necessity of charging for discarded models or experiments.

Among other features that lift the Brunswick above all others is the perfected tone chamber, which, like a violin, is built entirely of wood—white holly, backed by spruce.

### Find Out for Yourself

MADE IN CANADA

Models from **\$45** to **\$250** 

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Get the full details concerning the Brunswick. Fill in and mail us to-night the attached coupon and let us send you a booklet that will give you the full story of the Brunswick—"All Phonographs in One," as well as a list of Brunswick Records.

The Brunswick Plays Better, Looks Better and Costs Less.

MUSICAL MERCHANDISE SALES CO.

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Please send me booklet showing how the Brunswick plays ALL records better.

Name

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Every item in the Rennie 1918

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ROOD production—that is the big cry for 1918. Everyone must produce as much as possible—which means every available square

catalogue represents unexcelled value, but the items in star borders are simply wonderful. yard under cultivation, and the widespread use of Rennie's BEANS—Rennie's Stringless Green Pod BEET—Rennie's Spinach Beet

CABBAGE—Rennie's Werldbeater .10
CARROT—Rennie's Market Garden .10
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ONION SETS—Yellow Sets—Selected.

.35 1.70 **FLOWER SEEDS** New Red Sunflower. . Rennie's XXX Mammoth Flowering Hollyhock-Mixture.... .20 Mastodon Pansy—Mixture.. 

When buying from dealers, insist on Rennie's. If your dealer hasn't them, we will ship direct.

COMPANY C & MARKET TORONTO

# The One New Idea in Phonographs

The "Organola" Model of our "Phonola" is the only really new idea — the only radical improvement-in phonographs in years.

Into this model we have built tone control pipes. carrying out the principle of the church organ. The tone result is remarkable and marks the "Phonola Organola" as the supreme achievement in phonograph construction.



ILE AZEARS SIL

The "Organola" cabinet is superbly finished. The winding crank is concealed. The motor is noiseless. It is an instrument of real distinction.

Other models of the "Phonola" from \$18 up. They play all makes of disc records.



The Pollock Manufacturing Co., Limited Kitchener, Canada

Gossip.

London Two-Day Sale of Shorthorns.

Before the passing of another week the 1918 spring sale of 150 high-class Shorthorns, selling under the auspices of the Western Ontario Consignment Sale Company, in the city of London, will have come and gone and April 2 and 3 counted as two eventful days in the history of Shorthorns in Canada. One hundred and fifty breeding Shorthorns of the cailbre of those catalogued for London this spring are not often found in one sale-ring in any country and when sold under the liberal guarantee of this firmly established Club, our prophecy of one more successful sale, even at this very early date, should not be so very far out of order. A review of the pages of the catalogue just issued, in so far as good pedigrees go, will assure the prospective purchaser that a stronger aggregation of breeding Shorthorns was never before assembled in one consignment sale-ring in Canada. As individuals we also have every reason to believe that the quality of the cattle throughout are quite on a par with the breeding. The several consignments seen by our representative included cattle of considerably more show style and character than was usually seen in public sale rings of other years, and from these could be picked several individuals that would make promising material for the coming shows. In calling attention to a few of the better bred lots picked at random throughout the catalogue it is only fair to mention that not all of the better pedigrees are referred to, or that the best contained therein are even mentioned, but with both space and time

Royal Purple Poultry Specific Is the big link between few eggs and a full basket. ROYAL PURPLE OULTRY It Increases the Egg Yield Feed Royal Purple Poultry Specific to your fowls daily in a hot or cold mash. It will keep your hens active and healthy by assisting them digest and assimilate the food eaten. If you feed our Poultry Specific according to directions to fowls which are properly housed you will get nearly as many eggs during the winter months as you ordinarily get in the summer. It will pay for itself many times over. Read the following letter from Robt. Cameron, Hensall, Ont. "I have been using your Royal Purple Poultry Specific for the past year and it pays for itself many times over in the extra production of eggs, and it makes my hens lay in the winter when the price of eggs is high." Sold in large and small packages. 80 PAGE BOOK SENT FREE Send for this valuable book which describes the common diseases of poultry and stock. It tells how to build and remodel poultry houses and how to raise calves without mik,

When writing please mention Farmer's Advocate

W. A. Jenkins Mfg. Co. Ltd., London, Canada

limited there has come to our notice a representation of one or more individuals in each of nearly all the more popular families of the day and on the tops of these pedigrees appear such noted bulls as Hillhead Chief (imp.), which has sired two Claret and one Misie bull in the Waldie consignment; Best Boy, the great Canadian bull which is the sire of in the R. & S. Nicholson's allotment; Sittyton Favorite, a grandson of the noted White Hall Sultan, is the sire of nearly all of the good things in the Wallace E. Gibb consignment. G. & W. H. Nichol son furnish a lot of Cruickshank and Marr breeding, several of which are got by their herd sire, Merry Hampton (imp.). Geo. Gier of Grand Valley has two young bulls and two heifers all two young bulls and two heifers all got by Escana Champion, a son of the renowned Right Sort Imp. Kyle Bros. of Spring Valley have six females and two bulls listed, which are with three exceptions all got by their former herd sire, Nonpareil Ramsden. H. C. Robson strengthens the sale with some straight bred Minas, Celias and Waterloo Princesses. Brien & Sons' lot brings in some Lovelys and a well-bred Mary Anne of Lovelys and a well-bred Mary Anne of Lancaster heifer, and H. Smith has among others one 12-months bull by his former noted Springhurst sire, Blarney Stone, and a choice yearling heifer by his present sire, Volunteer, a son of the great Blarney Stone. Several other noted bulls figuring in the various other consignments are Archer Sultan by Superb Sultan, Rosewood Chief, the great "Browndale", sire of a 13-months bull, and a one-year heifer in the Douglas contribution, Senator Lavender; Corsican 5th, Rosemary Pride by Lavender Sultan, and others which altogether make up not only one of the largest but one of the strongest offerings ever seen in an Ontario salering. The sale will commence at 1 o'clock p.m. Tuesday, and at 11 a.m. on Wednesday. For catalogues address H. Smith

MARCH 28



A Photo take in 1915 by F. F. sota College of comb Alfalfa
Grimm. Durir
Liscomb, toute hardy, winterk the winter in e above photo. The same su

met with all o Heavies Feeding

In establishin Seed which is k of my seed I fur I specialize in C overed the A. B. LYMA

Save ON S Leamin

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DITCHE DIGZ ' GRADE EASILY DAICKE CHEAPLY

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Contain a a pure v an econor

This seed was ir 1916; is of the Wing about ten da White Field B F. O. B. Wm

#### LYMAN'S **Guaranteed Genuine**

**Proven Hardiest By Agricultural College Tests** 



A Photo taken of one of the 47 Fields established in 1915 by F. Forbell, Alfalfa Specialist in Minnesota College of Agriculture. On these fields Liscomb Alfalfa was sown along side of Lyman's Grimm. During the following winter most of the Liscomb, touted by some seedsmen as being very hardy, winterkilled—but the Grimm came through the winter in excellent shape, as is shown by the

The same success with Lyman's Grimm has been met with all over the country.

#### Heaviest Yields - Highest In Feeding Value — Best For Seed

In establishing your Alfalfa field, sow Grimm Seed which is known to be genuine. With each lot of my seed I furnish a certificate of its genuineness. I specialize in Grimm Alfalfa only. Book, "How I discovered the Grimm Alfalfa" and seed sample

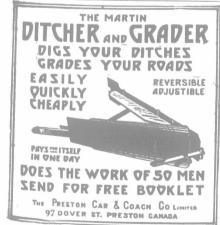
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## We Can **Save You Money** ON SEED CORN

Leaming, Red Cob Ensilage, Mammoth Southern Sweet; guaranteed 85% to 98% germination.

Prices on application. Special inducements on car

MATTHEWS & CO. Watford, Ontario



## McCormick's Sodas

Contain all the elements of a pure wholesome food at an economical price.

This seed was imported from Michigan in 1916; is of the White Field Variety, maturing about ten days earlier than the Native White Field Bean. Price, \$9.00 per bus. F. O. B. Wm. A. Kelly, Rodney, Ont.

#### Transplanting the Tobacco Crop and the Proper Plants to Use

The tobacco crop requires a very thoroughly prepared seed-bed and pays a higher reward for the labor expended in this direction than almost any other

The preparation of the land for tobacco should begin as early in the spring as possible, first by thorough ploughing followed by double discing and harrowing well. After this the land should be harrowed as soon as possible after all rains. By treating the soil in this way a great deal of soil moisture is held in store for the tobacco crop in case of drought. Before planting, the land should be thoroughly cultivated so as to make the soil as loose and mellow as possible.

Transplanting should be commenced after the danger of frest is over, either late in May or early in June. Early transplanting gives the tobacco a chance to grow rapidly and resist the late droughts. It may also be harvested earlier making it possible to use the most suitable fall weather for curing the crop.

When the plants have developed from four to six leaves and are five to six inches in height, they are ready for transplant ing. During the week prior to transplant ing the plants should be "Hardened" by removing the cover from the beds during the greater part of the day, increasing the period each day until finally, if the weather is at all favorable the covers should be left off entirely. The hardening process should not be carried so far as to make the plants woody, because such plants are slow in starting growth in the

About half an hour before drawing the plants for transplanting the bed should be well watered. In drawing, select well formed plants, green and thick set, well provided with roots, and all as equal in size as possible. The greatest care should be exercised to see that all diseased and damaged plants are discarded.

If possible, transplanting should be done on a cloudy or rainy day on in the afternoon, so as to avoid excessive wilting.

Plants that have died or been damaged by cutworms should be promptly reset during the first two or three weeks after transplanting.— Experimental Farms

#### **Questions and Answers.** Miscellaneous.

Cattle Running at Large.

In the Act respecting the protection of pure-bred cattle, what is the meaning of the phrase, "Running at large?" Does it mean running loose on a person's own

Ans.—According to the wording of the Act, male animals are not allowed to run loose on a person's own property, unless in a closed paddock that is of sufficient strength to prevent the animal from getting at large.

Lame Hens.

I have trouble with my small flock of hens. Last summer's hens are laying and look healthy and red about the head, but one by one they are going lame. They are getting rough and scaly on the legs. I keep them dusted with insect powder and keep the pen clean and dry. feeding rolled oats, whole oats and barley, and have gotten from 6 to 12 eggs per day from the 22 hens, since before Christ-mas. The affected birds appear to recover when placed by the heat and fed a little soft feed.

Ans.— Lameness may result from several causes. Birds jumping from high roosts, stepping on glass or frozen ground, will sometimes cause the feet to swell with the resulting lameness. Bathing and applying kerosene is a treatment which usually gives results. Sometimes an abscess will form which may necessitate lancing As the birds apparently recover when placed beside the heat, it is possible that the trouble is due to rheumatism which is an inflammation of the joints and muscles. About the only thing that can be done for this is to keep the birds in dry, well-ventilated houses. Lamenes is one of the symptoms of tuberculosis which is possibly one of the worst disease that infects the poultry yard. Along with lameness other symptoms are that the birds lose in weight, become weak and appear anaemic. They usually have a ravenous appetite. A post-mortem examination generally reveals numerous raised nodules

## "Harnessing the Air" to Save Butterfat

The air is a great wizard. Properly employed, (as in a Sharples Suction-feed Separator) it will save North America more than eighty million pounds of butter which fixed-feed separators waste because 95% of them are turned below speed much of the time.

The Sharples Suction-feed principle really harnesses the air and makes it work for you. By means of the suction-feed, just enough milk enters the tubular bowl as can be perfectly separated. As your speed varies so does the suction-feed. Thus, Sharples saves the cream waste that results when fixed-feed separators are turned under speed.

# GREAM SEPARATOR

## Skims Clean at Any Speed

While air is free to everybody, yet the suction-feed principle is exclusive with Sharples and fully protected.

Bear that in mind when you investigate a separator and insist on knowing if it will skim clean at any speed. Get proof.

There are no discs in a Sharples tubular bowl which adds further to its superiority. The one-piece bowl is easy to clean, easy to turn-even for a boy. Write nearest office for catalog, addressing

Toronto, Ont. The Sharples Separator Co. Rogina, Sask. The Mitchell & McGregor Hardware Co., Brandon, Man.

Distributors for Manitoba

## The Easy Way on Wash Day

Why My "1900" is the Easiest, Quickest and Best Washer for You



EITHER you nor any other woman needs other woman needs to be reminded that washbe reminded that washing is a mighty disagreeable household task by the "wash-tub and wash-board" method. I have discovered that most women are keenly interested in finding some mechanical aid that will remove this most objectionable of drudgeries. That is why

most objectionable of drudgeries. That is why so many Canadian housewives have come to me as the result of my claim that I have the machine that answers the "wash" problem completely. My "1900" Gravity Washer will save you all the work of washing. It does away with all the drudgery of the back-breaking rubbing. It washes clean, because the hot soap-suds are driven right through the clothes until they are thoroughly clean. And does not wear or thoroughly clean. And does not wear or tear the clothes; they are firmly held while the tub and water are in motion. The finest linens and laces or blankets, come out of the "1900" Gravity Washer without having been strained or stretched—without frayed edges or broken buttons.

The "1900' Gravity is operated with an ease

357 Yonge Street

you will marvel at. Gravity is the basic reason for its ease of operation. A child can run it.
"Does it wash with speed?" you will ask. The "1900" Gravity Washer takes just six minutes to wash a tub full of very dirty clothes. Of great importance, too, is the lasting quality of this "1900" Gravity. The tub (detachable, by the way) is made of Virginia White Cedar, bound together with heavy galvanized steel hoops that will not rust, break or fall off. The "1900" Gravity is built for use; it will last a lifetime.

If you are interested, let me tell you more about it. Thousands of Canadian women have written to let me know what a genuine help the "1900" Gravity is to them. A New Brunswick woman says about hers:

"I enclose payment in full for washing machine and wringer. I am very much pleased with the washer. It is the best I have seen. It makes wash-day a pleasure."

Try the "1900" at my expense. I will send

Try the "1900" at my expense. I will send it to you for a free trial, without a cent deposit. Do as many washings with it as you like within the trial period of four weeks, and if you then find that you can afford to do without it, send it back at my expense. If you want to keep it, as I know you will, pay for it out of what is saves you, week by week, 50c. a week if you like, until it is paid for. If you want to know specially about this trial offer, better address me personally.

K. I. MORRIS, Manager "1900" Washer Company TORONTO

**Doctor** Greene says: "The telephone call came at midnight—ten mile drive to the country over ice-covered roads, but the case was urgent. Fortunately I had my tires encased in 'Dreadnaught' chains for just such an emergency, otherwise I couldn't possibly have made the trip in time." saved a life that night—possibly two lives. Are you still taking chances? The best time to get Dreadnaught Chains is before you need them. Why not right now? Ask your

dealer, or write to us for price list and descriptive circular.

You save \$1 to \$3 per set because of our superior manufac-

McKinnon Columbus Chain Limited

Manufacturers of Electric and Fire Welded Chains

ST. CATHARINES - - ONTARIO

PRESTON Implement
Buildings Staunch-Low-Cost-Ready Plan to make more money in 1918 VOU want all the equipframework of an ordinary building. This fireproof throughment, all the buildings, all the machines that can be drive building is 20 ft. x 24 used to increase your crops this year. For never before ft., height 10 ft. to the eaves. We will ship you all ma-terials—the frame members were the chances so great to make enormous profits. cut to fit by rapid money-But before cutting and hauling materials for that new shed get the booklet that tells all about PRES-TON buildings. saving machines, the trusses assembled, windows and doors made complete, the metal siding, and all hard-ware—for \$259. Here is the neat, sturdy good-looking "Acorn" cor-rugated iron building you Big factory resources make this low price possible. Remember, you would have had to raise 224 bushels of Wheat, or 336 bushels of Potatoes, to pay for this building three years ago. To-day 117 bushels of wheat or 170 bushels of need to house your valuable implements and keep them in good working order. potatoes will buy it. It is cheaper to the farmer than before the war. Send for catalogue giving pic-tures, prices and details of PRES-TON buildings. To-day! A handy man with our plans can get this building together in less time than it would take to saw up the The Metal Shingle & Siding Co., Limited Preston, Ont. Makers of Preston Barns, Storage Buildings, Garages and Implement Sheds. This cut shows one of many arrangements of doors that can be supplied TTERCECCECCCENTER CONTRACTOR CONTRACTOR DE LA CONTRACTOR CONTRACTO

## Homemade Syrup From Sugar Beets.

turing facilities.

As one of the consequences of the war the price of granulated sugar has very materially advanced during the past two years. This fact has prompted the inquiry, can a wholesome syrup be made in the home from sugar beets that can be used as a sugar substitute?

To ascertain the possibilities in this direction the Division of Chemistry of the Experimental Farms has been making a number of experiments, taking as a basis the simple process described in the U.S. Department of Agriculture, Farmer's bulletin No. 823. The results of this investigation have shown that a syrup may be prepared from sugar beets which though not palatable for direct use, as on pancakes, porridge, etc., can be successfully employed as the "sweetener" in the making of buns, muffins, cookies and gingerbread and possibly other cookery products in which a dark color is not objectionable. The syrup—the method of making which is about to be The syrup—the described—is of a thick consistency very dark, and contains from 50 to 60 per cent, of sugar. It is intensely sweet but unfortunately leaves in the mouth a very distinct and unpleasant aftertaste which is due, no doubt, chiefly to the mineral salts extracted from the beet in the process of making the sarup. This disagreeable after-taste precludes, in our opinion, the possibility of using the syrup directly on articles of food However, a number of trials with it as a sweetener in cooking has demonstrated that is can be satisfactorily employed in baking operations, as already stated, the product being free from any appreciable unpleasantness. The process, which is exceedingly simple, is as follows:

1. The beets should be thoroughly washed, and the crowns cut off at the lowest leaf scar and rejected. The remainder of the beet is then sliced as thinly as possible, put into a tub, crock or other suitable receptacle and covered with BOILING water at the rate of 1½ gallons per 10 pounds sliced beets. The whole should be kept hot for an hour or so, with constant stirring, and then strained through two thicknesses of cotton. The juice so obtained is brown or brownish black in color and was found to contain 5.75 per cent. to 6.75 per cent. sugar.

2. The juice, obtained as already described, is boiled down to a volume of approximately one tenth of that originally

## Hard, Dry Soil Can't "Stick" You

This New PETER HAMILTON Stiff Tooth Cultivator works in any kind of soil, no matter how hard or dry. For weed killing and growing big crops, you need the help of a

# New PETER HAMILTON Stiff Tooth Cultivator

Surpasses all other implements for Summer-fallow work. Built with extraordinary strength all through, to stand the heaviest work of deep cultivation. Has many special features of improvement, including new relief spring.

Write to-day for illustrated circular.

The Peter Hamilton Co., Limited,
PETERBOROUGH,
ONT.

Agents
wanted in
open territory



81 HALLAM BUILDING. TORONTO.

present, care being taken that the syrup as it thickens does not scorch or burn. During the boiling the scum which constantly rises should be removed.

To preserve the syrup for future use it should be bottled while still hot in self-sealers and the covers at once tightly screwed down.— Experimental Farms

#### Gossip.

Thirty-one Pound Breeding in the Belleville Sale.

It is not too often that any consignment sale-ring in Canada, or any other country in fact, can offer cows with records up to 31.94 lbs. of butter and 625 lbs. of milk in 7 days. Cows of this calibre are not too plentiful in most districts and when they are found it is isually pretty hard to induce the owners to put them into a sale without any protection whatever. The Belleville protection whatever. Club, however, have in some way or other, always been fortunate in inducing some member of their Club to consign one or more of this kind in order to give the other contributors a standard at which they could aim. This year it has fallen to the lot of Carman Baker of Brighton, to set "the standard" and for this he has chosen from the best of his herd and has catalogued his great producing cow, Daisy Gerben Verbelle, whose splendid seven-day record for both milk and butter production is mentioned above. In writing "Farmer's Advocate" under date of March 1st, Mr. Baker says: "When we stopped testing her she was striking a 35-lb. gait but as I could not get cotton seed, oil cake or glutten I had to let her drop. He also adds that she was still milking 90 lbs. per day then. That she would be one of the tops of any sale goes almost without saying and to make the sale still more attractive her bull calf, sired by a 34-lb-bred grandson of King Segis Pontiac Alcartra, (the \$50,000 sire) also goes through the sale-ring. Two other heifers make up Mr. Baker's entire consignment. These heifers are sisters, both being sized by Postice May Distortion both being sired by Pontiac May Pietertje, son of the noted Pontiac Hermes and May Echo Pietertje, a daughter of the great May Echo, the 31.34-lb. dam of the world's greatest milk producer, May Echo Sylvia. If you have not received a catalogue write at once to F. R. Mallory, Frankford, Ont., and note therein further particulars regarding Mr. Baker's offering.

BUBA

MARCH 28,

First of all of at leamoney, c and sheat (A good at this. We'll addresses it write them)

Bishopric warmer ar can possii boards. I asphalt n kiln-dried face absowind and vermin.

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Bishopric the ideal House as costs less, is so much Write for o detail, with Bishopric F

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#### Female Labor on the Farm EDITOR "THE FARMER'S ADVOCATE":

It sames the labor throubles on the

farm is not confoined to us men and our

Last wake the "Home Makers' Club" met wid Nora, me woife. Bein' as I had a bit of a cowld I was in the house all day, and, belave me, yer honor, there was somethin' doin' ivery minute and a few words in betwane.

Says Mrs. Finnegan: "Sure and it's the awful toime I be havin'. Here I am wid a man and siven childer and two hoired men, and I can't get a girl atal. I've had foive in the last yare. The first was no good. The second didn't loike the childer, the third didn't loike me man, the fourth didn't loike work, and the last married the hoired man.

"Yis," says Mrs. Doherty, "it's the same wid me. Faith, and the only plan I can think of is to move to Alberta among the Mormons and Tom get another woife. Sure and it's aisier for a good-lookin' man to get an extra woife nor it is to get a girl to work."

Says Mrs. McDuff: "Yer roight,

ladies, the min's problim aint half as bad as ours. Sure, a man does all he can and his woife does the rist. We have only

two chances for a rist."

"And where's that?" says Nora.

"Battleford and the cemetery," says Mrs. McDuff.

Up spakes Mrs. Magee: "We're all agreed as how we can't get no help on the farms. We be always blamin' the girls because they won't work on the farm. Faith, ladies, and it stroikes me as maybe the throuble is wid the farm and not wid the girls atal. Here's a noice girl I know in Regina. She's a stenographer. She works hard for \$45 a month, and she pays \$30 a month for board and \$5 for washin' and car tickets. She's workin' for \$10 a month, ye see, whin Mrs. Finnegan would pay her \$30."

"Hould on," says Mrs. Rafferty. "Sure and me girl is goin' to school in Regina, and it costs her \$40 a month to live,

sayin' nothin' about clothes."

Says Mrs. Finnegan: "What we want to know is how to get female hilp on our farms. Say, Mrs. Black, sure ye always have a good girl. How do ye kape her? It bates me completely how yer girls

always stays wid ye till they gits married. Says Mrs. Black: "Me and me man jist trates her exactly the way we think we'd loike to be trated if we was in her place, and it works foine. Whin I was lavin home to-day me girl says: 'Now, Mrs. Black, if Mrs. Murphy axes ye to stay for supper, jist ye stop as long as ye loike. I'll look afther the house and fade the min and the hins.

Jist thin Kathlane come in wid some tay and chicken sandwiches-Nora is consarvin' the ham.

Says Mrs. Thompson: "Say, Kathlane, whin ye was goin' to Collagiate in Regina ye must have mit lots of girls. Can ye tell us why they won't work in the counthry? Sure and a girl on a farm can save more money nor a \$75-a-month-girl can in the city

Says Kathlane: "Yis, Mrs. Thompson, I'll be tellin' ye. I've talked wid dozens of girls and I'll put ye woise. Take it from me if ye want girls on the farm ye must be afther makin' the farm more attractive nor it is now. Wan thing is the lack of convaniences. The danged men will have iverything they want, from an autymobile to a harrow cart, as their fathers niver dreamed of, and the women is still carryin' water and churnin' and washin' jist loike the women as come over on the Mayflower. Thin, again, the girls wants some company. On most farms her only chance is to flirt wid the hired man, and whin he is a German or an Austrian that chance is gone. Sure and yez women has bin talkin' for a long toime about 'community centres.' Why don't yez git busy and conscript foive acres more for yer school ground and have a noice garden and park and baseball and tennis and the loikes. Faith, and yer as bad as the min. Why don't ye do somethin'? Give the girls some society and use thim roight and ye can git thim. And there's wan more thing and that's the biggest trouble of all.'

"And what's that?" says some wan.
"The long hours," says Kathlane.

"The saints presarve us! Would ye hear the girl?" says Mrs. Flynn, "Sure me grandmother and me mother and meself all got up at four in the marnin' and worked till half-past noine at noight



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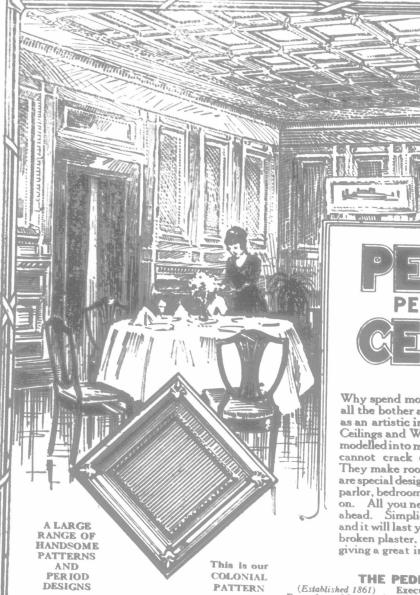
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in the summer. Faith, and ye can't

farm widout it."

"All roight," says Kathlane. "Farm yer own way, but don't be moanin' because ye can't get a girl to help ye. If yez wants plinty of help on the farm give yer girl a comfortable place to slape—not a clothes' closet loike Mrs. Finnegan gives her's, Have her git up fresh and happy at six o'clock and lit her be all done wid her bist dhress on and her nose powdered at seven in the avenin', wid two hours off in

the afthernoon,"

"Bedad and yer crazy," vells all the women. "Ye can niver do that,"

"The girls" says "Well, do widout the girls," says

Says Mrs. Currie: "Ladies, the girl is roight. God niver intinded farmers to work eighteen hours a day and other paple ten hours. If we can't make a livin' by workin' dacint hours there's somethin' wrong. Us grain growers has busted the elevator combine and us and -has cut the proices of goods a lot. We must kape on doin' as Langley and the FARMER'S ADVOCATE says—'Eliminate the middle man,' and kape on eliminatin' non-producer and millionaires til lwe can kape good hours loike our city paple as is livin off our labor, as most of them is

By this toime the tay was all gone and the ladies wint home and me kead soon

PAT MURPHY.

#### Gossip.

Ridgedale Heifer Breaks Canadian Record.

One of the most sensational seven-day butter records made in years has just been completed by the senior two-yearbeen completed by the senior two-year-old heifer, Lakeview Dutchland Wayne Rose, owned by Dr. F. A. Heslop of Ridgedale Stock Farm, R. R. No. 1, Freeman, Ont. The official figures for her best 7 days give her 31.71 lbs. of butter and 510.6 lbs. of milk, making her average test 4.97%. She was bred at Lakeview Farm, Bronte, Ont., and displaces Alta Posch, the former Canadian champion senior two-year-old by 4.65 champion senior two-year-old by 4.65 lbs., a record which has stood for almost seven years. We understand she is also an excellent individual and was among the Doctor's first purchase in Holsteins last fall, and this, of course, is his first experience in testing. It must be remembered, however, that her splendid record did not happen just by accident as she is sired by Dutchland Colantha Sir Mona, one of Canada's greatest producing sires which also sired Lakeview Dutchland Artis, Canadian champion senior 3-year-old butter cow, which made 34.66 lbs. of butter from 567.9 lbs. of milk in 7 days, with an average test of 4.88%, and Lakeview Dutchland Hengerveld 2nd, junior champion bull at Toronto in 1915 and grand champion bull at both Toronto and London in 1916 and 1917.

#### The Maple Lane Dispersal.

The sale of the Maple Lane herd of pure-bred Holsteins advertised for Tuesday, April 2nd, will bring into the salering one of the smaller but select herds of Eastern Ontario, and offers to Ontario breeders 14 choice females, royally bred, at their own price. The fact that Mr. Washington has done practically no testing, will no doubt have a tendency to make them go below their value but usually it is at a sale of this sort when the biggest bargains of the year are picked The foundation females were all selected from herds where testing was followed, and consequently these all have creditable records and a few words here regarding the herd bull, which has been in service for the past four years, will be sufficient testimony in behalf of the breeding of all the younger things in the herd. This sire is King Segis Count De Kol, which is also selling on April 2, and he is, on the sire's side, a grandson of King Hengerveld and Blanche Lyons De Kol, the latter being a 33.31 lb. daughter of Pietertje Hengerveld Count De Kol, with over 100 A. R. O. daughters. On the days of the day the dam's side he also shows up equally well, being out of a \$1,000 A.R.O. daughter of the great King Segis. The sale will be held in the afternoon and all C. N. R. trains will be met at Solina Station on day of sale. The terms will be cash, or 7 months credit will be given on bankable paper, bearing interest at 7 per cent. per annum. There will be no reserve as the farm is sold and possession promised by April 15. Address all correspondence to N. S. Washington, Hampton P.O., Ont.

MARCH 28, 1

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#### Sterilization of Tobacco Seed.

In order to obtain strong healthy plants it is very essential to sterilize the tobacco seed beds before sowing. A large percentage of losses in the field from root-rot and Mosaic diseases originate in the seed beds and can be checked by a thorough sterilization.

The transplanting of diseased seedlings not only means heavy losses from a reduced yield and very inferior crop. but the soil also becomes infected with the disease which renders the growing of tobacco on it in the future a hazardous undertaking. Aside from freeing the beds of disease, weed seeds are also killed by an effective steam sterilization. This alone will pay for the sterilization This alone will pay for the sterilization of the beds by the saving of labor required to weed the beds. The inverted pan method is the most practical and economical to use in the steam sterilization of beds. A good traction engine can be obtained in most any locality where tobacco is grown. The steaming pan or box, which should be from 10 to 12 feet long and 6 feet wide can be made from long and 6 feet wide can be made from galvanized sheet iron or tongued and groved boards 1½ inches thick. The galvanized pan where properly made and reinforced will last longer but will cost more than one made of wood on account of the rather high cost of such material at the present time. In either case the pan should be made very tight in order that no steam will escape from the pan during the steaming operations. There should be a 14-inch opening in one end of the pan equipped with a galvanized pipe and coupling on which to attach the steaming hose or pipe with the engine. A diffuser should be attached to this opening inside the pan in order to distribute the steam more uniformly to all parts of the pan. Handles should be on the sides of the pan to facilitate moving the pan along the bed. Several farmers in a locality should co-operate in the purchase of the

The bed should be thoroughly prepared or seeding before steaming. The pan for seeding before steaming. should be placed on the bed and the edges firmly pressed into the soil before the steam is turned on from the engine. Best results have been obtained by allowing steam to run into the pan for 30 minutes at a pressure of 100 lbs. on the engine. The steam can then be turned off and the pan removed to another section of the bed. In order to not reinfect the bed one should avoid walking on it after sterilization. The use of two pans will greatly facilitate the work. The frames should be placed around the beds immediately after sterilization. The beds can be sown 1 to 3 days after sterilization.

The surface of steamed soils is inclined to dry out more rapidly than unsteamed soils and will require watering more often until the plants are large enough to cover the ground.

Don't use too much water at first as this will have a tendency to drift the seed and small seedlings, giving the bed an uneven appearance.
G. C. ROUTT,

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#### Questions and Answers. Veterinary.

Apoplexy.

Pig eight months old, while eating began to stagger, held head to one side, fell down, squealed and appeared to suffer pain. Later on it was lying down with all feet working as if it were running. It lay and acted in this way for 36 hours. I then killed it and a post mortem revealed the kidneys very large, the bladder very full and the heart was also very large

Ans.-This was a case of apoplexy. It is usually caused by high feeding and

want of exercise. Treatment.—Bleeding is recommended Tie a string tightly above the knee, the vein on the inside of the leg will fill up; then with a sharp knife make an opening into it. For a pig of this age a small tea cup of blood would be enough to extract; then remove the string and pin up the opening in the usual manner, by pressing a small pin through the lips of the wound and tying a thread around the pin. Leave the pin in for two days.

Another treatment is to purge with 1 oz. Epsom salts, feed lightly for a few days and see that the patient takes exercise as soon as he can move.

Prevention consists in allowing exercise

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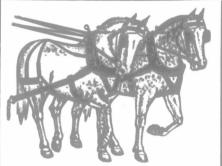
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### **Lakeview Farm Shorthorns**

A few females for sale sired by a son of Clansman, 87809. Apply to:
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#### **Questions and Answers.** Miscellaneous.

Automobile Lens.

Was the law passed compelling owners of automobiles to change the lens so that the light would not shine over a certain distance above the ground and not be dazzly? Will a man be liable if he drives his car without having the lenses changed?

Ans.-We understand that an Act was passed compelling the change of lens so as to avoid the strong light. A man is liable if he does not comply with the rules in the Act.

Fall Pasture.

I have a field seeded to grass that is very bad with thistles. We intend to plow the field in June. What crop would you advise sowing for fall pasture for cattle, horses and sheep? We thought of sowing rape. Would there be danger of the cattle bloating if they were not Would thousand-headed used to it? kale be satisfactory? What quantity do you sow per acre?

Ans.—Rape would make as satisfactory fall pasture as anything you could sow. It can be sown early in July and will give an abundance of feed in September. It is not particularly good feed for horses, but is excellent for cattle, sheep and swine. Care should be taken when turning the stock on to rape, but once they are used to it there is little danger of bloating. It is well to have another field near by for them to run on, and salt should be available. Kale gives very good yields. If rape is sown in rows, 2½ to 3 lbs. per acre will be sufficient; if sown broadcast, more than double that quantity would be required.

#### Rack Lifter.

My father wishes to install a racklifter in our barn. The width between the beams on which it is to be built is about 16 feet. The lifter is to be stationary. We use a 16-foot rack. Kindly give some information regarding the installing of same. What safety devices are neces-LHS

Ans.-If installing a rack-lifter yourself, we would advise you to visit some farm where the rack-lifter is used so as to get some idea of the way it is put up. It is necessary to have a windlass for each end of the wagon, resting on a timber well up in the barn. This may be on a beam, if high enough, and the same fixed so that the windlass will run fairly smoothly. As a rule large wooden wheels with solid dogs are used to run the rope on to turn the windlass. It is essential that these dogs be solid and that the catch drops into place very readily so as to hold the load when it is drawn to the proper height. or to hold it should a rope break. It is necessary to have strong ropes as there s a heavy strain in raising the entire load. The two windlasses would rest directly over the ends of the wagon and the ropes to raise the wagon would be ch end of the sill by means of a hook and link.

#### Splicing a Rope.

How can a rope be spliced so that it

will run through the pulleys?

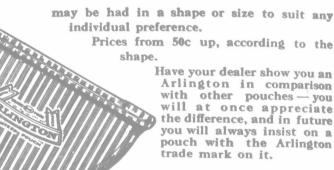
2. How long after a cow freshens should it be until she is milked? Some people advise twelve hours. W. T. V. Ans.—1. There are different ways of splicing a rope, and if care is taken there should be little difficulty in doing the work so that the splice will run through the pulleys quite smoothly. One method s to unwind each strand for a distance of about 3 feet, fit each end of the rope together, and then work one strand over the other. In order to avoid a largeness at the sclice, each strand may be made a little smaller by cutting out a few of the fibres. Another method is to unwind about the same distance, take two strands and tie them so that the unwound part of both ropes meet, then unwind one strand and wind the other into its place for a distance of  $1^{1}_{2}$  or 2 feet, and then work the end in as above mentioned. This is done with each strand. In this way the strand of one end takes the place of a strand in one other, and vice versa. This makes a very neat splice and

2. A cow that is a heavy milker should to the milked out dry for a day or day and a half. It is best to follow nature a closely as possible. A little may be stripped out of the udder frequently, but to entirely empty the udder might same milk fever to develop.



The trade mark of pouch quality is the Arlington. This mark stamped on a rubber pouch signifies that it is made of the best and strongest rubber obtainable—that it is guaranteed against imperfections for two years, and that your tobacco will be kept fresh and moist. The

lobacco Ponci



may be had in a shape or size to suit any individual preference. Prices from 50c up, according to the

> Have your dealer show you an Arlington in comparison with other pouches—you will at once appreciate the difference, and in future

> > At any good dealer.

IMMENSE WEALTH IN WESTERN **CANADA** 

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information based on Government Reports

ENTERPRISE and ENERGY—One Alberta town reports at least 100,000 acres of new land in that vicinity plowed last fall for crop this year; has six elevators now and three new ones and a flour mill under way. The reason—1917 values for wheat, oats, barley and flax seed alone for the prairie provinces is \$613,885,700.00. Start now, share it this year.

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Low Fares Comfortable Trains Interesting Features By Canadian Northern, the logical route from East ern to Western Canada. Through tickets every-where, Get copy of the "Guide" to-day; any agent, or write General Passenger Dept., Montreal, Que.; Toronto, Ont., or Winnipeg, Man.

## Imp. and Canadian Bred Clydesdales

COLUMBUS STABLES

We have on hand at present one of the strongest selections of imported and Canadian bred stallions we have had in the stables in years. A strong combination of size, quality and breeding.

We also have 15 in-foal mares, all to SMITH & RICHARDSON

Myrtle, C. P. R. Oshawa, C. N. R. Oshawa, G. T. R.

Clydesdales and Shorthorns I still have some Shorthorn bulls, twelve and thirteen months old. Two grandsons of Royal Blood; these are an exceptionally fine lot; also a number of females. In-

J. B. CALDER, Glanford Station, R.R. 3.

# Aberdeen-Angus

t of last spring's ball calves to offer, sired by our noted herd bulls and ead imported cows. Inspection invited. Berkshire Boars and Sows LARKIN FARMS (MENTION FARMER'S ADVOCATE) QUEENSTON, ONTARIO

#### KNIGHTON LODGE STOCK FARM

one Aber-le us Angus bull, 15 months old, in the pink of condition, and a show animal, considered.

C. C. KETTLE, Wilsonville, Ont.

# SHORTHORNS-T.L. Mercer, Markdale, Ont-ROSEWOOD CHAMPION, by Nonparell Archer, Imp., at the head of the herd. I have almost 100 Shorthorns in the stables at passent. Marr Missies, Campbell-bred Clarets, Nonpareils, Minas, Rosemarys, etc., at the best of breeding and the best of cattle; bulls or females; also have a few Herefords.

MARCH 28, 19

This is t cattle we breed are

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Selling

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War Time EDITOR "THE FAR!

Operating under Seed Commission members of his sta Commission aims supply of staple fa tion where needed. Commission are 1 Toronto and Que Branch staff of se chain of Governi the control of the missioners of the and Commerce, courchasing Comm cleaning, storing, sa of seed supplies. assists in purchas small brokerage cor

The purchases o financed by appr Orders-in-Council, sales are deposited Receiver General. sales only in car lot of seed and subject draft with bill of la are fixed to cover the cleaned seed determined.

All of the cereal seed are obtained as to definite standa grades. Small prenoffered in car lots seed with a limited Relatively pure va in the quantities re items; hence the op mission do not inter business of seedsme named warieties...

The seed surplus of province are estimate district officers in c Provincial Departm where supplies are bodies frequently pl. in the distribution. handled by the Condistributed through of commerce for seed governing bodies, a farmers' chiles or gr

Do Not Forget the Dates! OF THE GREAT WESTERN ONTARIO

# SHORTHORN SALE

TWO DAYS OF UNEQUALLED SELLING

# London, Ont., Tuesday and Wednesday April 2 and 3

100 FEMALES — 50 BULLS

This is the best lot of pure Scotch and Scotch-topped Shorthorn cattle we have ever offered. The most popular families of the breed are represented. Solid foundations for strong herds may be selected at this sale. Show material of the highest order is included. The females are all of the type and breeding that go to make up the best herds of Western Ontario, and in the males

are included more real choice herd bull prospects than have been sold in a single sale in Ontario in recent years. Good sires are scarce — we have fifty from which to select; they range from ten to fifteen months of age and are ready for service. Nearly all the females are of breeding age and well on in calf or have calves at foot, and all are guaranteed breeders.

Selling at the Fraser House Stables on April 2, and at the Brunswick Hotel Stables, April 3.

Come Prepared to Stay for Both Days. A Dinner to the Live Stock Men will be given on the evening of April 2.

The Western Ontario Consignment Sale Company. FOR CATALOGUES HARRY SMITH, Hay, Ont.

#### War Time Seed Supply.

EDITOR "THE FARMER'S ADVOCATE"

Operating under the direction of the Seed Commissioner and composed of members of his staff, the Seed Purchasing Commission aims to insure a reserve supply of staple farm seeds for distribu-tion where needed. Outside offices of the Commission are maintained at Regina, Toronto and Quebec City. The Seed Branch staff of seed inspectors and the chain of Government elevators, under the control of the Board of Grain Commissioners of the Department of Trade and Commerce, co-operate with the Seed archasing Commission in the inspection cleaning, storing, sacking and distribution of seed supplies. The grain trade also assists in purchasing on the basis of small brokerage commissions.

The purchases of the Commission are financed by appropriations made by Orders-in-Council, and proceeds from sales are deposited to the credit of the Receiver General. The Commission makes sales only in car lots of one or more kinds of seed and subject to payment by sight draft with bill of lading attached. Prices are fixed to cover the actual cost of the cleaned seed as nearly as can be

0

All of the cereal grains purchased for seed are obtained subject to inspection as to definite standards of quality for seed grades. Small premiums per bushel are offered in car lots which will grade for seed with a limited dockage in cleaning. Relatively pure varieties are available in the quantities required only in a few items; hence the operations of the Commission do not interfere unduly with the business of seedsmen who always handle named varieties...

The seed surplus or requirements of each province are estimated by the Seed Branch district officers in consultation with the Provincial Departments of Agriculture, where supplies are needed the latter bodies frequently place orders and assist in the distribution. Much of the seed handled by the Commission is, however, distributed through the usual channels of commerce for seed supplies. Municipal governing bodies, agricultural societies, farmers' clubs or groups of farmers take

Red Buff and Fire-flashed Colors

WRITE FOR FREE SAMPLES TO-DAY INTERPROVINCIAL BRICK CO. OF CANADA, Limited Office: 154 SIMCOE ST., TORONTO Plant: CHELTENHAM, ONT.

#### CREEKSIDE SCOTCH SHORTHORNS

Herd headed by Gay Monarch 79611; dam, Sally 8th imp., and sire, the great Gold Sultan 75411. My present offering of young bulls includes several 7 to 14 months' youngsters, all thick, mellow, well-grown fellows—reds and roans—and priced right. Can also supply females in most any numbers, Geo. Ferguson—Elora Station, C.P.R., G.T.R.—Salem, Ont.

#### WILLOW BANK STOCK FARM

SHORTHORN CATTLE AND LEICESTER SHEEP. HERD ESTABLISHED 1855—FLOCK, 1848. The great show and breeding bull, Browndale =80112=, by Avondale, heads the herd. Extra choice bulls and heifers to offer. Also'a particularly good lot of Leicester rams, mostly from Imp. ewes JAMES DOUGLAS CALEDONIA, ONTARIO

### IMPORTED SHORTHORN BULLS

We have several newly-imported bulls of serviceable age — Cruickshank, Marr and Duthie breeding, as well as a number of choice, home-bred young steers, got by our noted herd sire, Proud Monarch, by Royal Blood. Get our prices before buying elsewhere. RICHARDSON BROS., Columbus, Ont.

#### PURE SCOTCH SHORTHORN BULLS

Our present offering of young bulls, sired by our herd sire Broadhooks Star, a son of the great Newton Ringleader, Imp., are the best lot of bulls we ever had on the farm. Come and see them, or write for particulars. We also have females of the richest breeding and highest individuality.

GORDON SMITH, Woodslee Sta., M.C.R., Essex County, SOUTH WOODSLEE, ONT.

#### **GLENGOW SHORTHORNS**

We have a choice offering in young bulls, fit for service. They are all of pure Scotch breeding and are thick, mellow fellows, bred in the purple.

WM. SMITH, COLUMBUS, ONTARIO. Myrtle, C.P.R., Brooklin, G.T.R., Oshawa, C.N.R.

SEVENTY-THREE HEAD OF SHORTHORNS SEVENTY-THREE HEAD OF SHORTHORNS

Four good young bulls of serviceable age; Nonpariel Ramsden =101081= and Royal Red Blood = 77521=, at the head of the herd. These young bulls range in age from 8 to 15 months, and are for immediate sale. They are out of good dams, which will bear inspection. Our cows and heifers will immediate sale. They are out of good dams, which will bear inspection. Our cows and heifers will immediate sale. They are out of good dams, which will bear inspection. Our cows and heifers will please, and you'll like the bulls. Also three extra-good grade heifers, from heavy milk-producing dams, please, and you'll like the bulls. Also three extra-good grade heifers, from heavy milk-producing dams.

## SHORTHORN BULLS Will. A. Dryden

of my own breeding, around a year old; best families and of my own breeding, around a few young, imported bulls.

Brooklin, Untario County Mrytle, CP.R. Brooklin, G.T.R. Brooklin, C.N.R. good colors, are for sale. Also a few young, imported bulls.

advantage of ordering in car lots and thus serve as a control on prices asked by the trade

SEED COMMISSIONER.

#### Gossip.

Brantford Dual-Purpose Shorthorns.

The Lynnore Stock Farm, situated near the city of Brantford, Ont., and the property of Frank Cockshutt, is perhaps one of the most noted stock breeding establishments in the Dominion. Not that it compares, even favorably in size with many of the larger farms in the country, but the specialty here, for the past few years has been imported dual-purpose Shorthorns of the better sort, and as the selections with only few exceptions have always been made by Mr. Cockshutt personally, the Lynnore herd has gained in prominence very fast. A trip of inspection to the farm at any time, will, however, furnish a full explanation as to the cause of this success. The excellent type of imported breeding females seen in the stables will please all lovers and admirers of the breed and the present offering of young bulls from these lams and sired by the former herd sire, Lynnore Duke (imp.), are well worthy of inquiry and every consideration on the part of those who are now in need of a high class sire. They have seven, eight, ten and eleven-thousand-pound backing and sires such as Conjuror, Dauntless, Director, and others equally as famous, at the tops, in all their pedigrees. The newly imported herd sire, Thanet Marquis, a choice well-made two-year-old, is at present doing exceptionally well and will be used exclusively on all of the mature cows in the herd. He is got by Kingsthorpe Marquis by Barrington Star, and his grandam, Lady Maud, has a 10,000lb. milk record for the year. Lord Crawford, the junior sire, is also a promising youngster both individually and in breeding. Being got by the now noted Alberta sire, Director, and out of the 10,000-lb. cow, Rosebud 12th, he should be one of the strongest bred milking bulls the breed has produced.



#### FOR HARD ROUGH WORK THEY STAND PRE-EMINENT

There is no load too heavy or strain too great for these all-steel hames. Two-piece, doubly reinforced at points of greatest strain.

15% Stronger Than Any Other Hame Draft studs, forged steel; Rings electri-cally welded—will not break; will not buckle or bend, anti-rust treated.

Write for Our Descriptive Folder
We can furnish low tops and high Tops;
light hames and heavy hames in all
kinds of finishes and designs for every
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our dealer proposition and selling helps. McKINNON DASH COMPANY Dept. o. St. Catharines, Ontario, Canada

## Flintstone Farm

Breeders of -Milking Shorthorn Cattle Belgian Draft Horses Berkshire Swine Rhode Island Red Pouitry Our winnings at the Eastern States Exposition speak for the type of our animals— Our official production Records are equally superior -The great size of our herds

offers unusual opportunities for We would like to send you our catalogues and production records —

Dalton Massachusetts

## Dual-Purpose Shorthorns

Herd headed by Dominator No. 106224 whose grandam on his mother's side has an R. O. P. record of 13,535 lbs. milk, testing 3.99, and whose dam has an R.O.P. record of 10,689 lbs. milk, testing 3.88. Cows, heifers and young bulls for sale; some of the latter are out of cows in the herd which have given between 10,000 and 11,000 lbs. of milk each in one lactation period.

WELDWOOD FARM FARMER'S ADVOCATE, LONDON, ONTARIO

FOR SALE

## Two Dual-Purpose **Shorthorn Bulls**

One two-year-old. Dam, officially tested gave as a four-year-old, 11,498 lbs. milk and 434 lbs. butter fat. One year-old, whose dam as a three-year-old also officially tested, gave 8,057 lbs. milk and 340 lbs. butter fat in 296 days.

D. Z. GIBSON Caledonia, Ont.

#### Mardella Shorthorns

Dual-purpose bulls, 20 young cows and heifers—bred, some calves by side. Size, type, quality; some full of Scotch. The great massive Duke—dam gave 13,599 lbs. milk, 474 lbs. butter-fat—at the head.

Thomas Graham, Port Perry, R. 3, Ont.

Glenfoyle Dual - Purpose Shorthorns Herd bull College Duke 4th, 95430, big, thick young cows and heifers for sale; 8 young bulls, some herd headers. Also a yearling Clyde, stallion STEWART M. GRAHAM, LINDSAY, ONT.

Evergreen Hill R. O. P. Shorthorns Offering sons of St. Clare 84598 R.O.P. No. 5, who sired the 1917 champion fat steer at Toronto Exhibition. Also offering Berkshires 2 months old. S W. Jackson, R.R. No. 4, Woodstock, Ont.

#### Gossip.

Richardson Shorthorns at Columbus.

There is no better evidence of the worth of an aged bull than that which can be seen in the get of the good old sire, Proud Monarch, in the herd of Richardson Bros. of Columbus, Ont. Proud Monarch is a Brawith Bud-bred bull by Blood Royal (imp.), and came to the Richardson herd only three years ago, but one needs only to glance over the score or more young things now in the stables by this noted bull to know that he is easily one of the country's best breeding sires. The 1916, 1917 and 1918 calves are all by him and among the 1917 calves are a half dezen choice young bulls, almost any one of which will make a sire worthy of a place in any herd. Next in service and the sire to which the daughters of the senior sire are being bred is the young imported bull, Ardlethen Clarence, a Marr-Clara two-year-old that should have exceptional promise when crossed with Messrs. Richardson's excellent heifers. In summing up the breeding herd it is also pleasing to note the splendid pedigrees attached to each of the good breeding matrons throughout the herd. There are three Duchess of Glosters all of the true thick stamp, and each with a bull calf at foot by the senior sire. The Wedding Gifts are also three in number to which are added a couple of extra good beifers freshening this spring with their first calves. The Rosemarys and Crimson Flowers are each represented by two, the Marr Missies by three, the Rosebuds by one, and the Louisas by two, making in all a herd of 65 head from which there are offered at present as nice a lot of young two and three year heifers as we have seen priced for sale for some time, to say nothing of the bulls mentioned.

#### Questions and Answers. Miscellaneous.

Self Feeder for Hogs.

Can you give me the plan of a self-feeder for hogs? What feed do you recommend for pigs of 100 lbs. to be put on pasture? Do you recommend

Ans.-The plan and description of a self-feeder for hogs was published in the January 17 issue of the Farmer's Advocate. Oats and barley make very good hog feed. Shorts may be used to advantage. We would advise feeding roots to growing hogs. Tankage has been found to give good results, especially where skim milk is not available.

#### Farming on Shares.

What is the customary way to work a farm on shares, the owner having the plowing all done and furnishing the seed?

2. How should alsike clover be taken off on shares?

3. What will clean black silk poplin?

Ans.-1. There are a number of ways of renting a farm on shares, depending on the nature of farming, the quality of the nature of farming, the quanty of the soil, and the amount of material furnished by the owner. In working farms on shares, the apportionment of expenses borne and proceeds received by the tenant commonly runs from one-third to forty per cent.; thirty-five per cent. being a fair average. This would be where the owner would furnish the land, buildings, live stock and implements. He would receive sixty-five per cent, of the proceeds and pay sixty-five the tenant furnishes implements, livestock, and does all the work, except furnishing the seed, the apportionment would be on more of an equal basis.

2. In harvesting the clover on shares. it is advisable to work on a cash basis for labor, etc. The amount which each should receive will depend on the stand of clover or the yield of seed, consequently it is very difficult to give a division that would be equitable under all conditions. 3. If the silk is only slightly soiled,

soup bark may be used satisfactorily The directions for using same are usually on the package. If badly soiled, gasoline should be used, but if so, care would have to be taken to keep it away from fire.

# The Feed for Hungry Calves

Conserve the milk and help the nation. You do not need to feed milk to vour calves if you use Royal Purple Calf Meal. It is a perfect substitute for milk. It is partially cooked, and the pure ingredients are so combined that the meal will not injure or derange the digestive organs of even the youngest calf. If you want rapid development and healthy calves, feed

Send for our 80-page book which tells how to raise calves without milk.

It also describes fully the common diseases of stock and poultry.



## Royal Purple

Let the following unsolicited testimonial letters convince you of the sterling qualities of our calf meal.

John D. Hamilton, Port Hope, Ont., writes:
"I have used Royal Purple Calf Meal and find it perfectly satisfactory, and I am recommending to my friends. I might add that I find no trouble with the calves scouring while using this meal. I have tried many other Calf meals, but never found one that proved satisfactory until I got Royal Purple."

until I got Royal Purple."

S. M. Osborne, Maxwell, Ont., writes:
"We have a pretty good calf which is now four months old and weighs 400 lbs. I think your calf meal is fine. I have never fed anything that will make a calf grow as fast as this meal."

Order Royal Purple from your feedman. It is sold in 25, 50 and 100-lb. bags.

W. A. Jenkins Mfg. Co., Limited London, Canada

# Springhurst Scotch

Four Bull Calves Fit for Service, a choice lot of thick, well-grown fellows, just the right age for heavy service. One is by our present sire, Volunter, another is by the great sire Blarney Stone, while a third is by the Roan Lady bull, Refiner. If looking for

Harry Smith, (Exeter Station, Huron Co.,) Hay P.O., Ontario

SALEM SHORTHORNS

Herd headed by Gainford Marquis (Imp.), undefeated in England and Canada. Sire of the winning group at Canadian National, 1914, 1915, 1916. Can supply cattle, both sexes, at all times.

J. A. WATT, ELORA, ONTARIO

Robert Miller, Stouffville, Ont.

still has a few Shorthorn bulls, fit for service, and some females that are as good as can be found for the man that wants to start right in Scotch Shorthorns. They will be sold for a low price, considering the quality, and the freight will be paid. Write for anything in Shorthorns One hour from Toronto

Imported SCOTCH SHORTHORNS Our present offering includes 100 imported females and 12 young imported bulls, representing the most desirable lines of breeding. If interested come and see them. Burlington Jct., G.T.R. is only half mile from farm. J. A. & H. M. PETTIT, FREEMAN, ONTARIO.

## OAKLAND 60 SHORTHORNS

Present offering is 7 bulls from 10 to 20 months of age; also a few cows with calves at foot, all choicely bred dual-purpose animals, and priced below their value. Crown Jewel 42nd still heads this herd.

JOHN ELDER & SONS, HENSALL, ONTARIO.

Blairgowrie Shorthorns and Shropshires 20 imported cattle, cows and heifers; all have calves at foot or are in calf to British service. Bulls for breeders wanting herd headers. Also home-bred bulls and females. Prices right. Rams and ewes in any numbers. JOHN MILLER, Myrtle Station, C. P. R., G. T. R. ASHBURN, ONTARIO.

SPRING VALLEY SHORTHORNS Herd of seventy head, straight Scotch, good individuals. Headed by the great show and breeding bull, Sea Gem's Pride 96365, and Nonpareil Ramsden 83422. We have for sale four as good young bulls as we ever had, and a few females. KYLE BROS., Drumbo, Ont. (Phone and telegraph via Ayr.)

## FIFTY IMPORTED SHORTHORNS

I have fifty head of newly imported Shorthorns (42 females, 8 bulls) which are acknowledged to be one of the strongest lots that have left Britain this season. You should see these if you are wanting something choice. George Isaac, (All Railroads; Bell Phone) Cobourg, Ontario.

PLEASANT VALLEY FARMS Herd headed by (Imp.) Newton Grand Champion and Belmont Beau. We have for sale a goodly number of real good young bulls that will suit the most exacting; also females. Inspection invited. Geo. Amos & Sons C. P. R., 11 miles east of Guelph Moffat, Ontario.

FAIRVIEW SHORTHORNS AND CLYDESDALES

FAIRVIEW SHORTHORNS AND CLYDESDALES

In Shorthorns we can offer you a choice, from 6) head, including both balls and females, of Lavender, Missie, Augusta, Dachess of Gloster, Village Girl, Miss Ramsden and Clara breeding—the best of cattle and the best of pedigrees. In Clydesdales, write for our list of winnings at Toronto, London and ROBERT DUFF & SONS

Myrtle Station, C.P.R., and G.T.R. MYRTLE, ONTARIO

A.G. Farrow, Oakville--SHORTHORNS

Herd headed by Proud Lancer (Imp.) and Pride of Escana, a great son of the great Right Sort Imp. I have a few bull calves of the better sort. Three imported ones left. Prices right Farm one mile from station. Trains every couple of hours each way.

SHORTHORNS CLYDESDALES

Will price 4 richly-bred Lavinit heiters, 5 to 27 menths, oldest one due to calf to Lochiel (Imp). Still have stallion rising 2 wears old, their B mean's Pride blood; size and quality combined; gelding price Wm. D. Dyer, R.R. No. 3, Oshawa, Ont. 416 miles to Brooklin, C.N.R., or Myrtle, C.P.R. 23 miles to Brooklin, G.T.R. ENGLISH DUAL-PURPOSE SHORTHORNS

My present an ring Several young hells, all from imported stock, bred for milk through many generations. Does not lighten sand fines marriation.

F. WALLACL-COCKSHUTT. LYNNORE STOCK FARM, BRANTFORD, ONTARIO

MAPLE HALL SHORTHORNS

One Crnicks tank D takes Gester Present offering, 7 yearling bulls:

All pare South in Levert good, also a few young cows with calves, and yearling heifers.

D. BIRREL & SON, CLAREMONT, ONT.

MARCH 28

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When yo izer you the goods thousand

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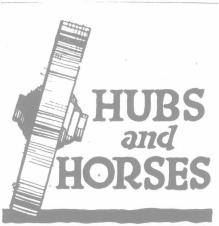
## **Fertilizer** Quality

When you buy a ton of fertilizer you are buying what's in the goods and not merely two thousand pounds of weight.

When a smelter buys a ton of gold ore he insists on knowing the ounces of gold in it. You should know the amount of active Nitrogen, Nitrate of Soda, the gold of the fertilizer.

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The world is short of horses. To get the most out of your team use

#### **MICA AXLE GREASE**

"Use half as much as any other"

The mica flakes fill the pores and crevices in the axle and the grease keeps them there. Mica Grease means fresher horses at the end of the day and longer life for your harness and wagons.

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Overcomes leather's worst enemies-water and dirt. It makes harness pliable and waterproof, prevents breaking of stitches and imparts that rich black lustre to all dark dressed leather.

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#### Cost of Increasing the Make of Maple Syrup.

EDITOR 'THE FARMER'S ADVOCAT'"

I have read with interest many writings on increased production for this coming season. The agitation for an increase of maple products particularly interests me. have received a letter urging me to tap all the available maples that I have this spring, in an effort to produce maple sugar or syrup to lessen the amount of cane sugar needed. In my case, I cannot see that it would pay. I would be losing money by increasing our present sugar-making outfit. Our present outfit consists of two iron kettles and about eighty buckets. If we were to begin sugar-making on a large scale, we would have to have a larger outfit and purchase an evaporator. We could tap about eight hundred trees. This would mean that we would need over seven hundred new sap buckets, and this would entail an outlay of around \$280. The spiles would cost another \$30, and an evaporator of sufficient size to meet our requirements would cost in the neighborhood of \$200. This would include the arch for supporting the evaporator, also the float regulator, siphons, scoop and skimmer. I would also need a supply of cans for holding the syrup. These would cost about \$20 per hundred for gallon tins. I would also require a storage tank. The above outfit would cost me over \$535, not including any cans for holding the finished product. It would also cost considerable to erect a suitable building for the evaporator, and it would take three or four men to handle the outfit and do the chores around the barn. It is almost impossible to secure three men even at \$3 per day. Unless it were an exceptionally good season, I would not make any more than interest on my investment. Of course, I would be doing work of National Service, but I would like at least a little profit. For this year I purpose making as much syrup as I can with my old outfit. Halton Co., Ont. W. J. Cox.

#### Questions and Answers. Miscellaneous.

Renting a Farm.

A rents a farm to B but has no lease or witness to the bargain, and has not done any work on the farm. C buys the farm from A and pays him for it. Will C be obliged to rent the farm to B, or may he work it himself?

Ans.—We cannot see how C is obliged to rent the farm to B under the circumstances. If B had a lease on the farm, A would have been obliged to sell subject to the lease. With some men a verbal agreement is as good as a bond, but if the agreement was considered binding A should have consulted with B before disposing of the land.

#### Fence Queries.

Can I compel my neighbor to build his line fence between us? Because he does not work his farm for about thirty rods from my fence he will neither build his half of fence nor pay for having it built. The land along the east side and about thirty rods between his working land and my fence is in commons, but is just as workable and level as what he works.

I might say I have taken the Advocate for 17 years, ever since I started farming on my own account and we value it very

Ans.—As we understand your question your neighbor can be compelled to build a lawful fence between his property and your own on that half of the line allotted to him.

Mixing Wheat — Yeast Treatment.

1. Would it be all right to sow spring wheat with fall wheat that was damaged with the frost for marketable grain?

2. Will yeast bring cows around, if so

what kind of yeast and how do you give it and how often. H. B. B.

it and how often?

Ans.—1. If your fall wheat is a late variety and your spring wheat fairly early it might work out all right to sow spring wheat in with the fall. While millers would rather buy the wheat separately no doubt in these times there

would be a good market for it mixed 2.5 No. The yeast treatment will not cause oestrum. It is only used in cases where cows fail to cenceive due to excessive acidity in the reproductive organs. An ordinary yeast cake dissolved in water is used.



DISPERSION SALE OF

# 60 Pure-Bred Holsteins

AND A NUMBER OF YOUNG CALVES

at Highwood Stock Farm, Ingersoll, Ont., at 10.30 o'clock, on

### Wednesday, April 10th, 1918

We are offering 8 choice young bulls of serviceable age. Included in this sale are sisters of two of the Canadian R.O.P. Champions, Calamity Snow Mechthilde 2nd, at three years, 23.274 lbs. milk and 1,053 lbs. butter in 1 year; and Duchess Wayne Calamity 2nd, at two years, 16,714 lbs. milk and 864 and Duchess Wayne Calamity 2nd, at two years, 16,714 lbs. milk and 864 lbs. butter in I year. We are also offering a daughter, 3 granddaughters, and a number of great-granddaughters of Fairmont Wayne, who has a record of over 20,000 lbs. milk and over 800 lbs. butter two years in succession. Thirty head in this sale are the get of King Isabella Walker (imp.), whose dam has a record of over 22,000 lbs. of milk, and 987 lbs. butter in one year, also a grandson and granddaughter of Queen Butter Baroness, 33.17. Fully 90% of the entire herd carry blood of the Canadian R. O. P. Champions.

Conveyances will meet morning trains at Ingersoll, and the C. P. R. noon train from the south at Salford.

WRITE FOR CATALOGUE. LUNCH PROVIDED

T. G. GREGG, R. R. No. 5, INGERSOLL, ONTARIO

AUCTIONEERS:-MOORE & DEAN, WM. PULLIN

## DAISY GERBEN VERBELLE

LOOK UP THIS COW IN YOUR BELLVILLE CATALOGUE

Her record is 31.94 lbs. of butter and 625 lbs. of milk in 7 days—and she's a show cow. Also note KING GERBEN ALCARTRA, a son of this great cow and show cow. Also note KING GERBEN ALCAKIKA, a son of this great cow and sired by King Alcartra Walker, which is a son of the great 34-lb. 4-year-old cow, Keyes Walker Segis. The three nearest dams of this youngster average 33 lbs. of butter in 7 days. He is a beautiful calf, and sells with two heifers (full sisters), Lily Pietertje Echo and Lily Echo Pontiac, sired by Pontiac May Pietertje.

FOR CATALOGUES, SEE THE CLUB ADVERTISEMENT.

CARMAN BAKER

BRIGHTON, ONT.

## CLOVER BAR HOLSTEINS

We are now offering a number of young bulls, sired by our senior herd header, Francy 3rd's Hartog 2nd, the noted son of the famous old Francy 3rd and Canary Mercedes Hartog; also a few females—all choice individuals.

P. SMITH, PROPRIETOR, STRATFORD, ONTARIO

## SILVER STREAM HOLSTEINS

Present Offering — six extra well bred bull calves, sired by bulls with 34-lb. backing, and from tested dams, individually as good as their breeding. For fuller particulars and prices, write, or better come and see them.

J. MOGK & SON, R. R. 1, TAVISTOCK, ONTARIO

Here's a Top-notcher!

Sire, King Segis Walker; dam, 30-lb. daughter of Pontiac Korndyke, who herself has a 30-lb. daughter. He is a youngster, but he'll grow. A. A. FAREWELL, Oshawa, Ont.

LOW BANKS HIGH-RECORDS: SONS OF "FAIRVIEW KORNDYKE BOY" who now has seven daughters out of a total of eleven, with records of from 20 to 23 lbs.—two have milked over 600 lbs. of milk in 7 days. Also some young bulls from these heifers sired by Sir Echo. Only one ready for service from 30.14 dam, with a 20-lb. two-year-old daughter.

K. M. DALGLEISH,

KENMORE, ONTARIO

WILLOWBANKS HOLSTEIN-FRIESIANS

Herd headed by King Walker Pride (C. H. B., 17362), (A. H. B., 207261) who is a son of the famous King Walker and the great show cow, Pride Hengerveld Lenonx, 30.12, who is a granddaughter of Blanche Lyons De Kol, 33.31 and King Segis, who is a grandsire of world-champion cow, also of the two highest-priced bulls of the breed. Young stock for sale.

C. V. Robbins Bell Phone Wellandport, Ontario.

#### **EVERGREEN STOCK FARM HOLSTEIN-FRIESIANS**

Our unparalled success at the Toronto and London Exhibitions during the past five years places Evergreen Holsteins in a class by themselves.

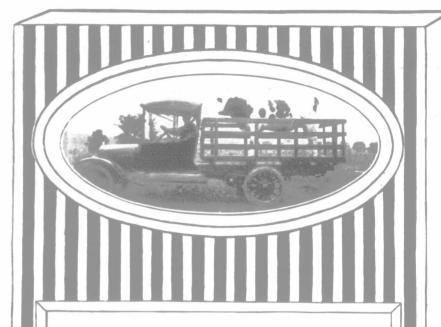
The strong combination of size and type found in our individuals makes record producers. Your next herd bull should be carefully selected. See our offering before buying elsewhere.

A. E. HULET, (Oxford County) NORWICH, ONT.

## Riverside Holsteins

We still have some good bulls on hand; uncluding two half-brothers of Toitilla of Riverside, former Canadian R.O.P. Champion. Write or phone your wants to—J. W. Richardson, Caledonia, Ont.

Pioneer Farm Holstein Herd With big yearly records and high average butter-fat test, and headed by Canary Hartog, grandson of Royalton Violet, at 10 years, 30,39 lbs. butter, 735 lbs. milk in 7 days; 29,963 lbs. milk, 1,309 lbs. butter in 1 year. Sire's dam, Royalton De Kol Fern, 34,60 lbs. butter in 7 days, 116 lbs. milk in 1 day. Bull calves for sale, born after Jan. 25th, 1917; dam over 11,000 lbs. milk up to nearly 16,000 lbs. milk in 1 year at 2 years old. Walburn Rivers, R. R. No. 5, Ingersoll, Ontario, Phone 343L, Ingersoll Independent Line



A 29-pound sire going to head the herd of W. T. Davidson & Son, Meadowvale, Ont.; 10 months old. Note the splendid development. Perhaps I have the one you want.

Gordon S. Gooderham

Manor Farm

Clarkson, Ont.

Offers for sale several young bulls from high testing dams; one born in February, whose dam, LAKEVIEW DUTCHLAND WAYNE ROSE, is the highest producing cow of her age in the world. At 2 years and 8 months she made 31.71 lbs. butter from 510.6 lbs. milk, in 7 days. He is sigd by King C. Segis, direct blood of King Segis and King of the Pontiacs. We also have a half dozen others of less value. DR. F. A. HESLOP, PROP., R. R. No. 1, FREEMAN. Chas. Heslop, Manager.

#### Arthur Peas.

This variety stands to-day among field peas as the earliest in commerce that will give profitable yield. There are earlier field varieties and very early varieties among the garden sorts, but they will not return, when grown for general purposes, a commensurate profit on the labor expended. It has held true, as it does in practically all classes of grain, that the advance has been made at a slight sacrifice in yield, but as the Arthur matures some three to ten days in advance of the depending entirely on the district, this slight loss is a negligible factor in the parts of Canada where, if the Arthur variety were not grown, it would be practically impossible to grow peas with either satisfaction or profit.

The Arthur variety carries its flowers in a cluster or "crown" at the end of the vines, thus differing in habit from the other varieties, Golden Vine and Prussian Blue which bear their flowers distributed at various points over the steme. It is thought that this characteristic render the Arthur variety somewhat susceptible to injury in districts where very dry heat prevails at time of flowering. The results from our southern prairie stations where it gives a slightly lower yield, especially at Lethbridge, Alta., tend to con firm this opinion.

This variety serves its best purpose in the northern districts, within the fiftyfirst and fitty-fourth parallels in Western Canada and all the northern districts of the eastern provinces extending up to the fifty-first parallel. Small districts lying within the defined territories, subject to both late spring and early fall frosts, may find even the Arthur variety too late for their peculiar conditions. It must not be assumed that this variety is only suitable where its early maturity offsets its slightly lower yield. In the eastern provinces, in many cases, it yields equally well with the Golden Vinc and Prussian Blue varieties and, on ac count of its superior color and quality, frequently commands a higher price on

# **Brant County Holsteins**

IN THE FIFTH ANNUAL CLUB SALE

THIRTY-SIX FEMALES — FOUR YOUNG BULLS 

Selling at Hunt & Colter's Livery Barns, in the City of

Brantford, Ont., Tuesday, April 2, 1918

NCE more the Holstein Breeders of Brant County and district ask your co-operation in making their annual sale the usual success, having consigned to this sale forty head of as choice cattle as were ever offered in the history of the club. The thirty-six cows catalogued are young, and mostly all freshen around sale time. The four young bulls are all real strong calves and extra well bred.

YOUR PRESENCE AT BRANTFORD IS AGAIN REQUESTED ON APRIL 2nd

For Catalogues Apply to:

N. P. SAGER, ST. GEORGE, ONTARIO

E. C. Chambers, President

W. Almas, Auctioneer

## SUMMER HILL HOLSTEINS

A number of choicely-bred bulls. One a real show bull, beautifully marked, dam a 30.76 junior four-year-old; sire's dam 34.60. The three nearest dams average over 100 lbs. milk a day. Can spare a few good heifers.

D. C. FLATT & SON, R. R. 2.

MAPLE SOIL STOCK FARM OF HOLSTEINS I am offering a few choice heifers, sired by King Segis Pietertje, that have just been bred to Finderne King May Fayne; also some heifers and cows due to freshen all the way from February until April. All bred to Finderne King May Fayne; a few heifer calves sired by Finderne King. Get some good ones. H. C. HOLTBY

R. R. No. 1

GLANWORTH, ONTARIO.

#### THE HEAD

Dispersion Sale of

43 HEAD

(THE PROPERTY OF COL. JOHN A. GUNN will be held on

Friday, April 5th, 1918

At the Union Stock Yards, Toronto

Inadequate railway service and scarcity of efficient help compel us to go out of dairying. The herd is being sold in Toronto as train connections for Braverton are not good for buyers from a distance. Some 30 of the herd are now bred to Echo Segis Champion, whose sire is a full brother of May Echo Sylvia. For Catalogues (Ready March Fifteenth) Apply to: —

THE DUNROBIN FARMS, BEAVERTON, ONT.

#### 29.68 lbs. butter, 563.7 lbs. milk as a junior three-year-old

This is the official record of

## Burkeyje Hengerveld May Echo (12658)

Her dam "Burkeyje Hengerveld", is Canada's first 20,000 H. 4-year-old. Her she is a son of "May Echo" and a % brother of the great "May Echo" Sylvia" (world's champion).

You can buy her son, sired by "Hillcrest Ormsby Count of Son of "RAUWERD COUNT DEKOL LADY PAULINE," 29,000 lbs. railk, 1,113 lbs. in 1 year, 112 lbs. milk in 1 day. Dam of K. P. Rauwerd, 3,413 lbs. butter as senior 3-year-old, 103 lbs, milk in 1 day.

Where Can You Equal This for Production and Re-Production? He is largely white in color—a beauty. Write us for Price, etc.

JOS. O'REILLY, R. R. No. 9, PETERBORO, ONTARIO

### **DUMFRIES FARM HOLST**

Present Offering-A few bull calves. S. G. & ERLE KITCHEN

ST. GEORGE, ONI

he markets. The Golden Vine and Prussian Blue varieties are, however, old standard sorts which give high yields and wherever the grower has had success with either of these, untroubled by the problem of maturity, we would not recommend him to change for the Arthur. In the exreme southern parts of Alberta and Saskatchewan, we would recommend these

varieties in preference to the earlier sort. In peas, as in all other classes of grain in Canada, there is a keen need for early, productive varieties. Within certain limits the problem of securing the combination of earliness with a large yield can e solved by plant breed too much to expect that the Arthur variety may some day be replaced with an earlier-maturing field sort that will give an equally large yield. Until that time, the Arthur variety can be recommended universally in Canada to all farmers who find difficulty in ripening field peas before frost, or who are anxious to grow a fairly prolific sort that will produce seed of fine quality and high market value. - Experimental Farm Note.

#### Gossip.

#### Springhurst Shorthorns.

Of the four bulls advertised in these columns by Harry Smith of Springhurst Farm, Exeter, Ont., all are of serviceable age and all may be called herd sires. ake Mr. Smith's offerings at all times these youngsters have been well grown, but in no way forced, which should add greatly to their worth at the head of a One is got by Blarney Stone conadd to be the best sire ever used at springhurst, and one is got by his son, Volunteer, the present herd sire at Spring-This young sire is following a close second to his sire with every prospect being equally as famous at maturity. Meather of the four calves referred to is at a thick, mellow fellow of the right and is got by the noted Roan Lady will, Refiner, while the fourth is someat of plainer breeding although a hat good individual. Write at once for all particulars about these bulls and a very limited offering in females.

MARCH 28,

#### Land Sett

The develop of Canada, and ability which building up o most remarka modern histor mous increase i ment of the V the years 1891 of a combin among which t were the devel tion system of ful organization ments. This matter to wha found that the tlement might measure of suc development tl

The defects tlement in Can dent or, at les years. Even in a much longer lately that th recognize the fa development pi tlement is esse

economic struct Whatever ma of the system Canada up to has come to ab placing people of organization and farmer is to be have the kind ties provided for make profitable

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ment of the land To keep the f they get there problem than the to the land. Th the land in the time, and we a acres of land, wh one time, are no present s ductive of much Whether these st or not, the fact responsible peop affairs that dema men now hesitate first place, and fi in the second p stay away, wit quences to rural their absence? reasons are:

First, the num holding of large a accessible land b want of proper pl and development Second, the co tions and the edu

cities and towns, Third, the lack adequate return farmer, because of rural credit and tion of his produc

To secure any rural life and cor bring tracts of la purposes into use schemes of the la ment, try is take social and educa cities into the ri taneously, provi financial and dis that are prossary larger share of the Thomas Adams, Development, pul of Conservation.

#### Land Settlement in Canada

The development of the land resources of Canada, and the skill and constructive ability which have been applied to the building up of the population and industries of the country during the past twenty years, combine to make one of the most remarkable achievements in the modern history of nations. The enormous increase in population and the settlement of the Western provinces between the years 1891 and 1914 were the result of a combination of circumstances, among which two of the most important were the development of the transportation system of the country and the skillful organization of the Canadian governments. This has to be recognized no matter to what extent it may now be found that the absence of proper planning and a more scientific organization of settlement might have secured a greater measure of success in connection with the development that has taken place.

The defects in the system of land settlement in Canada have only become evident or, at least, pronounced in recent years. Even in the United States, where a similar system has been in operation for a much longer period of time, it is only lately that the people have begun to recognize the fact that a scientific plan of development prepared in advance of settlement is essential to enable a sound, economic structure to be built up.

Whatever may be said as to the success of the system of land settlement in Canada up to a certain point, the time has come to abandon careless methods of placing people on the land without proper organization and careful planning. If the farmer is to be kept on the land he must have the kind of organization and facilities provided for him to enable him to make profitable use of the land.

In other words, the farmer requires a stronger tie than what is provided by the "magic of property" to keep him on the land. He requires the facilities and means to live as well as to exist; the enjoyment of better social conditions for is wife and family as well as for himself; the use of capital at a reasonable rate of interest, and the satisfaction that the facilities for distributing his products and for utilizing the natural resources of the country are not controlled to the disadvantage of his class. We have relied too much on the magnet of ownership to attract the laboring farmer to the soil of Canada, and too little on the more enduring magnets of social amenities and efficient organization of the actual development of the land.

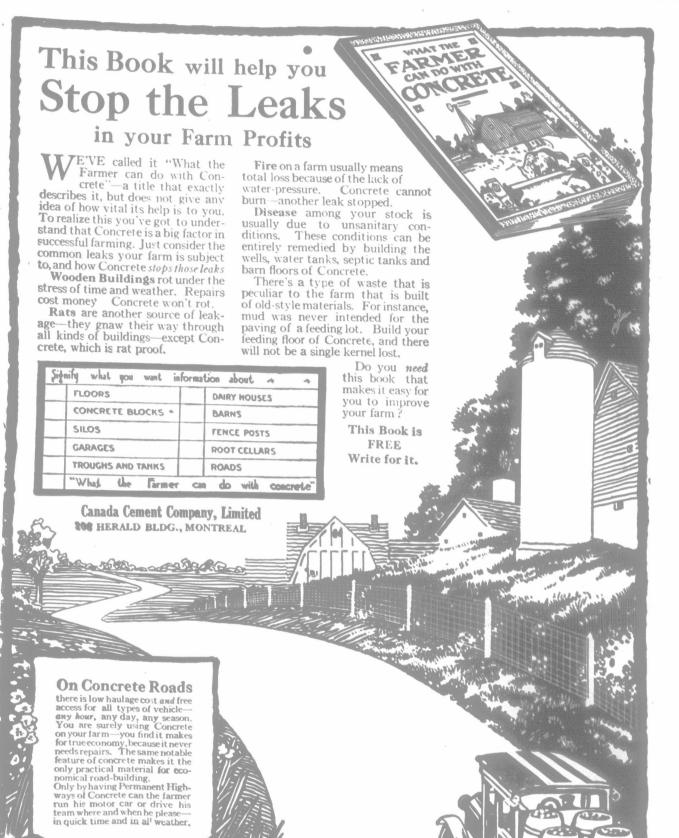
To keep the farmers on the land when they get there has become a greater problem than that of first attracting them to the land. They are said to be leaving the land in thousands at the present time, and we are told that millions of acres of land, which had been occupied at one time, are now deserted, and that the present system of land settlement is productive of much poverty and degradation. Whether these statements are exaggerated or not, the fact that they are made by responsible people indicates a state of affairs that demands a remedy. Why do men now hesitate to go on the land in the first place, and find it uncongenial to stay in the second place? Why do women stay away, with the injurious consequences to rural life which is caused by their absence. their absence? The three outstanding

reasons are: First, the numerous ills caused by the holding of large areas of the best and most accessible land by speculators, and the want of proper plans for the economic use and development of the land.

Second, the compelling social attractions and the educational facilities of the

cities and towns, and,
Third, the lack of ready money and of adequate return for the labor of the farmer, because of want of co-operation, rural credit and of facilities for distribu-

tion of his products. To secure any real improvement in rural life and conditions we must try to bring tracts of land held for speculative purposes into use, prepare development schemes of the land in advance of settlement ment, try to take part, at least, of the social and educational facilities of the cities into the rural areas, and, simultaneously, provide the co-operative financial and distributive conveniences that are processary to give the farmer a larger share of the profits of production.—
Thomas Adams, in Rural Planning and Thomas Adams, in Rural Planning and Development, published by Commission of Conservation.



## Hospital for Insane, Hamilton, Ont.

ONLY THREE BULLS LEFT

A splendid fellow, more white than black, born May 1917. He is a grandson of Dutchland Sir Mona, and his dam is a half sister of the famous Toitilla of Riverside.
 Born September and December, 1917, of A. 1. R.O.P. dams.

APPLY TO SUPERINTENDENT.

## Roycroft Farm Holstein-Friesians

Our 30-lb. bulls have all been sold, but we still have several sons of Pontiac Korndyke of Het Loo that are just nearing serviceable age. Get one of these for your next herd sire, have a brother of Het Loo Pietertje, the world's greatest junior two-year-old, at the head of your herd. We also have a 9-months, 27.78 lb. son of King Segis Alcartra: and one other, same age, by Dutchland Colantha Sir Mona. See them at once or write early.

W. L. SHAW - ROYCROFT FARM - NEWMARKET, ONTARIO. Take Yonge Street Radial Cars from N. Toronto

#### CHOICE BULLS READY FOR SERVICE

No. 1—By a son of MAY ECHO SYLVIA. His two nearest dams (both Canadian champions), average 35.62 lbs. butter in seven days. Price \$1,000.

No. 2—By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old), average 34.17 lbs. butter in seven days. Price \$600.

Some extra choice young bull calves from \$200 to \$1,000. We have sold 37 bulls this winter.

HIGHLAND LAKE FARMS R. W. E. Burnaby, (Farm at Stop 55, Yonge Street Radial) Jefferson, Ont.

Sylvia Poutiae) whose two grandams are K.P. Pontia Echo Sylvia, 41 lbs. in 7 days, 152 lbs. m.3 cm i day 4-year-old; butter in 7 days, 30,77 lbs.; 30 days, 124,34 i Lass, 44.18 lbs. butter in 7 days, and May Dam of bull offered—Pictje Inka Pietertje, jr. ibs.; milk in 1 day, 102½ lbs; 7 days, 696 lbs.; BROWN BROS., LYN, ONTARIO

#### DAIRY CONFERENCE

To be held in the MASSEY HALL, O. A. C., GUELPH, April 4th and 5th, 1918.

GUELPH, April 4th and 5th, 1918.

The spring of the year is a good time to consider plans for greater efficiency in Duirying for the coming season. Speakers for this conference are: Hon. Mr. Crerar (conditional); Df. Creelman; Dr. G. L. McKay, of Chicago; Dr. C. J. Hastings, Toronto; Messra. Stonehouse and Doherty, representing Milk Producers; J. Bingham, Ottawa; W. H. Forster, Hamilton (Milk Dealers and Ice Cream); G. A. Putnam, R. J. McLean (Produce Dealers); F. Boyes (Cheese Mfr.); F. Herns, G. C. Publow, Mack Robertson, J. A. McFeeters (Creamery Assoc.); D. McMillan, S. B. Trainer. The Presidents of the Eastern and Western Dairymen's Associations, Messrs. Legget and Donaldson, will preside at two of the sessions, and Mr. S. Young, Pres. of the Guelph Milk Producers' Assoc. at the first session. This meeting will represent every phase of the Dairy Industry of Ontario. Every dairyman and dairywooman is invited. Music at evening session. For programmes, apply to

H. H. DEAN, O. A. C., Guelph, Ont.

#### For Milk, Butter, Cheese, Veal, Holstein Cows Stand Supreme

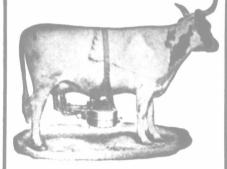
If you try just one animal you will very soon want more. WRITE THE

HOLSTEIN-FRIESIAN ASSOCIATION W. A. Clemons, Sec'y, - St. George, Ont.

1 bull 2 years old; 1 bull 18 mos. old, from a 231/2 lb. 3-year-old dam. One bull 13 mos.; others younger.

R. M. Holtby, Port Perry, Ont.

## The OMEGA Milking Machine



has been installed in the private dairy of H. M. King George V. at Windsor Castle and also at His Mijesty's private estate at Sandringham. The OMEGA, in a 17-day test on ten cows, (against 17 previous days) at the O. A. C., Guelph, increased the milk flow 206 pounds, or 3 per cent.

#### Cleanly and Efficient

The OMEGA is the only machine that draws the milk from the teats through stiff, transparent celluloid tubes to the pail which is suspended from the cow. (See cut). The pail cannot be kicked over and the teat-cups cannot fall to the floor and suck up straw or manure. There are no rubber tubes in the OMEGA is simple in design and easily cleaned.

WRITE TO-DAY for Free booklet describing the many exclusive and desirable features of the OMEGA.

C. RICHARDSON & CO. St. Mary's Ontario



## Fernbrook Ayrshires

Young bulls for sale (out of R. O. P. dams) closely to the world's champions, Gar-claugh May Mischief and Jean Armour.

COLLIER BROS., Beachville, Ontario (OXFORD COUNTY)

#### **Ayrshire Cows**

will make money on any farm WRITE W.F. STEPHEN, Secretary CANADIAN AYRSHIRE BREEDERS'ASS'

Box 513 Huntingdon, Que.

Choice Offering in Ayrshires At Special Prices. Several young bulls of ser-viceable ages. All from R. O. P. sires and dams. John A. Morrison, Mount Elgin, Ontario

Glencairn Ayrshires Herd established 40 years. Producing ability from 8,600 to 11,022 lbs. It that sort of production appeals to you, we have heiters all ages and young balls for sale. Thos. J. McCormick, Rockton. Ont. Copetown Station, G. T. R

CITY VIEW AYRSHIRES One bull, ten months old; dama's R.O.P., 6,500 lbs milk, 4.64° fat as a two year-old. Several bull calves — might spare a few females. R.-C. and S.-C. Reds. White Wyandottes — eggs for setting now resolv. James Begg & Son, St. Thomas, Ont.

Kelso Farm R. O. P. Ayrshires. Herd headed by Palmston Speculation Imp. We never had a stronger line-up of R. O. P. producers than we have at present. Our 1917-1918 young ball-are sure to please. D. A. MacFarlane, Cars Crossing, G. T. R., Athelstan N. Y. C.; Kelso, Que.

PATENTS Trade Marks and Designs Procured in all Countries.
Special attention given to patent litigation. Pamphlet sent free on application RIDOUT & MAYBEE Crown Life Bldg. Toronto, Ont.

Why Northern Grown Seed Potatoes Increase Yields.

EDITOR "THE FARMER'S ADVOCATE"

The superiority of Northern Ontario for the production of seed potatoes is due, we believe, to three factors. The first of these is found in the peculiarly favorable climate that prevails in the north. The natural habitat of the potato was found in the high plateaus in Colorado and Peru. The characteristics of the climate prevailing in these districts are: Longgrowing days of sunshine, cool nights, abundant moisture and heavy dews, without periods of drought. Under such conditions the potato has been proven to thrive best. In Northern Ontario these conditions are prevalent. Severe heat and drought which arrest the growth and lower the vitality of potatoes-are very uncommon, while abundant rains and heavy dews are the rule.

Physiological diseases which are becoming all too common in Old Ontario are hardly known in the north. Leaf Roll, the worst of these diseases was not found in a single case during a lengthy investiga-tion conducted in Northern Ontario in the summer of 1917. Curly Dwarf was not noted either. Mosaic, a bad disease, but less serious than Leaf Roll, was encountered to a small extent, but in a very few cases was the percentage of diseased plants large. These diseases are all hereditary. Their action is to stunt the growth of the plants and reduce the size and number of the tubers. If tubers from plants affected with this disease are planted, the disease will exist in the resultant plants in a still more aggravated form until in the third or fourth generation, the plants will be very small and stunted, and the crop of marketable potatoes produced by them almost nil.
From experiments conducted by P. A.

Murphy, who has charge of potato disease investigation work in Canada, it would appear that these diseases a e also communicable. Just how they are communicated is not known, as no organism has been found which causes them. It is thought, however, that enzymes of the diseased plants contaminate healthy plants immediately adjacent to them. It is generally believed that the diseases are produced by prolonged drought or other unfavorable conditions which produce the degeneracy noted.

Whatever the cause, however, it has been abundantly proven that these diseases are about the most serious obstacle which the potato grower has to face. As an example, a number of experiments conducted in Nova Scotia may be cited. Several lots of potatoes were planted in this experiment, some from healthy and some from diseased stock Where 100 per cent, leaf roll was present the plots yielded at the rate per acre of from 36 to 46 bushels of marketable potatoes. Where no leaf roll was pre-ent from 226 to 240 bushels of marketable potatoes were secured per acre. Intermediate percentages of leaf roll gave yields varying between these two extremes very nearly in direct proportion to the amount of leaf roll present. As a general result of these experiments it may be taken that for each per cent, of leaf roll present in the crop, the yield of marketable potatoes will be reduced one and two-third bushels

It is believed that these diseases can be communicated to healthy plants, and they are certainly inheritable. The best authorities both in Canada and United States agree that it is practically impossible to control these diseases, in a district where they are well established, by selection. The only safe remedy is to secure seed from a district where they have not become established. This district, so far as it affects potato growers in Old Ontario, would begically seem to be Northern Ontario. As has already been explaine I, physiological diseases have not yet become established to any extent in the north, and owing to climatic conditions which do not favor the development of such diseases, it is doubtful that they ever will become a menace to the potato industry in the north.

The third fact or which makes Northern Omario particularly adapted to the production of high-class quality of seed potato is the immaturity of the seed in these districts which is found. That immaturity increases yields can hardly be doubted in view of scientific experiment and practical experience which would seem





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MARCH 28, 19

to prove the point perimental Farm immaturity was d larly forcible v 1916, Professor W Horticulturist, co with potatoes on soil-sand, clay a planted on the m the boundary of Macoun discover. workmen were ste preserve uniformi had three lots du mature seed plant ing results, yieldir mature seed of planted on the sar

At a conference practical growers October, 1917, this ly discussed, and by all present th very greatly incr meeting, Walter ( plained his meth sod in July, after removed and plan provide his seed year. By the tir the tops, the imma sufficiently to be these methods he his yields in the bushels per acre.

In Northern On conditions, the se large size very factor of immaturi very important rea when planted in ( outstanding result In a series of

for five years, Dr Ontario Agricultur the relative merits in Northern Ontar Old Ontario. The ferent sources was on exactly the sa yield last year was and 200 bushels, results may be tak the five years' oper Practical grower

factory results. Sarnia Vegetable in his annual repo the members to pla in Northern Ontari report, that such s bers of his Associ increased their yiel-G. A. Williams, secured an increase acre by planting above the yield obta seed. G. Bridger Joak, Peterboro, O Sarnia, and Henr have all written to planting of norther they have increased 0.25 per cent Th in conjunction wi periments already clusively that potatoes give far Ontario. In consid an investigation wa late summer of 1917 tages of encouragin in Northern Ontario McCubbin, the Cl ologist in Ontario, Commissioner visite Northern Ontario y tatoes. Their meth best potato growers generally and make several hundreds of From this inspection percentage of diseas 87 growers in the ne

But after they finis they decided they ha tion they wanted. of the condition in N the potato inclustry know accurately th Ontario, particularly of physiological disea after, they visited t Ontario which specia ing-Carodoc Towns Middlesex, Frin Tow

of Wellington, and Con the County of Car In New Operation 11 cent, of serious diseas physiological disease the three districts in found very contame potate diseas and ar

to prove the point. On the Central Experimental Farm at Ottawa, the factor of mmaturity was emphasized in a particularly forcible way last summer In 1916, Profess r W. T. Macoun, Dominion Horticulturist, conducted an experiment with potatoes on three different types of soil-sand, clay and muck. The potatoes planted on the muck happened to be near the boundary of the farm and Professor Macoun discovered, early in the fall, that workmen were stealing these potatoes. To preserve uniformity in his experiment ha had three lots dug in August. This immature seed planted in 1917 gave astonishing results, yielding very much more than mature seed of the same variety and planted on the same soil.

At a conference of potato experts and practical growers held in Toronto in October, 1917, this question was thoroughly discussed, and it was gene ally agreed by all present that immaturity of seed very greatly increased yields. At that meeting, Walter Cook, of Cataraqui, explained his methods. He ploughed his sod in July, after a crop of hay had been removed and planted enough potatoes to provide his seed stock for the coming year. By the time frost had cut down the tops, the immature seed had developed sufficiently to be used next spring. By these methods he claims to have increased his yields in the neighborhood of 100 bushels per acr

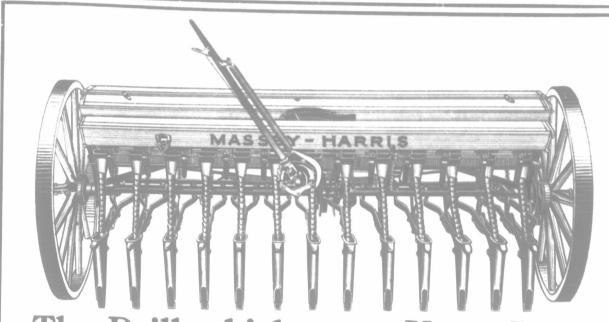
In Northern Ontario, owing to climatic conditions, the seed, while growing to large size very seldom matures. factor of immaturity is thought to be one very important reason why northern seed, when planted in Old Ontario, gives such outstanding results.

In a series of experiments conducted for five years, Dr. C. A. Zavitz, of the Ontario Agricultural College, has proven the relative merits of seed potatoes grown in Northern Ontario, New Brunswick and Old Ontario. The seed from these different sources was planted side by side on exactly the same kind of oil. The yield last year was 350 bushels, 318 bushels and 200 bushels, respectively, and these results may be taken as representative of the five years' operation.

Practical growers have secured as satisfactory results. The Manager of the Sarnia Vegetable Growers' Association, in his annual report in 1917, advises all the members to plant seed potatoes grown in Northern Ontario. He explains in this report, that such seed planted by members of his Association in the past has increased their yields at least 20 per cent. G. A. Williams, Peterboro, Ont., has secured an increase of 137 bushels per acre by planting northern grown seed above the yield obtained from home-grown seed. G. Bridger & Sons, Sarnia; W. Joak, Peterboro, Ontario; Guthaie Bros., Sarnia, and Henry Broughton, Sarnia, have all written to the effect that by the planting of northern-grown seed potatoes they have increased their yields from 20 25 per cent The practical experience in conjunction with the scientific experiments already explained, show conclusively that northern-grown seed potatoes give far better results in Old Ontario. In consideration of these facts, an investigation was undertaken in the late summer of 1917 regarding the advantages of encouraging the potato industry in Northern Ontario. Dr. Zavitz, W. A. McCubbin, the Chief Dominion Pathologist in Ontario, and the Assistant Commissioner visited every district in Northern Ontario where they grow potatoes. Their method was to visit the best potato growers, examine the crops generally and make minute inspection of several hundreds of hills in each field. From this inspection they calculated the percentage of disease, etc. They visited 87 growers in the north.

But after they finished the northern trip they decided they had not all the information they wanted. They had knowledge of the condition in New Ontario regarding the potato industry, but they did not know accurately the conditions in Old Ontario, particularly regarding conditions of physiological diseases. So immediately after, they visited three districts in Old Ontario which specialized in potato growing—Carodoe Township in the County of Middlesex, Frio Township in the County of Wellington, and Gloucester Township in the County of Carleton.

In New () and they found but 6 per cent of serious disease, and practically no physiological disease at all. In each of the three districts in Old Ontario they found very good amounts of all kinds of potate di ca and an alarming amount of



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SPRINGBANK CHESTER WHITES SPRINGBANA CHESTER WHITES Several young sows ready to breed and boars fit for service; young pigs, both sexes, ready to wean, by Sunny Mike—15917—first at Toronto in 1917. Satisfaction guaranteed, inspection invited. Wm. Stevenson & Son, Science Hill, Ontario physiological disease in each case. Altogether they discovered an average of 23 per cent. of serious diseases in these three older counties. Moreover, the northern crops were more vigorous and promised far larger yields.

While large districts in the north are not yet cleared, it is one of the great coming agricultural districts of America. Thunder Bay District alone has 40,000 acres of the very best potato soil, a considerable part of which is already under cultivation. Many thousands of acres of good soil of a heavier nature will be available for patents. good soil of a heavier nature will be available for potato growing in the future. As an example of how the industry is developing, it may not be amiss to state that four years ago the cities of Fort William and Port Arthur in Thunder Bay District were importing potatoes, whereas the district immediately adjacent now supplies those cities and exports to Old Ontario in the neighborhood of 140 carloads a year.

If growers in Old Ontario become once convinced of the advisability of planting northern-grown seed and are willing, by their orders, to encourage seed production in the north, New Ontario can be organized very easily to supply all that the older portions of the Province will re-

In order to encourage the development of a strong potato industry in Northern Ontario and to encourage also the planting of northern-grown seed by growers in Old Ontario, the Ontario Department of Agriculture has made certain definite plans to be of assistance this spring. All seed potatoes to be used for departmental purposes are being purchased either from Northern Ontario or from New Brunswick—a total in the neighborhood of 1,700 bags. Seed grown in Northern Ontario is preferred, but at the present time it is not possible to secure the quantity we wish of a guaranteed quality. With this seed bought by the Department some thousand farmers will be given small lots under the auspices of the Experimental Union. Some 10,000 school children who are taking part in Rural School Fairs will also receive small quantities. In every county in Old Ontario, the district representative will conduct demonstrations showing the relative value of seed grown in New Brunswick, Northern Ontario and in Old Ontario. Besides this, some 40 acres of potatoes will be planted by the Ontario Department of Agriculture on Government owned farms in Northern Ontario in order to produce foundation

stock of A-1 quality for northern growers. Besides this, it is planned to assist, to some extent, farmers in securing northern-grown seed. A few carloads of seed potatoes from New Brunswick of the Irish Cobbler and Green Mountain varieties, certified as to freedom of disease by the Dominion Government, are to be secured for the growers in Northern Ontario. This seed will be distributed at cost to farmers in three or four of the best potato-producing sections in the north. on these shipment will be paid by the Government, because freight rates between New Brunswick and Northern Ontario are high, and it is in the interest of the Province that a large potato industry become established as quickly as possible in Northern Ontario.

So far as Old Ontario is concerned, it has been arranged to put farmers who wish to buy seed of high-class quality of the Green Mountain and Irish Cobbler varieties in touch with New Brunswick sellers of the same. This seed was inspected last summer in the growing condition by Dominion inspectors, was inspected last December in the bin, and will be inspected in the spring before being loaded. Farmers and farmers' associations, therefore, who wish to purchase seed potatoes in carload lots may do so at a reasonable price and with a minimum of work on their part.

Next summer the Department of Agriculture has made arrangements to have a staff of inspectors who will make a survey of Old Ontario to determine the exact disease conditions as they exist. Other inspectors will work in the north, roguing the crops which result from first-class seed being shipped in this year, and roguing also other fields of first-class varieties reasonably free from disease and true to variety. By the fall of 1918 it should be definitely proven just how badly Old Ontario growers need a change of seed, and by that time provision will have been made for an ample supply of first-class seed grown in New Ontario to very largely meet this demand.-Justus Miller, Ass't. Commissioner of Agriculture.

## "Kindling Fires in Cold Rooms"

NE of the finest eulogies ever uttered referred to the late Earl Grey, once Governor-General of Canada:-

"He lit many Fires in Cold Rooms."

This expression summed up a life of exceptional benefi-

cence. Any citizen might justly exert himself to deserve such a commendation.

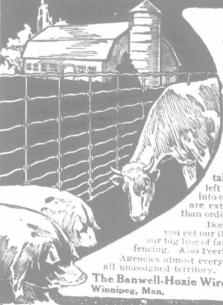
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BARGAINS.—Because we have not had help enough, or because we have been too lazy, or because we have been too careless, we are selling 40 young cows without records. They will furnish many BARGAINS. Why? Because they are unproven and when they get a chance they will become famous. That's Belleville Past History.

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OF THE BELLEVILLE KIND.—To be sold absolutely without reserve on April 3rd. Our Club protects the buyer by imposing a \$50 forfeit on each animal for by-bidding.

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# STANDARD RELIANCE MORTGAGE CORPORATION

THERE was a fair attendance at the annual meeting of The Standard Reliance Mortgage Corporation held on Monday last, the 4th inst. The following were present: J. A. Walker, K.C., Chatham; S. G. Bartlett, New Hamburg; A. W. Hilborn, Galt; W. M. Behrens, Elmira; John Laing, Freeman; David Ratz, New Hamburg; Henry G. Ruppell, Elmira; Robert Moon, Orono; Geo. Hufner, Hawkesville; W. C. Bates, Sackville, N. B.; A. H. Arnold, Brockville; Thos. Nihan, St. Catharines; N. H. Stevens, Chatham; C. A. Annis, Port Union; H. Schlemmer, Woodstock; Dr. J. T. Gilmour, John Firstbrook, F. C. L. Jones, J. A. Jackson, W. Crackle, R. S. Stonehouse, Rev. W. P. Dyer, D. D. James, F. W. Micklethwaite, G. M. Wright, E. F. B. Johnston, K.C., R. H. Greene, W. T. Cowan, R. H. Cosbie, Fred. Walker, B. H. Boyd, W. J. Fawcett, J. W. McKay, Chas Bauckham, Rev. G. I. Taylor, Geo. A. Young, Alex. Stewart, H. Waddington, R. E. Walker, Rev. B. R. Strangways, W. Vandusen, J. A. McEvoy, David Kemp, Mrs. L. Mickelthwaite, H. W. Maw, O. S. James, E. P. Beatty, R. S. Weir, Toronto.

The President of the Corporation, Mr. N. H. Stevens, took the chair, and Mr. H. Waddington, the Managing-Director, was requested to act as Secretary.

The annual statement, as set out below, was presented and read to the meeting by the Chairman, and after dealing with the business of the Company generally, he moved the adoption of the report.

The motion to adopt was seconded by Mr. John Firistbrook, the Vice-President, after which the Managing-Director gave a detailed address, dealing in particular with the several items in the balance sheet, and giving comparisons with the years passed, from which he showed that, as compared with a year ago, the assets had increased \$1,046,804.88; that the deposits had increased \$314,289.67; that the debentures had increased \$368,554.10; that the net earnings had increased \$47,338.97, and that in liquid assets the increase had been \$380.650.70.

\$360,650.70.

3860,650.70.

As compared with five years ago, the increases were as follows: Assets, \$3,326,222.27. Deposits, \$623,549.69. Debentures, \$1,690,672.28. Net earnings, \$82,979.70. Liquid Assets, \$580,290.00.

The Mortgage Loans by Provinces were shown to be as follows: Newfoundland, \$1,323.08. Nova Scotiagoria, \$72,054.36. New Brunswick, \$1,875.62. Quebec, \$2,018.97. Ontario, \$5,565,091.69. Manitoba, \$140,392.94. Saskatchewan, \$645,324.74. Alberta, \$177,961.96. British Columbia, \$10,163.77. These mortgage loans, with accrued interest at the end of the year, made up a total of \$6,651,501.74. The valuation of the properties on which these loans were made and as taken from the records was shown to be \$13,201,954.

Several of the shareholders present expressed their pleasure at the fine showing made and at the information given, after which the motion to adopt the report was put to the meeting and declared carried unanimously. Messrs. A. C. Neff, F.C.A., and J. F. Lawson, F.C.A., were re-elected the Auditors of the Company for the ensuing year. On motion the following were re-elected Directors: E. F. B. Johnston, K.C., John Firstbrook, Nathan H. Stevens, E. Jessop, M.D., J. A. McEvoy, Herbert Waddington, W. J. Fawcett, David Ratz, James Gunn, David Kemp, E. C. McNally, Rev. G. I. Taylor, M.A., R. H. Greene, J. T. Gilmour, M.D. At a meeting of the Board of Directors held subsequent to the annual meeting, Mr. E. F. B. Johnston, K.C., was re-elected as Chairman of the Board, Mr. N. H. Stevens as President, and Mr. John Firstbrook as Vice-President.

BALANCE SHEET AS AT 81ST DECEMBER, 1917. ASSETS | Mortgage Loans and Accrued Interest... \$5,651,501,74 |
| Real Estate, acquired under foreclosure... 241,840,51 |
| Stocks, Bonds and Debentures, owned... 429,003,33 |
| Loans on Stocks, Bonds and Debentures... 43,104,80 |
| Sundry Investments ... 27,392,968,37 | LIABILITIES To the Public: Debentures with Accrued In-terest Deposits with Accrued Interest 1,031,700,15 Deposit Receipts payable on certain fixed dates and upon ninety days' notice ... 104,727,12 -104,727.12 -35,099.88 127,087.85 Agents' Balances and Accounts Receivable \$ 12,091.90 Total to the Public: Accrued Rentals 2.650.75
Municipal and War Loan Bonds with
Accrued Interest 535.623 14
Cash on Hand and in Banks 185.056.43 To the Shareholders: | Surplus Funds; | \$650,000.00 | Contingent Fund | 75,000.00 | Loss and Gain Balance forward | 32,633.85 | 757,693.95 735,422.22 Total to the Shareholders

\$3,362,378.63 \$8,436,555.08 \$8,436,555.09 LOSS AND GAIN ACCOUNT, 

CHAS. BAUCKHAM, Secretary-Treasurer.

AUDITORS' CERTIFICATE H. WADDINGTON, Managing Director. We have audited the books and accounts of the Standard Reliance Mortgage Corporation for the year ending 31st December, and have verified the Cash and Bank Balances and Secfirities, and we hereby certify that, in our opinion, the above Balance et exhibits a true and correct view of the affairs of the Corporation as shown by its books as of that date. Our requirements as

A. C. NEFF, F.C.A., J. F. LAWSON, F.C.A., Chartered Accountants, Branches-Chatham, Ayr, New Hamburg, Elmira, Brockville, Woodstock

#### DEEPER MEANING

## BISSELL **FARM IMPLEMENTS**

Toronto, February 16th, 1918,

**Disk Harrows** 

The name "Bissell" stands for quality of recognized Merit and Superiority. Business in its highest aspect is "ESSENTIALLY SERVICE".

Just as "Greatness is in proportion to service" in an individual, so the Implement which yields the greatest service to farmers is the best article. Look for the name "BISSELL." Disk Harrows bearing this name are "Built for Business," and none others are genuine. Land Rollers Built also in sizes for use with Tractors.

T. E. BISSELL CO. LTD., ELORA, ONT.

O Egg INCUBATOR

130 (hick Brooder 575 Freight and Duty

If ordered together we send both machines for only \$15.75 and we pay all freight and duty charges to any R. R. station in Canada. We have branch warehouses in Winnipeg. Man. and Toronto, Ont. Orders shipped from nearest warehouse to your R. R. station. Hot water, double walls, dead air space between, double glass doors, copper tanks and Hot water, double walls, dead air space between, double glass doors, copper ta boilers, self-regulating. Nursery under egg tray. Especially adapted to Canad mate. Incubator and Brooder shipped complete with thermometers, lamps, egg—ready to use when you get them. Ten year guarantee—30 days trial. Incubatished in natural colors showing the high grade California Redwood lumber us painted to cover inferior material. If you will compare our machines with oil feel sure of your order. Don't how until you do this—you'll save money—it pays to igste before you buy. Kemember our price of \$15.75 is for both Incubator and Brooder refreight and duty charges. Send for FREE catalog today, or send in your order and so oped complete with thermometers, lamps, egg test— Ten year guarantee—30 days trial. Incubators i e high grade California Redwood lumber used— If you will compare our machines with others, ntil you do this—you'll save monay—is an WISCONSIN INCUBATOR CO. Box 226

Don't Dela RACINE, WISCONSIN, U. S. A.

\$5,074,176,48

Gossip. Riverside Holstein Herd Sales.

In reporting a few recent sales of well bred young bulls to various Ontario breeders, J. W. Richardson of Riverside Farm, Caledonia, Ont., advises us that he still has several of the best bred bulls on hand he has ever raised on the farm, There are, for instance, a pair of tenmonths twin calves from the noted 29.42-lb. Toitilla of Riverside, dam of the former Canadian R. (). P. champion, and these are sired by King Johanna Pontiac Korndyke, a grandson of the great Pontiac Korndyke. There are also a number of other bulls up to 14 months of age and from daughters of King Johanna Pontiac Korndyke and sired by the herd sire at Riverside, Francy Bonerges Hartog. The former sire now has 26 R. O. M. daughters all with records bewteen 17.62-lb. senior yearlings to 23-lb. junior 3-year-olds. Francy Bonerges Hartog it will be remembered is a half brother to Bonerges Ormsby 4th, 24.15 lbs., second highest senior two-year-old in Canada, and his dam was a sister to Jennie Bonerges Ormsby, 33.01 lbs. and which made over 30 lbs. butter in 7 days for five consecutive years. On the sire's side he is a grandson of Royalton De Kol Fern, a 34.6-lb. cow. Several of the recent sales referred to were as follows: A 3-weeks-old calf out of Lady Aaggie Toitilla of Riverside, 30.49 lbs. and by the herd sire, to G. E. Wood of Cainsville; a son of Toitilla De Kol Sarcastic, the 29.42-lb. cow mentioned above, to Walburn Rivers of Ingersoll, and a son of Toitilla Sarcastic Rue, 28.88 lbs., to Geo. Ellacott, West Monkton.

#### Rabbits.

EDITOR "THE FARMER'S ADVOCATE":

I have recently become interested in the rabbit industry. I believe we in Canada need to be educated on the matter of rabbits as household economizers. What goes into the garbage pail in the average household would form the main part of the diet of half a dozen rabbits. It is extraordinary how many people shudder when rabbits are mentioned as food. And yet out of these very people nine out of ten would certainly not be able to distinguish any part of a properlycooked rabbit from the breast of a chicken.

As a household economy during the war; as a new industry of a most worthy character; as an auxiliary to making little go a long way in town or on the farm, the rabbit deserves our best attention at the present time. Nowadays the pet stock show without a good rabbit exhibit is decidedly incomplete. The pet stock journal without a rabbit column does not xist. The time is coming when the rabbit, now with most Canadians a subject for jest, will be one of the growing industries of our country.

York Co., Ont. ALLAN N. McEvoy.

#### For Greater Production.

The following letter has been received from S. R. McVitty, Principal of Mt. Elgin Indian Industrial Institute, Muncey,

"With the most hearty co-operation of the Superintendent General of Indian Affairs, we have arranged to let our semior boys go out about the middle of April and assist farmers in "Greater Production Campaign". cunning the Institute farm this year with he assistance of senior girls. We could also spare a few girls to assist farmers

These boys are well trained, and apable of handling horses, and all kinds t tarm machinery. They can remain mil midsummer, or even harvest. 25.00, \$30.00 to 35 per month, cording to age.

"It will be my duty to see that they ender faithful service, and also to see hat they get good, kind treatment.

Our object is three-fold: 1st. To and through them, our

2ml. To give the boys an opportunity cathing some money for themselves. and. To demonstrate what girls can do tarm if properly guided.

these needing help should write Mr.

MARCH 28, 19

Agents

It took nearly the manufac the conclusion the Ideal Unit. 80% of the trac

are three plow to Less Gears, Le make of Tract the Hyatt mak

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Questions Misce

Root Seed a 1. When should for seed? How far

2. Do the agri bulletins regarding for seed? 3. Can a calf l sire and dam are

both being pure-br Ans.-1. As so enough to work we 2. If you mean Agriculture we may could be obtained

Department of Directions have be columns. 3. No. Such a c

Seed C

I\_placed my with a Toronto firm you think I will get 2. Would Teosi what cultivation do 3. Would salt be and grain?

Ans.-1. We do get seed but it is un the varieties you at they will not likely b write the firm you or 2. Teosinte is a would not take the

district. 3. If you mean o to corn; it might

such crops as barley. A Hor

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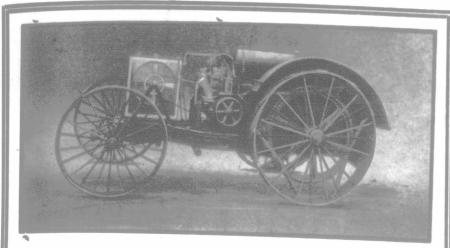
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## E LEONARD & SONS, LIMITED

London, Canada

Agents for the

## HUBER Light-Four Tractor

It took nearly twenty years' experience in the manufacture of Gas Tractors to reach the conclusion that the *three bottom* type s the Ideal Unit.

80% of the tractors sold in the United States
are three plow tractors.

Easily pulls three 14-inch bottoms, set 8 inches deep. Plows an acre an hour. Rune

Less Gears, Less Bearings than any other make of Tractor. Roller Bearings are of the Hyatt make,

Buy a tractor like the Huber Light Four. Thoroughly tried and tested. Many exclusive features in design and construction. No freaks or fads.

Easily pulls three 14-inch bottoms, set 8 inches deep. Plows an acre an hour. Runs all farm machinery. 12 H. P. at the draw bar, 24 H. P. at the belt.

Burns gasoline, kerosene or distillate,

### Our Folder "Doing the Impossible"

is a record achievement. It proves the excellence of the Huber.

Write for it and our proposition.

## SERVE BY SAVING!

When the Germans, forced to retreat by the French, cut down and mutilated every fruit tree in their path—they did so realizing the value of fruit crops to the French army and population.

The Fruit Crops of Canada are essential not only to our own armies but also those of the Allies. Save the fruit crops by killing the armies of the bug invaders with

# ACCO SPRAY

Acco Spray is the king of bug exterminators. Acco costs less than Paris Green or Arsenic poisoning and does the work more thoroughly. Where Acco is bugs cannot live.

The thrift habit is more important this year than ever before on account of war wastage. Food must be produced and the crops we have saved. Do your duty by safeguarding the yield of your orchard with Acco Spray.

A Sample of Acco Spray Sent Free on Request.

#### ACCO CHEMICAL CO.

10-12-14 McCaul St., Toronto, Ont.

Harold F. Ritchie & Co., Ltd., Sole Agents for Canada



## Questions and Answers.

#### Root Seed and Calf Queries.

1. When should turnips be planted for seed? How far apart?

2. Do the agricultural people publish bulletins regarding the growing of turnips for seed?

3. Can a calf be registered when his sire and dam are of different breeds, both being pure-bred. W. J. M.

Ans.—1. As soon as the land is dry

enough to work well.

2. If you mean the Departments of Agriculture we may say that full directions could be obtained from the Seed-Branch Department of Agriculture, Ottawa. Directions have been published in these columns.

3. No. Such a calf is a cross bred.

#### Seed Corn-Salt.

1. I placed my order for seed corn with a Toronto firm on March 1st. Do you think I will get it?

2. Would Teosinte replace it, if so what cultivation does it require?
3. Would salt be of any benefit to corn and grain?

J. R. H.

Ans.—1. We do not know. You may get seed but it is unlikely that you will get the varieties you at first desired because they will not likely be available. However,

write the firm you ordered through.

2. Teosinte is a hot-climate crop and would not take the place of corn in your district.

3. If you mean on the land, not much to corn; it might do a little good for such crops as barley.

#### A Horse Deal.

I bought a mare rising four from B, and she was to be sound and free from disease. There was a dry scab on her back and he told me that was nothing but a scratch and she was not in good condition when I bought her but he said she had come from a poor home and that she would scon pick up. The sore on her back is discharging and she is breaking out in different places and is very poor. I got the V. Set to see her and he came on and off for 2 months. She eats well and I

THE FARMERS SEEDS FIFTY-TWO YEARS SEEDSMAN

The demand for seeds this year will be unparelleled, has every available are must be unparelled. As has been day unparelled, has every available are must be unparelled. As every available are must be unparelled. As has been day unparelled. As has been day long, the following with to-day. No. 1 for purity 15.50 Sweet Clover, white blossom. 18.00

Alfalfa, Ontario variegated No. 2, No. 1 for purity 25.00

No. 1 Timothy, extra No. 1 for purity 25.00

No. 2 Timothy, No. 1 for purity 25.00

No. 2 Timothy, No. 1 for purity 25.00

No. 2 Timothy, No. 1 for purity 25.00

No. 2 T

GEO.KEITH & SONS

124 KING ST. E TORONTO

## -IT'S EASY-

to make them sound good on paper, but will you please come to the Belleville sale and study their breeding and look them over for yourselt?

their breeding and look them over for yourselt?

My consignment is small but Eigh class consisting of Count Alcartra Segis, son of King Segis Alcartra Spofford and that wonderful ow, Lady Segis Walker, who, together with 5 of her sisters last spring, milked over 100 lbs, a day, and made over 30 lbs, butter in 7 days. He is a typical duity bull, and fit to head any herd in Canada. His dam made her record with three-quarter udder. Countess Walker Segis, who has a 26.25-lb, three-year-old butter record, and is a full sister to Lady Segis Walker. Sylva Segis Posh, who has a 22.124-lb, two-year-old butter record, and made a Canadian milk record at two years old; her dam being Princess Segis Walker, who his nearly 31 lbs, and made a world's milk record at four years old. These are hand henters, in call to "King," and we'll be there with their working-fothers on, having milked heavy all winter. They are tuberculin tested. I am having the nerve to you sign them, Vie Beser will content a tree content and to a choice.

ED. B. PURTELLE -

Bloomfield, Ontario

have been feeding bran, oats and good hay all winter but she doesn't seem to gain. Can I put her back on B's hands and get my money back? I paid \$125 for her and I have a witness, the manager of the bank.

Ans.—This is one of the questions which should be decided amicably between vendor and purchaser. A great deal depends upon the time you kept the mare without complaint to B that she was not as represented. We would advise that you get together and settle the matter. Of course if you can prove that B knew the mare was diseased and attempted to unload her on to you it is likely you could come on to him for damages or to accept the return of the mare. You had better get the advice of your veterinarian re the disease before taking action.

#### To Prevent Navel III.

I have a mare due to foal in May and I would like to know if there is anything I could give her to prevent foal from having navel disease. She lost two with this disease, one two, and one three years ago. She was not in foal last year.

Ans.—Although some firms advertise a commercial preparation to be fed to mares before foaling claiming that it will prevent joint ill or navel ill we do not believe that veterinary practitioners have any faith in it. All you can do is to be ready to treat the navel when the foal arrives. Have a five to ten per cent. solution of carbolic acid ready, As soon as the foal is dropped put a little on the raw navel surface and continue to treat three or four times a day until the navel dries up. Have the mare foal in a clean stall.

#### Killing Noxious Weeds.

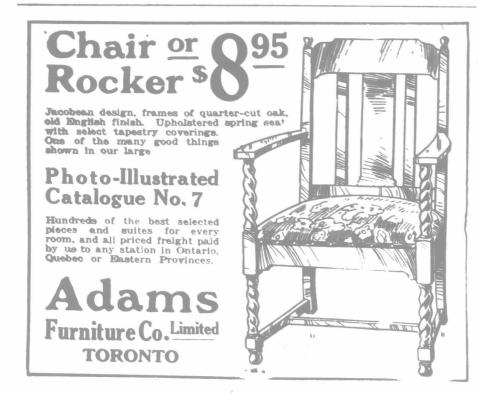
Will noxious weeds be killed by leaving manure in barnyard until needed for summer fallow, or would it need to be placed in another heap to heat again?

Ans. If the manure heats sufficiently the weeds will practically all be killed. However as this is seldom the case it is advisable to tork the manure into another pile to thoroughly mix it and cause uniform heating.

MARCH 28, 19

BII

PROD





Dairymen! Raise your calves on GROFAST Calf Meal and sell all your milk. Calves thrive on this scientific substitute for milk. It is easily mixed, and the calves LIKE it. It is a great money-maker for every dairyman and cattle raiser. Ask your dealer for GROFAST, Write for booklet, "How You Can Raise and Grow Calves at a Low Cost Without Milk."

INTERNATIONAL STOCK FOOD CO., LIMITED Ask Your Dealer **TORONTO** 

### INTERNATIONAL GROFAST CALF MEAL

For Immediate Sale **CLYDESDALE STALLIONS** 

Cumberland Recruit (imp.) 13372, foaled 1909; sure, active and quiet. Form 1. One Clydesdale stallion, bay, rising two years old. Also a few young Shorthorn bulls. Geo. B. Armstrong, Teeswater, Ont.

Sherlock-Manning

Canada's Biggest Piano Value THE SHERLOCK - MANNING PIANO GO.

#### **Ouestions and Answers.** Miscellaneous.

Corn Queries.

I have several acres of sod land that I have manured during the winter and am going to plough the manure under as soon as possible in the spring and plant to corn, and as I have a lot of twitch grass am thinking of planting in check rows three feet each way, planting with a hand

1. How many kernels should I plant in each hill?

2. Would I be likely to get as good crop as I would if planted closer together, say three feet by 18 inches?

3. Would commercial fertilizer injure the young sprouts if dropped directly on the top of the hill immediately after H. J. C. planting?

Ans.-1. If the seed tests well four should be enough. Some plant only three.

2. Yes, on weedy land.

3. Put the commercial fertilizer on shortly before planting and cultivate in.

#### Piping Spring Water — Anchoring Fence Posts.

I have a spring flowing to my barn through 600 feet of on one-inch pipe. It is choked somewhere in the upper section with rust. If I put three-quarter or half-inch pipe from the spring to about the centre and run it to the inch pipe, will it give satisfaction?

2. Will filling in around gate or anchor

posts with cement prevent heaving by frost or strain of wire? How deep should posts be put in? What thickness of cement should be put around the posts?

3. How many cubic feet of good timothy hay are there in a ton? The hay has been well settled.

Ans.—1. It depends on the amount of pressure from the spring. We believe you would have better results by putting the larger pipe first and the smaller last, if you desire to have two sizes of pipe through which to run the

2. Filling in around the posts with stone or cement will undoubtedly aid in holding them solid. The depth at which the posts should be placed will depend considerably on the nature of the land and the length of the wire to be attached to it. Anchor posts should be down about 5 feet, and six or eight inches of cement put around them should hold them in place.

3. It is generally considered that about 450 cubic feet of well settled hay

#### Lawn Rolling and Berry Planting.

1. I seeded lawn last spring and got a fine catch, used : mixture which you recommended. What time of the year would rolling a lawn give the best results? Any other suggestions in the way of improving the lawn will be much appreciated. While it looks quite level, it does not seem very smooth when running the mower over it. It was just graded before seeding.

2. Have an old strawberry bed which is a mass of weeds, mostly couch grass I believe. What would you suggest using the ground for this coming summer? Soil is sandy loam, clay subsoil

3. What style roof is considered best for a hen house? What height walls and what kind of floor? What would you think of a concrete floor, said floor to be about a foot above the ground? Ground is very level so would likely be damp. 4. Give a few pointers on setting

out raspberries, filling in, etc. J.B. Ans. -1. Roll with a heavy roller fairly early this spring or before the land gets too dry after a rain.

If you can work the twitch out early in the season why not plant to potatoes:

3. Either a shanty or double pitch roof is all right according to circumstances. Make the height to suit your convenience but, of course, it does not require to be higher than that height at which one an move about in it with ease. A concrete floor is all right.

1. Prepare the soil well. Manure beavily. Plant in rows 6 to 8 teet apart and from 3 to 1 feet apart in the rows. Put it as early as possible and cut back

Ewe has Discharge From Nostrils. One of my ewes has difficulty in breathing and there is a discharge from her nostrils. She has been in this condition for over a month.

2. Will green cedar boughs fed to sheep kill the ticks on them? C. G.

Ans.—If the sheep was suffering from catarrh there would be a discharge from the nostrils, a cough, and the eyes and lips would be sometimes gummed together with a yellow secretion. The patient becomes dull and uneasy. Keep the sheep in well ventilated quarters. give 4 to 6 ounces of raw linseed oil and steam the nostrils. If the appetite is lost, drench with boiled flax seed or milk and eggs. Place one dram of nitrate of potash well back on the tongue four times daily. Grubs in the head will cause the patient to become dull and uneasy and there will be a discharge from the nostrils. We believe that your ewe has catarrh or a bad cold and keeping her in comfortable quarters and applying the treatment above mentioned will bring relief.

2. We cannot see how the cedar boughs would destroy the ticks, and besides the cedar leaves or needles would get into the wool.

#### Pigs Dying Hens Eat Eggs Crops for Hog Feed.

I have a bunch of pigs which did splendidly until a week ago when they seemed to have difficulty in breathing Threee of them have since died. I gave them two doses of castor oil. What would cause this trouble?

2. What can I do to prevent hens eating their eggs? They are running loose in the barn and have a good supply of feed and grit.

3. What is a recipe for adding color to butter? 4. What are the best kinds of roots

to grow for hogs?

5. Would a mixture of oats, barley and peas be a good crop for feeding hogs. What quantity of each should be sown per acre?

Ans.—1. The symptoms are something like those of pneumonia, which may result from a severe cold or be brought on by over-exertion. Prevention is about the only thing that can be done. Comfortable, well-ventilated quarters and a light, sloppy diet are important. Daily doses of castor oil would help keep the bowels right. Treatment is not very

satisfactory.
2. This is a habit which is very difficult to remedy. Once the birds start eating their eggs, little can be done towards stopping them. Darkening the nests is believed to be about the best remedy.

3. There are special extracts on the market for coloring butter. The directions for using are on the bottle, the amount depending on the depth of color

4. Mangels or sugar-beet mangels are considered better than turnips 5. Oats, barley and peas make a very good mixture. A bushel of oats, one of

barley and 2 pecks could be sown.

#### Veterinary.

Ringbone.

Six-year-old horse has sets on his hind feet. They are quite large all around the leg between the fetlock and the coronet. He is lame in one foot.

Ans.—While we are not sure what you mean by "Sets on his hind feet", from the symptoms you give we conclude that they are ringbones. It will not be wise to interfere with the leg on which he is not lame. The ringbone of the lame leg should be fired and blistered by a veterinarian. This will probably remove the lameness, but no treatment will remove the largement.

It is very interesting to note the prices that have been paid for sugar beets throughout the American continent the past year. They are as follows: State of Utah, \$7.00; Idaho, \$7.00; Colorado, \$7.24; Ohio, \$7.27; California, \$7.55; Michicgan, \$8.16. All of the other States in the United States \$7.28 per too. In Canada the average price per ton paid for sugar beets in 1917 was \$8.78. will thus be noted that the Canadian price for beets was 57c. per ton higher than the highest price paid in the United States and \$1.73 per ton higher-than the lowest price paid in the United States for the past year.

BII

We can sur notice, limite Choice, High-Or from the follo Marquis Whes Q.A.C. No. 21 King Oats, O. Silver Hul Centen Also Highest ( and 7

Ask for our pri Turnips, Onions Corn and garden If in need of We can supply (
Linseed Oil Cal
Cake Meal, G.
Protein), Brai
Cracked Corr
Re-Cleaned Star Ground Screening Scrap, Poultry C Alfalfa Meal etc. We manufacture
"Good Luck" E
Feeds and can su
Try our Good I
Feed. It gives re

Write or Pho CRAMPSE Dovercourt Road

Day Junction 314

Green Mountain Seed J lat prize in field competities the best potato growing of Delaware variety, choice bag, sacks 10c each; to be ames Milloy, Hilleburg Sta., C.P.R 1866

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BIRD & SON

Head Office, Hamilton, Ont.

WAREHOUSES: -- Montreal, Toronto, Winnipeg, Calgary, Edmonton, St. John

The Largest Manufacturers of Roofings, Wall Board, and Roofing Felts in Canada

We can supply, on short notice, limited quantities of Choice, High-Quality Field Grains from the following varieties: Marquis Wheat, Goose Wheat, Q.A.C. No. 21 Barley, Bunker King Oats, O.A.C. No. 72 Oats, Silver Hull Buckwheat Centennial Peas Also Highest Grades of Clovers and Timothy

Ask for our prices on Mangels, Turnips, Onions, Potatoes, Beets, Corn and garden seeds of all kinds. If in need of feeds, write us. We can supply Cotton Seed Meal, Linseed Oil Cake Meal, Corn Oil Cake Meal, Corn Oil Cake Meal, Gluten Feed (23% Protein), Bran, Shorts, Corn, Cracked Corn, Corn Meal, Re-Cleaned Standard Screenings, Ground Screenings, Beef and Bone Scrap, Poultry Grit, Oyster Shell, Alfalfa Meal etc.

We manufacture the well-known
"Good Luck" Brands of Poultry
Feeds and can supply any quantity.
Try our Good Luck Baby Chick
Feed. It gives results.

Long-Distance Phone:
Day Junction 314 Night Junction 4534 Write or Phone for Prices.

CRAMPSEY & KELLY Dovercourt Road, Toronto, Ont.

Green Mountain Seed Potatoes for Sale. Won in prize in field competition in 1917. Grown in the best potato growing district in Ontario. Also Delaware variety, choice sample. Price \$2.50 per bas, sacks 10c each: to be shipped in April. mee Milloy, R.R. No. 1, Erin, Ont-Hillsburg Sta., C.P.R. Caledon Phone.

A farmer near Durham, Ont., realised \$2,500 for the seed from 15 acres of sweet clover. Another near Newmarket got \$600 for the seed from less than five acres. But that isn't all that they got. A big lot of good feed, some splendid pasture, and a great big access of fertility in their soil. Sweet clover is coming into its own, the place intended for it by Providence. Just now we must have bigger crops of feed, we must re-build our soil, and do it with less expense and labor than is possible by old methods. We are offering a limited quantity of our own select strain of Yellow Sweet Clover, and recommend it as possessing splendid wealth of foliage, superb quality of hay, finer, more succulent and higher in food values than the common White Blossom. It is a lower plant and therefore after from damner to the second crop, through cutting the first crop too low. Canadian Abotrea casts a little bit more per bushel but less per acre, for its big and rapid germination means that 10 lbs. to 12 lbs, will seed an acre, while with common white clover 20 to 25 lbs, are recommended. Write us, placing your order at once. Prices are as follows:

Note: Grades No. 2 and 3 contain small amounts of Alsike. For growing seed we recommend our grade No. 1. Address:—

CANADIAN ALBOTREA CLOVER COMPANY, LIMITED

Shipping office and warehouse, Listowel, Ontario

## NORTHERN ONTARIO

Millions of acres of virgin soil, obtainable at 50c, an acre in some districts—in others, free—are calling for caltivation.

Thousands of farmers have responded to the call of this fertile country and are being made comfortable and rich. Here, right at the door of Old Ontario, a home awaits you.

For full particulars as to terms, regulations and settlers' rates, write to:

M. A. MACDONELL, Director of Colonization, Parliament Buildings, Toronto, Ont. HON. G. H. PERGUSON, Minister of Lands, Porcets and Mines.

#### LIFT YOUR CORNS OFF WITH FINGERS

Tells How to Loosen a Tender Corn or Callus so it Lifts Out Without Pain.

A noted Cincinnati chemist discovered a new ether compound and called it Freezone, and it now can be had in tiny bottles as hereshown for a few

cents from any drug store. You simply apply a few drops of Freezone upon a tender corn or painful callus and instantly the soreness disappears, then shortly you will find the corn or callus so loose that you can just lift it off with the fingers.

No pain, not a bit of sore-ness, either when applying Freezone or afterward, and it doesn't even irritate the skin.

Hard corns, soft corns, or corns between the toes, also toughened calluses, just shrivel up and lift off so easy. It is wonderful! Seems magical it works like a charm! Your druggist has Freezone. Ask him!



SteelWheels Made to Fit Your Old or NewWagon



Butterio!

Now is the time to place your order for a set of "COOKE" Steel Wheels. They are giving universal satisfaction in every province in the Dominion. The cost is small, and as a labor saver they are unexcelled. A set of our wheels will make a new wagon out of your

we quote price delivered to your nearest station, no matter where you live! The Cooke Metal Wheel Company, 19 West St., Orillia, Ontario



PERFECTION Seed & Grain Separator (Patented 1901)

The best and lates nill for Cleaning and Grading at kinds of Seed and Grain.

See acarest Agent or write for Catalogue to THE TEMPLIN MFG. CO., FERGUS, ONTARIS

#### **BEESWAX** WANTED

WE PAY THE HIGHEST MARKET PRICE IN CASH OR TRADE

The Tillson Company, Ltd.

**IMPROVED** 

## O.A.C. No. 72 Oats

Grown from strains of selected and carefully graded seed. Guaranteed true to variety. Free from smut and noxious weed seeds. Government germination test 100%. Price \$1.50 per bus. Small, white field beans, extra quality, \$10.00 per bus. Samples on request. Sacks free. Freight prepaid on orders of \$100 or more. If our grain is not as represented same may be returned at our expense.

Ruthven Bros., R.R. No. 2, Alliston, Ont.

When writing please mention this paper

# Farm Labor is Now Available



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## How to get it. Please act quickly.

The Ontario Government is keenly alive to the pressing need for labor on the farm — we realize that "farm labor is the keystone of greater production." If you need farm labor this season we urge you to fill out the Application Form below, clearly and carefully. To save time mail it to the nearest Ontario Government Employment Office (see list of addresses below), or to the office of the District Representative of the Department of Agriculture in your OWN COUNTY. Please be sure to state the kind of help you want, the wages you are willing to pay, the length of time the help is required, and the date on which you will want such help.

# Get your application in early and make sure of getting the pick of the help.

#### 15,000 Boys and Youths Coming

We are conducting a vigorous "S. O. S." ("Soldiers of the Soil") campaign which will reach every school boy, every high school boy and the working boys in factories and offices, the drivers for retail stores, etc., etc., of the ages from 15 to 19.

The mark set is 15,000, and there is every prospect that this number will be reached.

Already 8,863 badges have been distributed to boys for last year's farm work. A large

proportion of these boys will be again available for farm work this year and, of course, they have gained quite a bit of experience. Farmers who had these boys last year know their value.

#### 7,500 Men Being Enrolled

The Ontario Government is also using every possible means to secure the largest available supply of men for Ontario farm work. The number expected is 7,500, and a large number of these men will be available for the whole season,

from seeding to harvest. Strong efforts are being made to secure men with previous farm experience. Men will be recruited from factories and warehouses—from amongst teamsters and artisans.

Considering that a good third of our city and town population has been brought up in the country, we shall be surprised if we do not raisefully 7,500 men to help out the Ontario farmers this year, and such men readily take up ordinary farm work again.

#### Women Workers Available

Last year we enrolled between 1,200 and 1,300 women and girls for work on fruit and truck farms. It is believed that fully 5,000 women will offer their services this year. These are mostly strong, willing women and girls—many have come from farms. Their employers appreciated them very highly last season, in fact the Fruit Growers' Association of Ontario has already arranged for a much larger number of these women, so satisfactory were their services last year.

A number of the strongest and most experienced of this woman-help is anxious to work on mixed farms for the coming season.

These girls prefer, if possible, to go out to communities in groups of five to ten and they board themselves. Last season there were many instances where the girls assisted considerably in house work during bad weather.

#### If You Want Woman-Labor

do NOT use this Application Form but write to the Director of Women's Farm Work, Ontario Government Employment Bureau, 15 King St., East, Toronto.

## Why Not To-day?

If you can use more farm labor this spring, fill in this Application Form, clip it out and mail it to the nearest Ontario Government Employment Office as follows:

- 15 King Street East, Toronto.
- 139 Queen Street, Ottawa. 3-85 James St., North, Hamilton.
- 108 Dundas Street, London. 300 Victoria Avenue, Fort William.
- 193 Park Street, Port Arthur.

or to the Office of the District Representative of the Department of Agriculture in your own

The most experienced farm hands go to the farmers paying the best wages.

All you need to do now is to fill out the Form, state the best wages you can afford, and send the Form in as directed.

Do not say we canno get you help until you give us the opportunity.

## APPLICATION FOR FARM HELP

Ontario Government Public Employment Bureaux



Trades and Labor Branch
Department of
Public Works

Fill in your telephone number here or the nearest neighbor's telephone number					
Signature of Farmer	Post Office		County		
How to reach place of e	mployment	Acres in farm	What kind of farming practised Mixed Fruit Dairy		

Single Men.	Married Man and Wife.	
Experienced (plough, milk, etc.)	Experienced	
Partly experienced (handle horses)	Partly experienced	
nexperienced	Inexperienced	
3oys (15–19)	Wages-If wife works in your house	
WAGES-Including Board and Lodging \$	If separate cottage is provided	

All engagements subject to two weeks' trial with wages.

Ontario Government Public Employment Bureaux. Form 11.

## Ontario Department of Agriculture

Parliament Buildings, Toronto

Sir WM. H. HEARST, Minister of Agriculture DR. G. C. CREELMAN
Commissioner of Agriculture